

Agriculture & Engineering for a Healthier Life

INTERNATIONAL CONFERENCE OF AGRICULTURAL ENGINEERING

CIGR-AgEng2012

Valencia Conference Centre
July 8-12, 2012. Valencia, Spain.

Final Programme



ORGANIZERS



SUPPORT



<http://cigr.ageng2012.org>

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WELCOME TO CIGR-AGENG 2012



On behalf of the European Society of Agricultural Engineers (EurAgEng), the International Commission of Agricultural and Biosystems Engineering (CIGR), and the Spanish Society of Agroingeniería (SEAgEng), welcome to the International Conference of Agricultural Engineering CIGR-AgEng2012 here in Valencia, Spain on July 8-12, 2012.

EurAgEng and CIGR celebrate this joint International Conference on Agricultural Engineering in 2012. In addition, a Special Parallel Conference on mechanisation and post-harvest technology in developing countries organized by UNIDO and FAO forms a part of the Congress. The Conference covers emerging research and new engineering solutions for food production and rural activities, as a means to enhance human well-being and promote social benefits. New concerns include methods of agricultural, livestock and forestry production, and the preservation of natural resources and landscape by applying modern engineering concepts. Healthier production systems need to encompass higher social and economic benefits.

The CIGR-AgEng2012 Conference is aimed at academia, industry, producers, manufacturers and service providers from all over the world for discussion about novel approaches to integrate agriculture and engineering for enhancing the quality and expectancy of life. PhD students, Delegates of CIGR and EurAgEng, Representatives of Developing Countries and Industry are especially encouraged to participate in CIGR-AgEng 2012 Conference.

I am looking forward to meeting you in July for CIGR-AgEng2012 in Valencia, Spain.

Florentino Juste
Past-President EurAgEng
President of CIGR-AgEng2012 Conference



AgEng2012 takes place in Valencia, Spain, one of the most famous cities in Europe, and known as a leading trading place since the new world was discovered. Valencia is now a university city and capital of a region with various scientific institutions. Participants will meet in a modern conference venue, adjacent to a historic city with many tourist attractions and in a region with diverse agriculture.

Diverse agriculture is characteristic of Europe too. A wide variety of advanced technologies are needed to cope with the economic conditions of farmers and with the requirements of society in industrialized countries. These requirements aim to save precious resources and produce environmentally friendly and healthy food. As technology is part of farming, engineering must contribute to the development of advanced and efficient agricultural practices.

The conference offers a wide range of topics for presentations on agricultural and biosystems engineering subjects and there will be time for discussion, for initiating collaborations and for developing ideas for innovations. EurAgEng working groups, which will be organized as part of the conference, will give additional opportunities for deeper discussion on specific fields of interest and for initiation of joint activities between European research institutions and industries.

Peter Schulze Lammers
EurAgEng President 2010-2012



The mission of CIGR is to serve the needs of humanity world-wide, by fostering mutual understanding, continuous improvement and rationalization of sustainable biological production systems. CIGR seeks to improve the quality of life for all while protecting the environment through the application and advancement of engineering and science.

Since its foundation in 1930, a primary goal of CIGR has been to foster international cooperation. The 2012 International Conference of Agricultural Engineering will play a fundamental role in support of this goal.

This conference provides a forum for engineers, scientists and associated professionals to exchange knowledge, information and experience related to new developments in agriculture and biosystems. More importantly, it provides a networking platform for professionals to establish long term working relationships that result in improvements in the quality of life of those we serve, and which support sustainability of biological production systems and related industries.

The CIGR Presidium would like to recognize EurAgEng, the organizing committee and the participants in this conference for their hard work and willingness to share knowledge and experience to the benefit of all.

Fedor S. Zazueta
President, CIGR

KEYNOTE SPEAKERS GENERAL SESSIONS

MONDAY



Christopher WATHES

Towards livestock production in the 21st Century: a perfect storm averted?

Date: Monday 9th July 9:00-10:00
Venue: Valencia Conference Centre (VCC)
Location: Auditorio1

Special Professor in the School of Life and Environmental Sciences, Nottingham, Head of Bioengineering Division and then Director of Science, Silsoe Research Institute (UK) and Professor of Animal Welfare, at The Royal Veterinary College, UK.

TUESDAY



John F. REID

Current and future applications of robotics and automation to agriculture

Date: Tuesday 10th July 8:00 - 9:00
Venue: Valencia Conference Centre (VCC)
Location: Auditorio 1

Dr. John F. Reid is Director, Product Technology and Innovation at the Moline Technology Innovation Centre (MTIC), John Deere. Dr. Reid received his BS ('80) and MS ('82) from Virginia Tech in Agricultural Engineering and his doctorate ('87) from Texas A&M in Agricultural Engineering.

WEDNESDAY



Geoffrey C. MREMA

The role of technology in the developing countries

Date: Wednesday 11th July 8:00 - 9:00
Venue: Valencia Conference Centre (VCC)
Location: Auditorio 1

Professor Geoffrey C. Mrema, from Tanzania, holds a B.Sc. degree in Mechanical Engineering (Hons) from the University of Nairobi; M.Sc. and PhD in Agricultural Engineering from the University of Newcastle-upon-Tyne, UK, and University College, Dublin, Ireland respectively. In February 2005, Dr. Mrema was appointed FAO's Sub-Regional Representative for Southern and Eastern Africa based in Harare, Zimbabwe. In 2006 he returned to the FAO headquarters as Director of the Rural Infrastructure and Agro-Industries Division (AGS), until his retirement in 2011. He is now based at the Department of Agricultural Engineering and Land Planning of SUA where in addition to lecturing and research, he undertakes consultancy missions for international and national agencies.

TECHNICAL SPEAKERS

MONDAY

SPECIAL PARALLEL CONFERENCE-02: First international symposium on computational fluid dynamics (CFD) applications in agriculture (ISHS working group on CFD, CIGR technical section II and ASABE committee SE-303) SESSION 111 FOOD ENGINEERING AND PROCESSING



In-Bok Lee

Date:
Monday 9th,
10:20-11:55
Venue:
Valencia Conference Centre
(VCC)
Location: Room 2

Mr. In-Bok Lee is currently Chair of Rural Systems Engineering Department, College of Agriculture and Life Sciences of Seoul National

University (SNU). Other responsibilities At present, he is Vice President of Korea Society of Agricultural Engineers (KSAE), Chair of the CFD Working Group in International Society for Horticultural Science (ISHS), Editorial member of Biosystems Engineering, and also member of professional and international organizations like ASAE and CIGR.

His laboratory (Aero-Environmental & Energy Engineering Laboratory -A3EL) works on aerodynamics and energy engineering in the agricultural field, focusing on three major fields: 1) environmental control (especially ventilation) of agricultural buildings such as greenhouses and livestock houses, 2) atmospheric dispersions of aerosol, airborne disease, and gas (odor), and 3) renewable energy and energy saving technology.

To this date, he and his team have published 45 (SCI) International journals and 31 Domestic journals publications.

SPECIAL PARALLEL CONFERENCE-07: Silos and granular materials (SIGMA) SESSION 112 SILOS LOADING



Alan Roberts

Date:
Monday 9th July,
10:20-11:55
Venue:
Valencia Conference Centre
(VCC)
Location: Room 3

In his 50-year career, Alan Roberts has published seminal technical papers and combined a glittering academic career with practical industry problem-solving. However, despite his retirement, Alan has maintained a brisk pace of work. His research interests continue, while he teaches short courses in Australia, Canada and the US.

SPECIAL PARALLEL CONFERENCE-03: IV INTERNATIONAL WORKSHOP ON COMPUTER IMAGE ANALYSIS IN AGRICULTURE SESSION 114 PLANT INSPECTION



Bosoon Park

Date:
Monday 9th,
10:20-11:55
Venue:
Valencia Conference Centre
(VCC)
Location: Room 8+9

Dr. Bosoon Park is a Lead Scientist at Richard B. Russell Research Center, U.S. Department of Agriculture, Agricultural Research Service in Athens, Ga. He is the author and co-author over 221 articles including patents, book chapters, peer-reviewed jour-

nals, and proceedings on bio-instrumentation, bio-imaging as well as nanotechnology for food safety and quality. He is an Associate Editor of Transactions of the ASABE and Applied Engineering in Agriculture, and serves on Editorial Board on journal of Sensing and Instrumentation for Food Quality and Safety. He holds several honorary and scientific memberships including Sigma Xi, Alpha Epsilon, ASABE, SPIE, ACS, AAAS, IFAC, and CNIR. Currently, he holds Adjunct Faculty at the University of Georgia.

SPECIAL PARALLEL CONFERENCE-06: Applications of smart sensors and wireless sensor networks (WSN) in PLF
SESSION 151 Wireless Communication in Agriculture



Vahid Tarokh

Date:
Monday 9th,
15:25-15:55
Venue:
Valencia Conference Centre
(VCC)
Location: Room 5

Vahid Tarokh received a Ph.D. degree in Electrical Engineering in 1995. He worked at AT&T Labs-Research and AT&T Wireless Services until 2000 where he was (in chronological order) Senior Member of Technical Staff, Principal Member of Technical Staff and Head of Department of Wireless Communications and Signal Processing

TUESDAY

SPECIAL PARALLEL CONFERENCE-05: The Ninth International Livestock Environment Symposium (ILES IX)

SESSION 203 OVERVIEW OF MEASUREMENT AND VERIFICATION PROTOCOLS IN LIVESTOCK ENVIRONMENTS

Peter Engel



Date:
Tuesday 10th July,
8:55-10:30
Venue:
Valencia Conference Centre
(VCC)
Location: Auditorio 2

Mr. Peter Engel has more than 17 years of professional experience within the environmental sector. In 2011 he was appointed as head of the international VERA secretariat. The secretariat is hosted in Denmark at the Danish Standard Foundation on behalf of the Danish Environmental Protection Agency. Mr. Engel has worked with environmental technology throughout his entire career both on a theoretical and a practical level.

Nico W.M. Oginck



Date:
Tuesday 10th,
8:55-10:30
Venue:
Valencia Conference Centre
(VCC)
Location: Auditorio 2

Nico Oginck is researcher at Livestock Research of Wageningen UR. His expertise and research themes are related to livestock and environment issues, with a focus on measuring emissions from livestock operations and understanding underlying processes in the main animal categories. He is engaged in developing and eva-

luating new mitigation methods for ammonia, odour and fine dust emissions. During the last 3 years he has been leader of an extensive research program to provide practical mitigation options for fine dust emissions from poultry farms.



Hongwei Xin

Date:

Tuesday 10th July,
8:55-10:30

Venue:

Valencia Conference Centre
(VCC)

Location: Auditorio 2

Dr. Xin is a professor in the Departments of Agricultural and Biosystems Engineering (ABE) and Animal Science at Iowa State University, ABE Associate Chair for Research, and director of the Egg Industry Center located at ISU.

Dr. Geuzaine is currently responsible for the development of business, the set-up of new research projects and partnerships, the definition of development roadmaps and the management as well as coaching of team leaders. He is member of the management committee. He also chairs the Industrial Programme Committee at ERCOFTAC.

SPECIAL PARALLEL CONFERENCE-02: FIRST INTERNATIONAL SYMPOSIUM ON COMPUTATIONAL FLUID DYNAMICS (CFD) APPLICATIONS IN AGRICULTURE

SESSION 209 INDOOR AEROLICS I

Dr. Philippe Geuzaine

Date:

Tuesday 10th,
8:55-10:30

Venue:

Valencia Conference Centre
(VCC)

Location: Room 2



"Establishing quality and thrust in CFD through ER-

COFTAC".

Dr. Philippe Geuzaine is a Research and Technology Manager at Cenaero, a Belgian private research center. He received his B.S. and Ph.D. from the University of Liège, Belgium. Before joining Cenaero in 2003 as a CFD-Multiphysics Group Leader, Dr. Geuzaine has been a Postdoctoral Research Associate at the University of Colorado at Boulder, USA.

With a strong background in computational fluid dynamics,

MEETINGS

SATURDAY

CIGR - Presidium Meeting

Date: Saturday 7th July 9:30 - 13:00
Venue: Hotel Melia Meeting 2

CIGR - Executive Board Meeting

Date: Saturday 7th July 15:00 - 18:00
Venue: Hotel Melia Meeting 2

SUNDAY

CIGR - Technical Board Meeting

Date: Sunday 8th July 9:00 - 11:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 02

EurAgEng - Past President Meeting

Date: Sunday 8th July 9:00 - 11:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 04

Special Meeting: Jaime Ortiz-Canavate

Date: Sunday 8th July 11:30 - 13:00
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Room : Salon actos ETSIAMN

CIGR SECTION MEETINGS

CIGR - Section 1: Land and Water

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 02
Coordinator: Guanhua Huang

CIGR - Section 2: Structures and Environment

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 03
Coordinator: Thomas Banhazi

CIGR - Section 3: Plant production

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 05
Coordinator: John K. Schueller

CIGR - Section 4: Energy in Agriculture

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 06
Coordinator: Janusz Piechocki

CIGR - Section 5: System Management

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 07
Coordinator: Claus Grøn Sørensen

CIGR - Section 6: Bioprocesses

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 08
Coordinator: Umezuruike Linus Opara

CIGR - Section 7: Information Technology

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 09
Coordinator: Seishi Ninomiya

EurAgEng Council Meeting

Date: Sunday 8th July 14:00 - 16:30
Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)
Location: A. 1. 04

EurAgEng Biosystems Engineering Editorial Board Meeting

Date: Sunday 8th July 16:30 - 18:30

Venue: Polytechnic University of Valencia (UPV) (Edificio 3P)

Location: A. 1. 10

Coordinator: Bill Day

CIGR Journal meeting

Date: Sunday 8th July 16:30-18:30

Venue: Polytechnic University of València (UPV) (Edificio 3P)

Locación: A.1.11

MONDAY

CIGR General Assembly

Date: Monday 9th July 18:30 - 19:30

Venue: Valencia Conference Centre (VCC)

Location: Auditorio 2

ENGAGE: General Assembly

Date: Monday 9th July 18:30 - 19:30

Venue: Valencia Conference Centre (VCC)

Location: Room 2

Coordinator: Reiner Brunsch

ENGAGE is the strategic arm of EurAgEng. Members come from Agricultural and Biosystems Engineering Institutions all over Europe. It aims to raise the profile of this field in Brussels and beyond and facilitate cooperation on research projects etc.

EurAgEng - Eastern European Meeting

Date: Monday 9th July 19:30 - 20:30

Venue: Valencia Conference Center (VCC)

Location: Room 4

Coordinator EurAgEng: Peter Schulze Lammers

Coordinator Eastern Europe: László Fenyvesi

Delegates from Eastern Europe are invited to meet the EurAgEng Executive to find out more about the activities of EurAgEng, the benefits of joining EurAgEng and ways in which national societies participate in the organization.

TUESDAY

EurAgEng - ASABE BREAKFAST

Date: Tuesday 10th July 7:00 - 8:00

Venue: Hotel Solorolla

A brief opportunity for ASABE colleagues to meet members of the EurAgEng Executive and discuss common issues and future cooperation.

EurAgEng Open Meeting - Presidential handover

Date: Tuesday 10th July 14:00 - 15:00

Venue: Valencia Conference Centre (VCC)

Location: Auditorio 2

All delegates are welcome to attend. There will be a short review of EurAgEng activities and Professor Peter Schulze Lammers will hand over the two year presidential term of office to Robert Kaufmann, AGROSCOPE, Tänikon, Switzerland

WEDNESDAY

EurAgEng Working Group Chair's Meeting

Date: Wednesday 11th July 14:00 – 16:00

Venue: Valencia Conference Centre (VCC)

Location: Room 1

Working Group chairmen are invited to discuss progress made within their groups and to propose ways in which to take their work forward and maintain communication between conferences.

AgEng 2014 - Conference Exchange

Date: Wednesday 11th July 18:00 - 19:00

Venue: Valencia Conference Centre (VCC)

Location: Auditorio 2

Planning is already underway for EurAgEng2014 and this meeting will enable 2012 and 2014 conference organizers and participants to exchange experiences and ideas for future conferences.

CIGR WORKING GROUPS

MONDAY

CIGR - Animal Housing in Hot Climate Working Group

Date: Monday 9th July 14:30 - 15:25
Venue: Valencia Conference Center (VCC)
Location: Room 1
Coordinator: Mohamed Hatem

CIGR - Logistics Working Group

Date: Monday 9th July 14:30 - 15:25
Venue: Valencia Conference Center (VCC)
Location: Room 3
Coordinator: Remegio Berruto

WEDNESDAY

CIGR - Image Analysis for Agricultural Products and Processes

Date: Wednesday 11th July 12:15 - 13:00
Venue: Valencia Conference Center (VCC)
Location: Room 8+9
Coordinator: Enrique Moltó

EURAGENG WORKING GROUPS

MONDAY

AP: ANIMAL PRODUCTION TECHNOLOGY

AP06: Innovative technologies for dairy farming

Date: Monday 14:30 – 15:25
Venue: Valencia Conference Center (VCC)
Location: Auditorio 3A
Coordinator: Jan Harms

PM: POWER AND MACHINERY

PM23: Sustainable Energy
Date: Monday 14:30-15:25
Venue: Valencia Conference Centre (VCC)
Location: Multipurpose 1A
Coordinator: Franz Handler

IT: INFORMATION TECHNOLOGY, AUTOMATION AND PRECISION FARMING

IT16: Information technology

Date: Monday 14:30 - 15:25
Venue: Valencia Conference Center (VCC)
Location: Room 6+7
Coordinator: Gilbert Grenier

PA07: Precision agriculture

Date: Monday 14:30-15:25
Venue: Valencia Conference Center (VCC)
Location: Multipurpose IB
Coordinator: Stefane Böttinger

PF: POST HARVEST, FOOD AND PROCESS

ENGINEERING

PF: Post Harvest, Food and Process Engineering

PH03: Post – harvest technology

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Room 8+9

Coordinator: Pilar Barreiro

Venue: Valencia Conference Center (VCC)

Location: Room 4

Coordinator: Gösta Gustafsson

SE: STRUCTURES AND ENVIRONMENTAL TECHNOLOGIES

SE15: Farm building structures & environment

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Room 4

Coordinator: Vacant

SE25: Wastes engineering

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Room 2

Coordinator: Vacant

SE28: Rural buildings & landscape

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Room 5

Coordinator: Patrizia Tassinari

SW: SOIL AND WATER ENGINEERING

SW20: Soil and Water

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Auditorio 2

Coordinator: Nunzio Romano

SPC-04: 5th Automation Technology for Off-Road equipment Conference

AEO9: Intelligent Automation

Date: Monday 14:30-15:25

Venue: Valencia Conference Center (VCC)

Location: Multipurpose 1C

Coordinator: Victor Alchanatis

SE: STRUCTURES AND ENVIRONMENTAL TECHNOLOGIES

SE14: Air quality in animal houses

Date: Monday 9th July 18:30 - 19:30

TUESDAY

PM: POWER AND MACHINERY

PM08: Sustainable Crop Protection

Date: Tuesday 12:15 - 13:00

Venue: Valencia Conference Center (VCC)

Location: Auditorio 1

Coordinator: Paolo Balsari

WEDNESDAY

RD: RURAL DEVELOPMENT

EurAgEng working Group Chair meeting

Date: Wednesday 14:00 - 15:00

Venue: Valencia Conference Center (VCC)

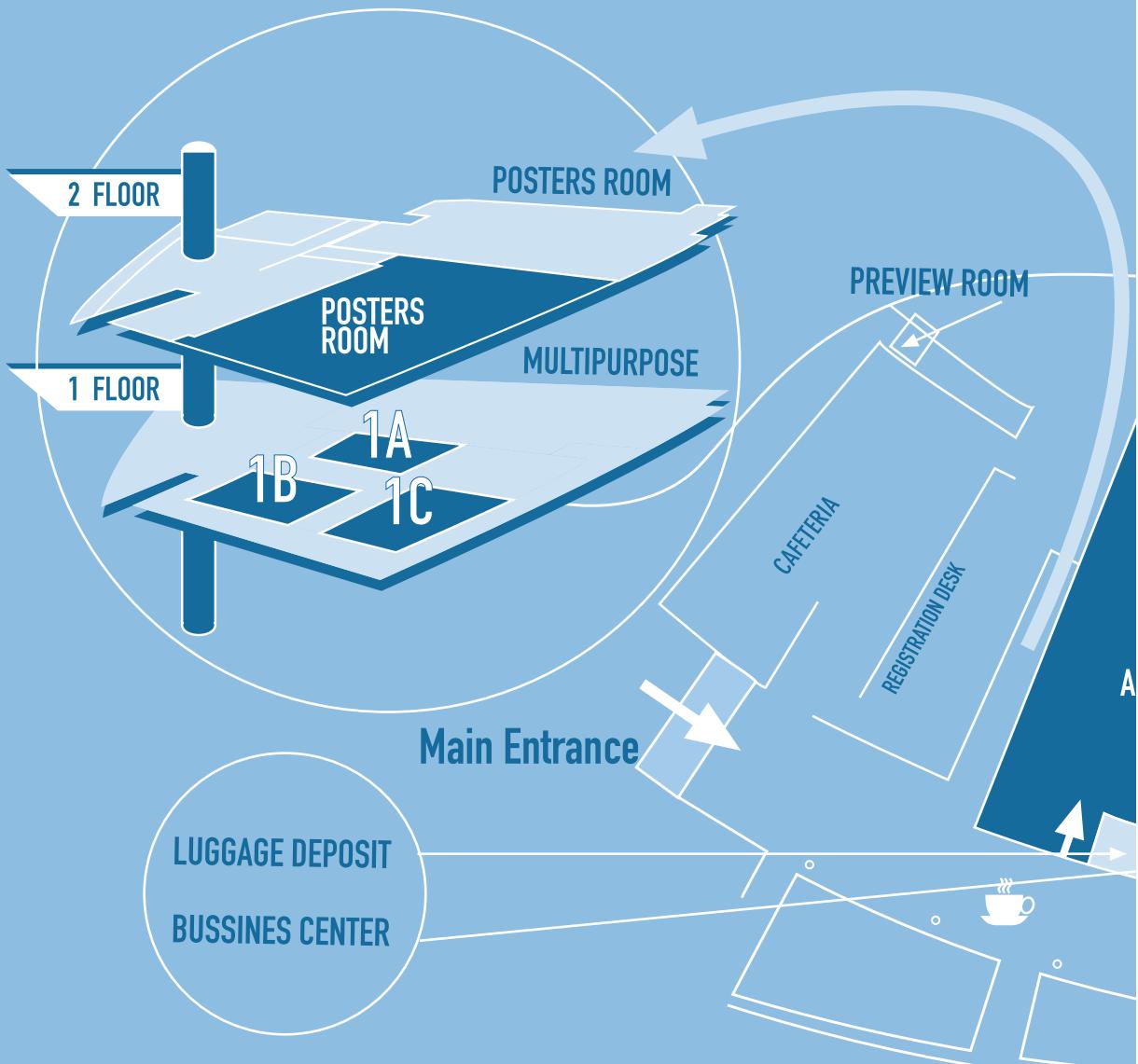
Location: Room 1

Coordinator:

INTERNATIONAL CONFERENCE OF AGRICULTURAL ENGINEERING

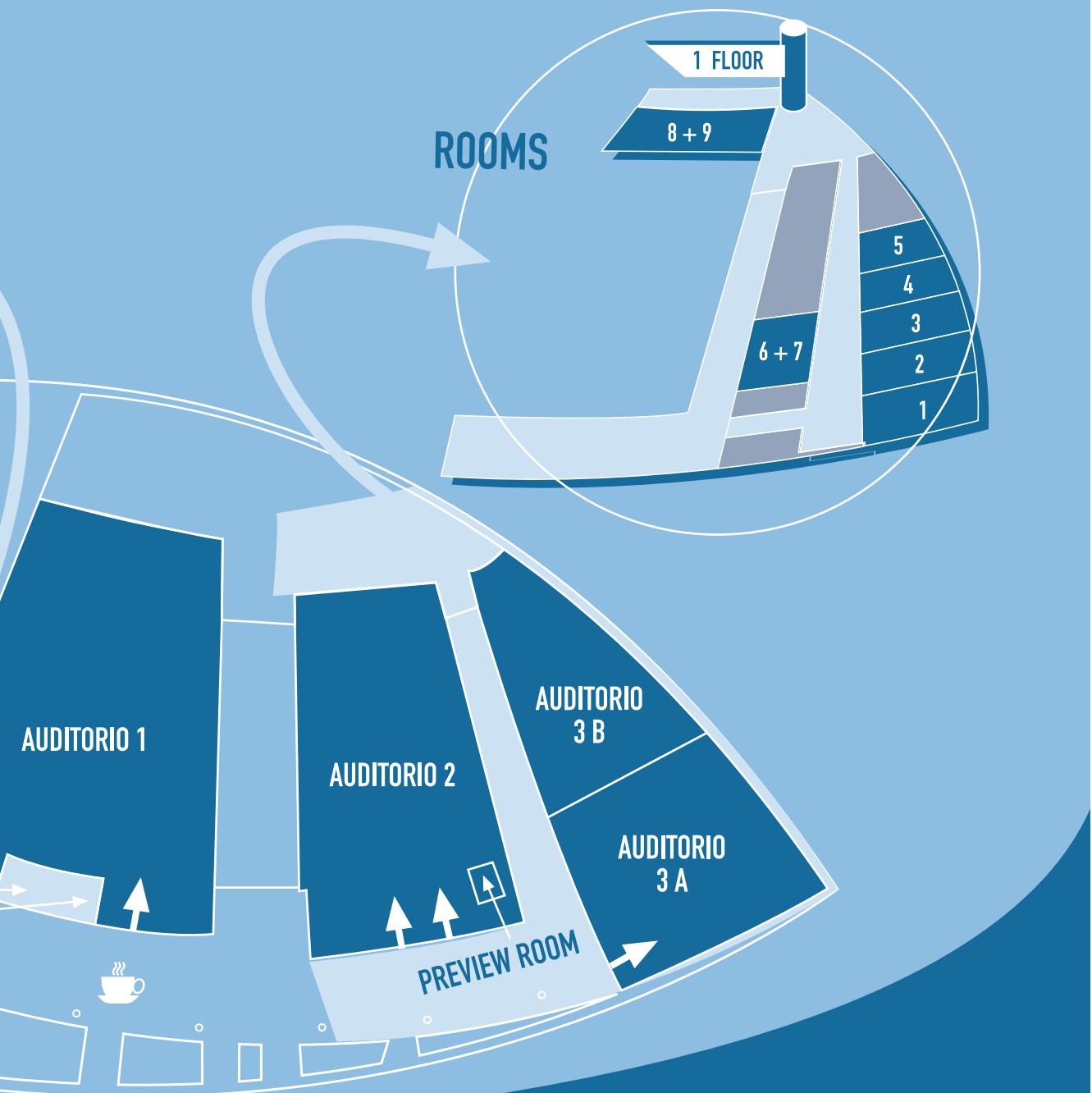
CIGR-AgEng2012

floor plan



Valencia Conference Centre

July 8-12, 2012. Valencia, Spain.



CONGRESS AT A GLANCE

Time	Hotel Melia Valencia	Polytechnic University of Valencia (UPV)	
	SATURDAY July 7	SUNDAY July 8	
7,30-8,00			
8,00-8,30			
8,30-9,00			
9,00-9,30			
9,30-10,00			
10,00-10,30		CIGR - Technical Board Meeting	A. 1. 02
10,30-11,00		EurAgEng - Past-President Meeting	A. 1.04
11,00-11,30	CIGR - Presidium Meeting Melia Meeting 2		
11,30-12,00			
12,00-12,30		SPECIAL MEETING: Jaime Ortiz-Canavate Salon Actos ETSIAMN	
12,30-13,00			
13,00-13,30		LUNCH	
13,30-14,00	CIGR - Presidium Meeting LUNCH		
14,00-14,30		EurAgEng - Council Meeting	A.1.04
14,30-15,00		CIGR - Section Meetings	Room
15,00-15,30		S.1 Land & Water	A.1.02
15,30-16,00		S.2 Structures & Environment	A.1.03
16,00-16,30	CIGR - Executive Board Meeting Melia Meeting 2	S.3 Plant Production	A.1.05
16,30-17,00		S.4 Energy in Agriculture	A.1.06
17,00-17,30		S.5 System Management	A.1.07
17,30-18,00		S.6 Bioprocesses	A.1.08
18,00-18,30		S.7 Information Technology	A.1.09
18,30-19,00		Engurra-Biosystems Engineering Editorial Board	
19,00-19,30		A.1.10	
19,30-20,00		CIGR - Journal Meeting A. 1.	
20,00-20,30			
20,30-21,00		WELCOME RECEPTION + BUFFET Edificio 3A	

Time	Valencia Conference Centre (VCC)					
	SUNDAY July 8	MONDAY July 9	TUESDAY July 10	WEDNESDAY July 11	THURSDAY July 12	
7:30		REGISTRATION	REGISTRATION	REGISTRATION		
8:00						
8:30		OPENING CEREMONY KEYNOTE SPEAKER	KEYNOTE SPEAKER	KEYNOTE SPEAKER		
9:00						
9:30			ORAL SESSION (201 to 214)	ORAL SESSION (301 to 314)		
10:00		COFFEE BREAK				
10:30		ORAL SESSION (101 to 114)	COFFEE BREAK	COFFEE BREAK	AET - COFFEE	
11:00						
12:00		ORAL SESSION (115 to 128)	ORAL SESSION (215 to 228)	ORAL SESSION (315 to 328)	AET - Workshop	TECHNICAL TOURS (Concurrent Tours) Meeting point: Valencia Conference Centre (VCC)
12:30						
13:00		LUNCH	LUNCH	LUNCH		
13:30						
14:00		LUNCH				
14:30		POSTER SESSION (129 to 138)	POSTER SESSION (229 to 239) + EurAgEng Open Meeting	POSTER SESSION (329 to 338)	EurAgEng Working Group Chair's Meeting Sala 1	
15:00						
15:30			ORAL SESSION (240 to 253)	ORAL SESSION (339 to 352)		
16:00	REGISTRATION at VCC	ORAL SESSION (139 to 152)			AET - Workshop	LUNCH
16:30			COFFEE BREAK	CLOSING CEREMONY	AET - COFFEE	
17:00		COFFEE BREAK				
17:30		ORAL SESSION (153 to 165)	ORAL SESSION (254 to 267)	Spanish Wine		
18:00				AgEng2014 Conference Exchange		
18:30		The 52nd CIGR General Assembly (Auditorio 2)				
19:00						
19:30		Coffee EurAgEng - Eas- tern European Meeting Sala 4	CIGR & EurAgEng AWARD CEREMONY			
20:00						
20:30			CONFERENCE DINNER			

SCIENTIFIC PROGRAMME

MONDAY JULY 9

9:00-10:00 Christopher WATHES. Keynote Speaker General Session AUDITORIO 1

101 SESSION

10:20 -11:55
(PM): TRACTORS
Moderator: Jaime Ortiz-Cañavate
Location: AUDITORIO I

- 10:20 Introduction
- 10:25 C-1008 ACTIVE BOGIES, CHASSIS LEVELLING AND TRANSMISSION EFFICIENCY FOR A VEHICLE OPERATING IN ROUGH TERRAIN
Marti Comellas
Martí Comellas, Jordi Pijuan Cases, Joan Roca, Xavi Potau
- 10:40 C-1340 OPTIMIZATION OF A THREE POINT HITCH IN AN AGRICULTURAL TRACTOR
Giovanni Molari
Giovanni Molari, Michele Mattetti, Adriano Guarneri
- 10:55 C-1398 VEHICLE RIGID MOTION EFFECTS ON WHOLE BODY VIBRATION
Giovanni Molari
Giovanni Molari, Michele Mattetti, Matteo Badodi, Enrico Sedoni

- 11:10 C-1179 EXHAUST EMISSION CONTROL AND CO₂ REDUCTION ON COMBINES AND TRACTOR IMPLEMENT COMBINATIONS
Peter Eckert
Peter Eckert, Tobias Töpfer, Jörn Seede, Lars Henning
- 11:25 C-1603 NEW CLASSIFICATION OF TRACTORS ACCORDING TO THEIR ENERGY EFFICIENCY
Jaime Ortiz-Cañavate Puig
Miguel Angel Muñoz-garcía, Jaime Ortiz-Cañavate Puig, Jacinto Gil-Sierra, Jesus Casanova, Alvaro Valle
- 11:40 C-2129 DEVELOPMENT AND CHARACTERIZATION TESTS OF A SMALL HYDRAULIC-POWERED TRACTOR PROTOTYPE FOR USE IN EXTREME SLOPED VINEYARDS
Fabrizio Mazzetto
Fabrizio Mazzetto, Renato Vidoni, Carlo Bisaglia, Raimondo Gallo

102 SESSION

10:20 -11:55
(SW-SPC01): EVAPOTRANSPIRATION AND IRRIGATION-REQUIREMENTS
Moderator: Alfonso Dominguez
Location: AUDITORIO 2

- 10:20 Introduction
- 10:25 C-0834 SURFACE RENEWAL ESTIMATES OF SENSIBLE HEAT FLUX: OPTIMIZATION FOR BANANA AND GRAPEVINE SCRE-ENHOUSES
Josef Tanny
Yonathan Mekhmandarov, Moran Pirkner, Uri Dicken, Josef Tanny
- 10:40 C-0256 IMPACTS ON SOYBEAN SOIL WATER BALANCE AND YIELD DUE TO INCREASE IN TEMPERATURE AS SIMULATED BY CROPGRO
Rogerio Faria de Teixeira
Rogério Teixeira de Faria, José Renato Zanini, Luiz Carlos Pavani
- 10:55 C-1648 IMPLEMENTING THE DUAL CROP COEFFICIENT APPROACH USING THE SIMDUALKC MODEL FOR THE SUMMER MAIZE IN THE NORTH CHINA: MODEL CALIBRATION AND VALIDATION
Luis S. Pereira
Zhang Baozhong, Liu Yu, Xu Di, Zhao Nana, Ricardo D. Rosa, PaulaParedes, Luis S. Pereira,
- 11:10 C-0665 FORETO: NEW SOFTWARE FOR REFEREN-CE EVAPOTRANSPIRATION FORECAS-TING
Rocio Ballesteros Gonzalez
Rocio Ballesteros Gonzalez, Jose Fernando Ortega Alvarez, MiguelAngel Moreno Hidalgo

103 SESSION

10:20 -11:55
(SPC-05): FEEDING AND RESTING BEHAVIOR
Moderator: Knut Bøe
Location: AUDITORIO 3A

10:20	Introduction
10:25 C-0790	WATER INTAKE AND DRINKING BEHAVIOR OF PREGNANT SOWS Melanie Junge Melanie Junge; Daniel Herd; Dagmar Jezierny; Eva Gallmann; Thomas Jungbluth
10:40 C-0754	EFFECTS OF FEEDING REGIME ON FEEDING PATTERN AND BEHAVIOURS OF GROWING PIGS Jun Bao Jun Bao, Yun-long Kang, Xin-zhi Wang
10:55 C-0452	NATURAL BEHAVIOR OF THE ANIMAL WHEN EATING Manuel García Reyes Manuel García Reyes, Abraham Rojano
11:10 C-1602	PASSAGEWAY PREFERENCE TESTING FOR LAYING HENS Ana Paula De Assis Maia Ana Paula De Assis Maia; G. Tatiana Sales; Patricia Paulausky; Angela Renee Green; Daniella Jorge De Moura
11:25 C-0335	COMBINED STALL SYSTEMS FOR HEIFERS IN GROUPS ? A NEW CONCEPT Knut Egil Boe Knut Egil Boe, Gry Færevik
11:40 C-1341	EFFECTS OF FLEXIBLE OR FIXED STALL DIVIDERS ON LYING BEHAVIOUR AND PREFERENCES OF DAIRY COWS Lars Erik Ruud Lars Erik Ruud, Knut Egil

104 SESSION

10:20 -11:55
(SPC-05): VENTILATION RATE ASSESSMENT
Moderator: Rick Stowell
Location: AUDITORIO 3B

10:20	Introduction
10:25 C-0476	EVALUATION OF THE CO2 MASS BALANCE METHOD TO CALCULATE VENTILATION RATES FROM MECHANICALLY VENTILATED LIVESTOCK BUILDINGS Julio Mosquera Losada Julio Mosquera Losada, Karin Groenestein, Nico W. M. Ogink, André J. A. Aarnink

10:40	C-0648	HE INFLUENCE OF BUILDING EQUIPMENT AND OPERATIONON THE AIR EXCHANGE RATES THROUGHOUT A NATURALLY VENTILATED DAIRY BARN Alaa Kiwan Alaa Kiwan, Werner Berg, Hans-joachim Müller, Manfred Gläser, Merike Fiedler, Kristina von Bobrutzki, Christian Ammon, Mohamed Samer, Reiner Brunsch,
10:55	C-0079	A COMPARISON STUDY AMONG H2O-BALANCE, HEATBALANCE, CO2-BALANCE AND TRACER GAS TECHNIQUE FORAIRFLOW RATES MEASUREMENT IN NATURALLY VENTILATED DAIRY BARNS Mohamed Samer Mohamed Samer
11:10	C-1515	EMISSION MONITORING METHODOLOGY AT NEAMS DAIRY SITE, WITH AN ASSESSMENT OF THE UNCERTAINTY OFMEASURED Larry Jacobson Erin Cortis; Larry Jacobson; Brian Hettichler; Albert Heber
11:25	C-0503	MEASURING VENTILATION USING CO2 BALANCES: EVOLUTION OF CO2 PRODUCTION FROM LITTER IN TWO BROILER CYCLES Salvador Calvet Sanz Salvador Calvet Sanz, Fernando Estellés Barber, María Cambra-López, Antonio G. Torres
11:40	C-1394	IMPLICATIONS OF INCREASING VENTILATION RATES OF BROILER FARMS TO FULFILL EUROPEAN WELFARE REGULATIONS ON GAS CONCENTRATIONS Fernando Estellés Barber Fernando Estellés Barber, Aranzazu Villagra, Salvador Calvet Sanz

105 SESSION

10:20 -11:55
(EN): ENERGY EFFICIENCY IN AGRICULTURE I
Moderator: Claudia Lutsyuk
Location: MULTIPURPOSE IA

10:20	Introduction
10:25	Presentation of AGREE
10:40	Keynote Speaker
10:55 C-2124	ENERGY ANALYSIS METHODOLOGY FOR AGRICULTURAL FIELD CROPS -PRINCIPLES AND NEEDS FOR STANDARDIZATION Hannu Juhani Mikkola Hannu Juhani Mikkola, Jukka Ahokas, Mari Rajaniemi, TapaniJokiniemi

11:10	C-0969	CONTROL OF GREENHOUSE GAS EMISSIONS IN A SHORT ROTATION COPPICE BY REDUCED NITROGEN FERTILISATION Jürgen KERN Jürgen KERN, Antje Balasus
11:25	C-1950	A STUDY ON THE INFLUENCE WHEN BIOFUEL BE INTRODUCE TO TOKACHI PLAIN IN JAPAN ?THE VALUATION OF ENVIRONMENTAL CAPACITY AND AMOUNT OF ENERGY ON INPUT-OUTPUT ANALYSIS Xin Wang Xin Wang, Youichi Shibata, Marlowe Edgar Burce, Takashi Kataoka, Hiroshi Okamoto
11:40	C-2224	ENERGY EFFICIENCY INVESTIGATION IN ALFALFA, CORNSILAGE AND SOME OTHER FODDER PRODUCTION IN MOGHAN PLAIN IN IRAN Mohammadali Maysami Mohammadali Maysami, Werner Berg, Abdolhossein Chavoshpour

106 SESSION

10:20 -11:55
(EN): BIOMASS HARVESTING
Moderator: Borja Velázquez-Martí
Location: MULTIPURPOSE IB

10:20		Introduction
10:25	C-0365	HARVESTERS FOR SHORT ROTATION COPPICES: CURRENT STATUS AND NEW SOLUTIONS Detlef Ehler Detlef Ehler, Ralf Pecenka
10:40	C-0460	ESTIMATION AND COMPARISON OF PRUNED BIOMASS DEPENDING ON LOCATION AND PRUNING PRACTICE APPLIED IN URBAN MORUS ALBA TREES Borja Velázquez-Martí Magdalena Sajdak, Borja Velázquez-Martí
10:55	C-1151	INVESTIGATION OF THE MAIZE STALK GATHERING FOR ENERGETIC USE Laszlo Kocsis Laszlo Kocsis, Zoltán Hudoba, Tibor Vojtela
11:10	C-1169	COLLECTING AND USE OF CEREAL CHAFF Fritz Marti Fritz Marti, Nicole Berger, Bernhard Streit

11:25	C-2137	NEW METHOD FOR BIOMASS BALES COUPLING AND ROLLING THEM ON BOGGY TERRAIN, ESPECIALLY IN NATIONAL PARKSAND NATURA 2000 PROTECTED AREAS Adam P. Dubowski Adam Dubowski Piotr, Krzysztof Zembrowski, Sylvester Weymann, Radoslaw Karbowski, Aleksander Rakowicz, Agnieszka Potrykowska, Lukasz Wojnilowicz,
11:40	C-1414	DEVELOPMENT OF A MOBILE STRAW PELLETIZING MACHINE Koen Deprez Koen Deprez, Paul Haems, Luc Vande Riviere, Philippe VanOverbeke, Jürgen Vangeyte

107 SESSION

10:20 -11:55
(IT): ANIMAL MONITORING I
Moderator: Aad Jongebreur
Location: MULTIPURPOSE IC

10:20		Introduction
10:25	C-0392	AUTOMATIC DETECTION OF ANIMALS DURING MOWING OPERATIONS USING THERMAL IMAGING Kim Arild Steen Kim Arild Steen, Andrés Villa-Henriksen, Ole Roland Therkildsen, Henrik Karstoft, Ole Green
10:40	C-0641	CAN WE MONITOR PIGS' WATER INTAKE BY CAMERAS? Mohammadamin Kashiha Mohammadamin Kashiha, Claudia Bahr, Sara Amirpour Haredasht, Sanne Ott, Christel Moons, Daniel Berckmans
10:55	C-1140	AUTOMATIC LAMENESS DETECTION IN DAIRY COWS USING ARTIFICIAL NEURAL NETWORKS Mertens Koen C. Mertens Koen C., Jürgen Vangeyte, Stephanie Van Weyenberg, SamDe Campeeneere, Annelies Van Nuffel
11:10	C-0438	VALIDATION OF A NEW HEALTH MONITORING SYSTEM (RUMIWATCH) FOR COMBINED AUTOMATIC MEASUREMENT OF RUMINATION, FEED INTAKE, WATER INTAKE AND LOCOMOTION IN DAIRY COWS Nils Zehner Nils Zehner, Joël J. Niederhauser, Franz Nydegger, Anne Grothmann, Markus Keller, Matthias Hoch, Angelika Haeussermann, Matthias Schick
11:25	C-0358	VIDEO-BASED DETECTION OF GOOSE BEHAVIOURS Kim Arild Steen Kim Arild Steen, Ole Roland Therkildsen, Henrik Karstoft, Ole Green

108 SESSION

10:20 -11:55
(IT): ROBOTIC PLATFORM I
 Moderator: Gilles Rabatel
 Location: ROOM 6+7

10:20	Introduction
10:25 C-2059	DEVELOPING A FIELD ROBOTIC TEST PLATFORM USING LEGO©MINDSTORM©NXT Gareth Edwards Gareth Edwards, Dionysis Bochtis, Claus G Sørensen
10:40 C-1395	OPTIMAL MOTION PLANNING OF A CARTESIAN MANIPULATOR FOR MAXIMUM MELON HARVESTING Itzhak Shmulevich Moshe Mann, Dror Rubinstein, Itzhak Shmulevich, Boaz Zion
10:55 C-0370	DESIGN AND DEVELOPMENT OF A ROBOTIC PLATFORM FOR THE EVALUATION OF SEARCH ALGORITHMS Pilar Barreiro Juan Duque Rodriguez, Pilar Barreiro Elorza, Javier Gutierrez Lopez, David Gomez-Ullate Oteiza, Valeriano Mendez Fuentes, Carlos MejiaMonasterio
11:10 C-2095	ROBOTIC SOLUTIONS FOR POT-PLANT NURSERIES Paolo Gay Lorenzo Comba, Paolo Gay, Davide Ricauda Aimorino
11:25 C-0232	A MULTI-ARMS ROBOTIC HARVESTER FOR 2-D CROPS Boaz Zion Boaz Zion; Daniel Levin

109 SESSION

10:20 -11:55
(PF): NON DESTRUCTIVE TECHNIQUES
 Moderator: Bert Verlinden
 Location: ROOM 1

10:20	Introduction
10:25 C-1812	NON-DESTRUCTIVE DETERMINATION OF AMYLOSE CONTENT OF RICE BY COMBINED USE OF A NEAR-INFRARED SPECTROMETER AND A VISIBLE LIGHT GRAIN SEGREGATOR Sakiko Fujikawa Sakiko Fujikawa, Shuso Kawamura, Rui Li, Takamasa Doi

10:40	C-2312	THE USE OF NEAR INFRARED SPECTROSCOPY TO DETERMINE THE QUALITY OF RICE AFTER STORAGE Pornarree Siriphollakul Pornarree Siriphollakul, Kazuhiro Nakano, Sirichaikunlayanarat, Jaitip Wanitchang, Thongchaisuwonsichon, Panida Boonyarithongchai, Shintarohohashi,
10:55	C-2096	OPTICAL PROPERTIES OF PULP AND SKIN IN BRAZILIAN MANGOES IN THE 540-900 NM SPECTRAL RANGE: IMPLICATION FOR NON-DESTRUCTIVE MATURITY ASSESSMENT BY TIMERESOLVED REFLECTANCE SPECTROSCOPY Lorenzo Spinelli Lorenzo Spinelli, Anna Rizzolo, Maristella Vanoli, Maurizio Grassi, Paola Eccher Zerbini, Rodrigo Meirelles de Azevedo Pimentel, Alessandro Torricelli,
11:10	C-1182	RAMAN AND FT-NIR SPECTROSCOPY TECHNOLOGIES FOR THE PREDICTION OF TOTAL FAT CONTENT IN SOYBEAN Hoonsoo Lee Hoonsoo Lee, Byoung-Kwan Cho, Soo-In Sohn, Hee-Youn Chi, Soo-Chul Park
11:25	C-0059	NON-DESTRUCTIVE CLASSIFICATION OF TRANSLUCENT FLESH MANGOSTEEN BY NEAR INFRARED INTERACTANCE Anupun Terdwongworakul Anupun Terdwongworakul, Sontisuk Teerachaichayut, Sirinad Noypitak
11:40	C-0240	DETERMINING SOME PHYSICAL AND MECHANICAL PROPERTIES OF LORESTANBLACK FIG FRUIT Seyedehsanaz Jarolmasjed Seyedehsanaz Jarolmasjed, Fariborz Zare Nahandi, Meysam Karami, Ata Khamene Asl

110 SESSION

10:20 -11:55
(PF): FOOD TECHNOLOGY
 Moderator: Maria Luisa Amadio
 Location: ROOM 4

10:20	Introduction
10:25 C-1891	EFFECT OF FERMENTATION BY LACTOBACILLUS PLANТАRUM AND LACTOBACILLUS ACIDOFILUS ON FUNCTIONAL PROPERTIES OF POMEGRANATE JUICE Zeinab Mousavi Zeinab Mousavi, Seyed Mohammad Mousavi, Seyed Hadi Razavi, Zahra Emam-Djomeh, Mehri Hadinejad, Mojgan Mirzapour
10:40 C-1108	PURIFICATION OF MARINE FISH OILS USING PILOT SCALE ADSORPTION COLUMN Subramaniam Sathivel Subramaniam Sathivel, Huaixia Yin, Peter J. Bechtel

- 11:55 C-0522 PROPERTIES OF THE WATER CONTAINING NANOBUBBLES AS A NEW TECHNOLOGY OF THE ACCELERATION OF PHYSIOLOGICAL ACTIVITY
Shu Liu
Shu Liu, Masatoshi Enari, Yoshinori Kawagoe, Yoshino Makino, Seiichi Oshita
- 11:10 C-1685 CONTROLLING THE ATMOSPHERE IN THE MALAXATION MACHINE HEADSPACE IN ORDER TO IMPROVE THE QUALITY OF SICILIAN EXTRA VIRGIN OLIVE OILS
Pietro Catania
Pietro Catania, Felice Pipitone, Marco Salvia, Mariangela Vallone

111 SESSION

10:20 -11:55
(SPC02): FOOD ENGINEERING AND PROCESSING
Moderator: Tomas Norton
Location: ROOM 2

- 10:20 Introduction
- 10:25 TRENDS ON CFD APPLICATIONS IN AGRICULTURE
Technical speaker: In-Bok Lee
- 10:55 C-0247 FLOW AND SCALAR EXCHANGE FOR HORTICULTURAL PRODUCTS WITH CFD: PERFORMANCE OF TURBULENCE AND BOUNDARY-LAYER MODELLING APPROACHES
Thijs Defraeye
Thijs Defraeye, Els Herremans, Pieter Verboven, Jan Carmeliet, Bart Nicolai
- 11:10 C-1066 COMPUTATIONAL FLUID DYNAMICS-BASED THREE DIMENSIONAL MODELING AND SIMULATION OF HEAT AND MASS TRANSFER PROCESS IN A GRAIN MASS OF MAIZE STORED IN A FLAT BIN
José Helvecio Martins
Keller Sullivan Oliveira Rocha, José Helvecio Martins, Marcio Arêdes Martins, Adílio Flauzino Lacerda Filho, Paulo Marcos de Barros Monteiro
- 11:25 C-1142 CFD MODELLING TO STUDY THE EFFECTS OF TABLE GRAPE PACKAGING AND STACKING ON COOLING AND MOISTURE LOSS
Mulugeta Admasu Delele
Mulugeta Admasu Delele, Mdudzi E.K. Ngcobo, Umezuruike Linus Opara, Pankaj B. Pathare
- 11:40 C-1362 NUMERICAL SIMULATION OF AIRFLOW DISTRIBUTION IN A MIXED FLOW DRYER
Holger Scaar Uwe
Holger Scaar, Fabian Weigler, Jochen Mellmann

112 SESSION

10:20 -11:55
(SPC07): SILO LOADING
Moderator: Francisco Ayuga
Location: ROOM 3

- 10:20 Introduction
- 10:25 C-0016 Review of Silo Loadings Associated with the Storage of Bulk Granular Materials
Technical Speaker: **Alan W. Roberts**
- 10:55 C-0488 A NOTE ON LOAD COMBINATIONS FOR SILOS
Jørgen Nielsen
Jørgen Nielsen, Jørgen Nielsen, J. Michael Rotter, John Dalsgaard Sorensen
- 11:10 C-0450 AN ARCH-BASED MODEL FOR PREDICTING DYNAMIC PRESSURES DURING SILO DISCHARGE
Qiang Zhang
Xuduo Cheng, Qiang Zhang
- 11:25 C-1406 EXPERIMENTAL STUDY OF THE PRESSURES EXERTED BY THE WHEAT STORED IN SLENDER CYLINDRICAL SILOS. COMPARISON WITH EUROCODE 1 PART 4.
Pedro Aguado Rodríguez
Angel Couto, Pedro Aguado Rodríguez, Angel Ruiz, Alberto Tascón

113 SESSION

10:20 -11:55
(ED): EDUCATION AND CURRICULA
Moderator: Carlos Alvarez
Location: ROOM 5

- 10:20 Introduction
- 10:25 C-0055 EVALUATING THE EFFICIENCY OF APPLIED AGRICULTURAL SCIENCE EDUCATION IN PRODUCTIVITY OF PRODUCERS AND SUPPLIERS OF MEDICINAL PLANTS IN IRAN
Seyed Abbas Mirjalili
elaha poorazizi, Seyed Abbas Mirjalili
- 10:40 C-0142 TEACHING INNOVATION THROUGH INTERNATIONAL STAFF MOBILITY AT THE TECHNICAL UNIVERSITY OF VALENCIA
Nemesio Fernández Martínez
Nemesio Fernández Martínez, Vicente Castell Zeising, Rosa Puchades Pla, Debra Westall, Penny Macdonald, Claudio Benavent Montoliu
- 10:55 C-0976 NEW REQUIREMENTS FOR AGRICULTURAL ENGINEERING TRAINING IN GALICIA (SPAIN)
Carlos J. Álvarez
Marta Cardín, Manuel F. Marey, Tomás S Cuesta, Carlos J. Álvarez

11:10	C-2346	AN OPEN-ACCESS CAN-BASED SYSTEM FOR TEACHING ELECTRO-HYDRAULICS AND OTHER MOBILE CONTROL Dennis Buckmaster Dennis Buckmaster, John Michel, Shawn Ehlers, Daniel Skelton, Noah Freeman, D Skelton, Kyle Brune, Josh Heber
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114 SESSION

10:20 -11:55
(SPC03): PLANT INSPECTION
Moderator: Scott Noble
Location: ROOM 8+9

10:20		Introduction
10:25		Technical speaker Dr. Bosoon Park
10:40	C-0609	AN AUTOMATIC VISION-BASED PLANT GROWTH MEASUREMENT SYSTEM FOR LEAFY VEGETABLES Ta-Te Lin Ta-Te Lin, Tsung-Cheng Lai, Ting-Yu Liu, Yu-Hui Yeh, Chang-ChihLiu, Wei-Chang Chung
10:55	C-1358	DETECTION OF OVERLAPPING PLANTS USING ACTIVE SHAPE MODELS. Julio Cesar Pastrana Perez Julio César Pastrana Pérez, Thomas Rath
11:10	C-1931	WEED MAPPING USING DIGITAL IMAGES Joao Pedro Sansao Joao Pedro Sansao, Mário Cupertino Da Silva Júnior, Leonardo Amaral Mozzelli, Francisco De Assis De Carvalho Pinto, Daniel Marçalde Queiroz
11:25	C-2186	DETECTION OF PERENNIAL WEED PATCHES IN RIPENING CEREALS WITH AN IMAGE ANÁLISIS APPROACH Christoph Zecha Tobias Dittmann, Martin Weis, Christoph Zecha
11:40	C-2315	A METHOD FOR PLANT LEAF AREA MEASUREMENT BY USING STEREO VISION Vincent Leemans Vincent Leemans Benjamin Dumont, Marie-France Destain, Françoise VanCutsem, Bernard Bodson

115 SESSION

11:55-13:30
(PM): TILLAGE FORCES 1
Moderator: Jesus Gil-Ribes
Location: AUDITORIO I

11:55		Introduction
12:00	C-0740	A NEW APPROACH FOR MEASURING THE WEAR RESISTANCE OF CUTTER BLADES Andrej Batos Andrej Batos, Andreas Jahr, Hunn Sim

12:15	C-1256	ANALYSIS OF AN ALTERNATIVE CUTTING PRINCIPLE IN A DISC MOWER TO REDUCE THE POWER REQUIREMENTS Sebastian Kemper Sebastian Kemper, Thorsten Lang
12:30	C-0099	OPTIMIZING THE PERFORMANCE OF TRACTORS IN DISC HARROW SYSTEMS João manuel Serrano João Manuel Serrano, José Peça, Shakib Shahidian, José Marquesda Silva
12:45	C-2290	MODELING AND PREDICTION OF SOIL CUTTING BEHAVIOR BY A PLOW Takashi Okayasu Takashi Okayasu, Ken Morishita, Haruki Terao, Muneshimitsuoka, Eiji Inoue, Koichiro Fukami

116 SESSION

11:55 -13:30
(SW-SPC01): CROP RESPONSE TO THE IRRIGATION REGION
Moderator: Luis Santos Pereira
Location: AUDITORIO 2

11:55		Introduction
12:00	C-1971	REGULATED DEFICIT IRRIGATION. A USEFUL TOOL FOR IMPROVING ON-FARM IRRIGATION EFFICIENCY Diego Intrigliolo Diego S. Intrigliolo, Luis Bonet, Carlos Ballester, Juan Ramón Castel
12:15	C-0601	PREDICTING EFFECTS OF WATER-SAVING PRACTICES ON CROP YIELD AND WUE FOR SPRING WHEAT AND SUMMER MAIZE IN ARID IRRIGATION DISTRICTS OF UPPER YELLOW RIVER BASIN Guanhua Huang Jianhua zheng, Xu Xu
12:30	C-0953	EFFECT OF DIFFERENT IRRIGATION STRATEGIES ON POTATO (SOLANUM TUBEROSUM L.) CROP YIELD Juan Ignacio Corcoles Tendero Juan Ignacio Corcoles Tendero, Debora Costa, Francisco Montoya, Alfonso Dominguez, Jose Maria Tarjuelo Martin -Benito, Jose Fernando Ortega Alvarez
12:45	C-1373	OPTIMIZED REGULATED DEFICIT IRRIGATION STRATEGIES FOR MAIZE (ZEA MAYS L.) IN A SEMIARID ENVIRONMENT Alfonso Dominguez Padilla Alfonso Dominguez, Jose Arturo De Juan, Jose Mariatarjuelo, Roberto Simon Martinez, Angel Martinez
13:00	C-2108	ECONOMIC IMPACTS ASSESSMENT OF DEFICIT IRRIGATION AND COMMODITY PRICES IN SOUTHERN BRAZIL Gonçalo Rodrigues Caleia Gonçalo C. Rodrigues Juliano D. Martins, Mirta T. Petry, Reimar Carlesso, Paula Paredes, Ricardo D. Rosa, Luis S. Pereira

117 SESSION

11:55 -13:30 **(SPC-05): LIGHT, SOUND AND HANDLING ENVIRON- MENT**

Moderator: Angela Green
Location: AUDITORIO 3A

11:55	Introduction
12:00	In-room break
12:15 C-1409	SOUND LEVELS IN A WEAN-TO-FINISH FACILITY IN BRAZIL (NOISE LEVELS IN A WEAN-TO-FINISH FACILITY IN BRAZIL) Brenda Medeiros Brenda B. L. Medeiros, Juliana M. Mas- sari, Ana Paula de Assis Maia, Rojane M. Kletecke, Rimena A. Vercellino, Juliana Sarubbi, Daniella J. Moura
12:30 C-0394	EFFECT OF LIGHT COLOR ON GROWTH AND WASTE EMISSION OF BROILERS Jingsong Jiang Jingsong Jiang, Jimming Pan, Yue Wang, Zhangying Ye, Yibin Ying
12:45 C-1766	DIFFERENT LIGHT INTENSITY ON THE BEHAVIOR AND WELFARE OF COMMERCIAL BROILER CHICKS Rimena Vercellino Amaral Rimena Vercellino Amaral; Daniella Jorge De Moura; Ana Paula DeAssis Maia; Brenda Batista Medeiros; Thayla Ridolfi Morandi DeCarvalho; Douglas D'alessandro Salgado; Irenilza De Alen- car Nääs
13:00 C-1687	IMPROVING LOADING FACILITIES AND METHODS TO MINIMIZE STRESS INDUC- ING FACTORS ON ANIMALS DURING TRANSPORT Girma Gebresenbet Girma Gebresenbet
13:15 C-2015	AGGRESSIVENESS TEST IN BREEDING DOES Irene Olivas Irene Olivas; Aránzazu Villagrá

118 SESSION

11:55 -13:30 **(SPC-05): AIR QUALITY MEA- SUREMENT**

Moderator: Ken Casey
Location: AUDITORIO 3B

11:55	Introduction
12:00	In-room break
12:15	C-1339 - AIR VELOCITY DISTRIBUTION IN A COMMERCIAL BROILER HOUSE Brian Luck Jeremiah D. Davis, Joseph L. Purswell, Johnathan Olsen, Emile Koury

12:30 C-1572 DETERMINING DAILY AVERAGE
CONCENTRATIONS OF AMMONIA IN
LIVESTOCKBUILDINGS USING A PHO-
TOACOUSTIC MONITOR AND ACID WET
TRAPS

Fernando Estellés Barber

Fernando Estellés Barber, Irene Olivas
Cáceres, Milagro Borrás Llopis, Salvador
Calvet Sanz

12:45 C-1263 COMPARISON BETWEEN LIGHT SCATTE-
RING AND GRAVIMETRIC DEVICES FOR
SAMPLING PM10 MASS CONCENTRA-
TION IN LIVESTOCK HOUSES
Maria Cambra-López

Maria Cambra-López, Albert Winkel, Julio
Mosquera, Nico W. M. Ogink, André J. A.
Aarnink

13:00 C-1538 AGLITE: A 3-WAVELENGTH LIDAR SYS-
TEM FOR QUANTITATIVEASSESSMENT
OF AGRICULTURAL AIR QUALITY AND
WHOLEFACILITY EMISSIONS
Kori Moore

Michael Wojcik, Jerry Hatfield, Randy
Martin, Kori Moore, Richard Pfeiffer, John
Prueger

13:15 C-1158 PHOTO ACOUSTIC SPECTROSCOPY IN
LIVESTOCK BUILDINGS: INTERFERENCE
EFFECTS ON AMMONIA, NITROS OXIDE
ANDMETHANE CONCENTRATIONS
Mélynda Hassouna

Mélynda Hassouna, Mélynda Hassou-
na, Paul Robin, Alicia Charpiot, Nadège
Edouard, Bertrand Méda

119 SESSION

11:55 -13:30 **(EN): ENERGY EFFICIENCY IN AGRICULTURE II**

Moderator: Chris de Visser
Location: MULTIPURPOSE 1A

11:55 Introduction

12:00 C-0700 IMPLICATIONS OF ENERGY EFFICIENCY
MEASURES IN WHEAT PRODUCTION
Andreas Meyer-Aurich
Andreas Meyer-Aurich, Thomas Ziegler,
Hasan Jubaer, Lukas Scholz, Tommy
Dalgard

12:15 C-1873 HANDLING, TREATMENT AND SPREA-
DING OF PELLETEDAGRICULTURAL
WASTES FOR ORGANIC FERTILIZATION
Elio Romano

Elio Romano, Massimo Brambilla, Carlo
Bisaglia, Eugenio Cavallo, Niccolò Pampu-
ro, Ester Foppa Pedretti

12:30 C-0554 THE TREND OF ENERGY CONSUMPTION
FOR SUGAR BEET PRODUCTION IN
DIFFERENT LEVELS OF CULTIVATED AREA
Mohammad Ghahderijani
Mohammad Ghahderijani, Morteza Almas-
si, Masoud Nezamoleslami, Mohammad
Hasan Ebrahimi, Babak Pourmehdi
zanbouri, Seyed Alireza Ghadimi, Mohsen
Shanazari

12:45	C-1238	DETERMINATION OF ENERGY INDEXES FOR MACHINE-BASED OPERATION IN AGRICULTURAL PRODUCTION (AGRONOMY AND HORTICULTURE) IN IRAN Mohammad Ghahderijani Hasan Moradi; Seyed Alireza Ghadimi; Reza Eshaghi; Mohammad Ghahderijani; Mehran Hesaraki; Raouf Hazinia; Vahid Jafari
13:00	C-0920	AIR HEATING SOLAR COLLECTORS FOR AGRICULTURAL PRODUCTION DRYING Aivars Aboltins Aivars Aboltins; Guntis Ruskis; Janis Palabinskis

120 SESSION

11:55 -13:30
(EN): BIOMASS LOGISTICS
Moderator: Márcio Aredes Martins
Location: MULTIPURPOSE 1B

11:55		Introduction
12:00	C-0156	GENERIC DATA MODEL TO REPRESENT THE BIOMASS-TO BIOENERGY SUPPLY CHAIN LOGISTICS Annelies De Meyer Annelies De Meyer, Dirk Cattrysse, Monique Snoeck, Jos VanOrshoven
12:15	C-0689	OPTIMIZATION OF BIOMASS LOGISTICS FOR AGRICULTURAL RESIDUE USAGE IN WESTERN CANADA Joy Agnew Joy Agnew, Carrie Sampson
12:30	C-1026	MILP MODELS FOR BIOMASS SUPPLY CHAINS OPTIMIZATION: APPLICATIONS TO DISTRICT HEATING IN RESIDENTIAL AREAS Antonio Pantaleo Antonio Pantaleo, Sara Giarola, Achille Pellerano, Nilay Shah
12:45	C-1243	OPTIMIZATION OF HARVEST AND STORAGE TECHNOLOGY FOR EFFICIENT PRODUCTION OF BIOENERGY FROM SHORT ROTATION COPPICE ON FARMLAND Ralf Pecenka Ralf Pecenka, Christine Idler, Hannes Lenz, Volkhard Scholz, Jürgen Kern, Jürgen Kern
13:00	C-2254	A MACHINERY ALLOCATION AND SCHEDULING TOOL FOR THE BIOMASS COLLECTION CHAIN Dionysis Bochtis Anna Orfanou, Dionysis Bochtis, Dimitris Pavlou, Gareth Edwards, Claus Sørensen

121 SESSION

11:55 -13:30
(IT): ANIMAL MONITORINGII
Moderator: Morris Villarroel
Location: MULTIPURPOSE 1C

11:55		Introduction
12:00	C-1935	PRECISION DAIRY MANAGEMENT BASED ON ONLINE SYNERGISTIC CONTROL Tjebbe Huybrechts Tjebbe Huybrechts, Kristof Mertens, Bart De Ketelaere, Josse DeBaerdemaeker, Wouter Saefs
12:15	C-0667	ADAPTIVE FILTER FOR DENOISING COWS EEG MEASUREMENTS BASED ON EMG SIGNAL. Matti Pastell Matti Pastell, Emma Ternman, Per Peetz Nielsen, Sigrid Agenas, Laura Hänninen
12:30	C-2071	EFFECTS OF CHICKEN EMBRYOS INCUBATED UNDER HIGH CO ₂ LEVEL DURING LAST 3 DAYS OF INCUBATION Qin Tong Qin Tong, Imelda McGonnell, Carlos Eduardo Bites Romanini, Daniel Berckmans, Hakim Bergoug, Nancy Roulston, Pascal Garain, Theo Demmers
12:45	C-0986	DUST CONCENTRATION MEASUREMENT IN CONFINED LAYING HEN HOUSES USING DIGITAL IMAGE PROCESSING TECHNOLOGY Li gen Yu Ligen Yu, Guanghui Teng, Baoming Li, Chao Zong, Yingying Li
13:00	C-0591	AN INTEGRATED WARNING SYSTEM FOR IMPROVED LIVESTOCK PRODUCTION BASED ON MULTIVARIATE SYNERGISTIC CONTROL Kristof Mertens Kristof Mertens, Tjebbe Huybrechts, Bart Kemps, Josse DeBaerdemaeker, Wouter Saefs, Bart De Ketelaere

122 SESSION

11:55 -13:30
(IT): ROBOTIC PLATFORM II
Moderator: Jan Bontsema
Location: ROOM 6+7

11:55		Introduction
12:00	C-0234	MECHANICAL DESIGN AND DEVELOPMENT OF AN ELECTRIC MOBILE ROBOT FOR AGRICULTURAL TASKS IN GREENHOUSES Julián Sánchez-Hermosilla Julián Sánchez-Hermosilla López, Francisco Cesar Paez Cano, Victorj. Rincón Cervera, Julian Garcia Donaire

12:15	C-0795	PRESERVING STABILITY OF HUGE AGRICULTURE MACHINES WITH INTERNAL MOBILITIES: APPLICATION TO A GRAPE HARVESTER. Michel Berducat Dieumet Denis, Benoit Thuiot, Lenain Roland, Michel Berducat	12:30	C-1183	MULTISPECTRAL IMAGING TECHNIQUE FOR DETECTION OF FUNGI-INFECTED SEED POTATOES BASED ON HYPERSPECTRAL IMAGERY Dae-Yong Kim Dae-Yong Kim, Byoung-Kwan Cho, Youn-Su Lee
12:30	C-0864	MONITORING THE PERFORMANCE OF GRAIN DRILL ON-THE GO FOR ROBOTIC TRACTORS Ahmad Al-Mallahi Ahmad Al-Mallahi, Takashi Kataoka	12:45	C-1804	CLASSIFICATION FOR THE RIPENESS OF PAPAYAS BY HYPERSPECTRAL IMAGERY Xuan Wei Xuan Wei, Yong He, Lei Feng, Le He
12:45	C-1165	ICT-AGRI: EFFORTS AND PROGRESS ON HARMONIZING EUROPEAN AGRICULTURAL RESEARCH IN ICT AND ROBOTICS AND RELATED ENVIRONMENTAL ISSUES Mertens Koen C. Mertens Koen C., Jürgen Vangyte, Stephanie Van Weyenberg, Annett Latsch, Martin Holpp, Anaïs Wermeille, Per Mogensen, Iver Thysen	13:00	C-1833	DETERMINATION OF LAMB MEAT TENDERNESS BY NIR HYPERSPECTRAL IMAGING Mohammed Kamruzzaman Mohammed Kamruzzaman, Gamal M. Elmasry, Da-Wen Sun, Paul Allen
13:00	C-1449	ELECTRIC AGRICULTURAL ROBOT WITH MULTI-LAYERCONTROL Hans W. Grieppentrog Hans W. Grieppentrog, Claes L. Jaeger-Hansen, Karina Dühring	13:15	C-0994	DETECTION AND CHARACTERIZATION OF FOODBORNE PATHOGENIC BACTERIA WITH HYPERSPECTRAL MICROSCOPE IMAGING Bosoon Park Bosoon Park, Jaya Sundaram, Arthur Hinton, Jr., Seung-Chul Yoon, Kurt Lawrence, William Windham
13:15	C-2196	FARM MACHINERY MANAGEMENT INFORMATION SYSTEM Spyros Fountas Spyros Fountas, Zisis Tsiropoulos, Chris Kavalaris, Vasilis Liakos, Anna Vatsanidou, Claus Sørensen, Theofanis Gemtos, Simon Blackmore			11:55 -13:30 (PF): FOOD TECHNOLOGY II Moderator: Rungsinee Sothornvit Location: ROOM 4

123 SESSION

11:55 -13:30
(PF): NON DESTRUCTIVE TECHNIQUES II
Moderator: Da-Wen Sun
Location: ROOM 1

11:55	Introduction
12:00	C-2092 HYPERSEPECTRAL VISION FOR EARLY DETECTION OF YEAST PRESENCE IN ORGANIC MEDIUM (AGAR) Belen Diezma Iglesias Lourdes Lleó, Laura Naranjo, Eva Mª Rivas, Eva Cristina Correa, Jean-Michel Roger, Belén Diezma, Mª Isabel de Silóniz, José Martínez Peinado, Pilar Barreiro Elorza
12:15	C-1164 PREDICTION OF DEGRADATION RATE OF BROCCOLI DURING STORAGE BY HYPER SPECTRAL IMAGING Ayumi Hosaka Ayumi Hosaka, Yoshio Makino, Yoshinori Kawagoe, Seiichi Oshita

124 SESSION

11:55 -13:30
(PF): FOOD TECHNOLOGY II
Moderator: Rungsinee Sothornvit
Location: ROOM 4

11:55	Introduction
12:00	C-0088 THE INFLUENCE OF CALCIUM CHLORIDE AND CALCIUM NITRATE TREATMENT ON THE ZIZIPHUS SPP FRUIT QUALITY Mansoore Shamsi Mansoore Shamsi, Iman Hajiani
12:15	C-2104 EFFECT OF DIFFERENT TREATMENTS ON COLOR AND VITAMIN C RETENTION IN OSMO DEHYDROFROZEN PLUMS Reihaneh Ahmadzadeh Ghavidel Reihaneh Ahmadzadeh Ghavidel, Mehdi Ghiafeh Davoodi, Parastou Karimifar
12:30	C-0966 EFFECT OF ULTRASOUND IRRADIATION ON THE CONVECTIVE HEAT TRANSFER RATE DURING IMMERSION COOLING OF A STATIONARY SPHERE Hossein Kiani Hossein Kiani, Da-Wen Sun, Zhihang Zhang

125 SESSION

11:55 -13:30
(SPC02): MACHINE DESIGN AND PERFORMANCE I
Moderator: Christopher Choi
Location: ROOM 2

11:55	Introduction
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12:00	C-1836	HOMOGENIZATION OF AIRFLOW IN A FIXED-BED DRYER FOR MEDICINAL PLANTS BASED ON COMPUTATIONAL FLUID DYNAMICS (CFD) Holger Skaar Uwe Teodor Teodorov Dimov, Holger Skaar, Thomas Ziegler, Jochen Mellmann
12:15	C-1129	CFD SIMULATION OF INTEGRATED MECHANICAL MIXING AND GAS SPARGING IN ANAEROBIC DIGESTERS Binxin Wu Binxin Wu, Todd Hutchinson
12:30	C-1443	EFFECTS OF RADIATION SHIELDS AND CONDUCTIVE COOLING TO REDUCE HEAT STRESS IN DAIRY CATTLE Christopher Choi Christopher Choi, Mario Mondaca
12:45	C-1879	CFD-ANALYSIS OF HEAT EXCHANGE AROUND CHICKEN EGGS IN AN INCUBATOR Elvira Galiullina Elvira Galiullina, Vasileios Exadaktylos, Ali Youssef, Daniel Berckmans
13:00	C-2117	USING CFD TO OPTIMIZE THE DESIGN OF ONE LAYER STORAGE SYSTEM FOR TULIP BULBS Athanasis Sapounas Athanasis Sapounas, Jeroen Wildschut

11:55 -13:30
(SPC07): DISCRETE ELEMENT SIMULATION
Moderator: Alvaro Ramírez
Location: ROOM 3

11:55		Introduction
12:00	C-1629	DISTRETE ELEMENT SIMULATION OF BOTTLENECK FLOW WITH OBSTACLE Fernando Alonso-Marroquin Fernando Alonso-Marroquin, Charmila Sathanandan
12:15	C-0823	DETERMINATION OF THE MECHANICAL PROPERTIES OF BIOMASS PELLETS FOR USE IN DEM SIMULATIONS Francisco Ayuga Carlos González-Montellano, Álvaro Ramírez-Gómez, José María Fuentes, Eutiquio Gallego, Francisco Ayuga
12:30	C-1145	A STUDY ON THE DISCHARGE RATE OF PELLETS STORED IN SILOS: DISCRETE ELEMENT ANALYSIS Francisco Ayuga Carlos González-Montellano, Eutiquio Gallego, Álvaro Ramírez-Gómez, José María Fuentes, Francisco Ayuga
12:45	C-1499	DISCRETE ELEMENT MODELING OF COHESIVE GRAIN MATERIAL Zvi Asaf Zvi Asaf, Itzhak Shmulevich, Ramy Catav

13:00	C-0366	VERTICAL LOAD ON DISC EMBEDDED IN STATIC AND FLOWING GRAIN: EXPERIMENTAL AND DEM SIMULATIONS Rafal Kobyłka Rafal Kobyłka, Marek Molenda
13:15	C-2113	VIBRATION INDUCED GRANULAR FLOW THROUGH AN ELBOW Íván Sánchez Íván Sánchez, Ramón Darias, Oliver Pozo

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SESSION

11:55 -13:30
(SPC03): NON-STANDARD IMAGING OUTDOORS
Moderator: Zeev Schmilovitch
Location: ROOM 8+9

11:55		Introduction
12:00	C-1186	WEEDS-WHEAT DISCRIMINATION USING HYPERSPECTRAL IMAGERY Xavier Hadoux Xavier Hadoux, Nathalie Gorretta, Gilles Rabaté
12:15	C-2209	CLASSIFICATION BETWEEN VEGETATION AND NON VEGETATION USING HYPERSPECTRAL SENSING Efi Vitzrabin Efi Vitzrabin, Victor Alchanatis, Yael Edan
12:30	C-1496	USING THE WIENER PREDICTIVE FILTER APPROACH TO IMPROVE MEASUREMENTS OF SOIL DENSITY OBTAINED WITH AN X-RAY COMPUTED TOMOGRAPHY SCANNER Paulo Cruvinel Estevao Paulo E. Cruvinel, Mauricio F. Lima Pereira
12:45	C-1122	GETTING SIMULTANEOUS RED AND NEAR INFRARED BANDS FROM A SINGLE DIGITAL CAMERA FOR PLANT MONITORING APPLICATIONS Gilles Rabaté Gilles Rabaté, Nathalie Gorretta, Sylvain Labbé

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SESSION

14:30 -15:25
(PM): POWER AND MACHINERY -POSTER SESSION
Location: POSTERS ROOM

P-0319	DESIGN, DEVELOPMENT, AND EVALUATION OF AMECHATRONICS TRANSMISSION SYSTEM FOR UPGRADING PERFORMANCE OF A ROW CROP PLANTER Saadat Kamgar Saadat Kamgar, Mohammad Javad Eslami
P-0412	EXAMINATION OF ROLLING LOSSES ON LOAMY SAND Laszlo Mathe Laszlo Mathe

P-0508	TRACTION FORCE IN ARABLE FARMING: AGRONOMIC AND ENVIRONMENTAL ASPECTS AFTER FIELD DATA ACQUISITION AND MODELLING Thomas Anken Etienne Diserens, Anken Thomas, Andrea Battiatto	P-0988	NON-LINEAR STRESS ANALYSIS FOR THE BOLT CONNECTIONS OF A CHISEL TINE USING FINITE ELEMENT METHOD H. Kursat Celik H. Kursat Celik, Allan. E. W. Rennie, Ibrahim Akinci
P-0587	PERFORMANCE OF VACUUM SEED METERING IN LONGITUDINAL DISTRIBUTION OF COTTON SEEDS Otávio Dias da Costa Machado Airton dos Santos Alonço, Otávio Dias da Costa Machado, Mateus Potrich Bellé, Fernando Pissetti Rossato, Kátia Maria Cardinal, Hendrigo Alberto Torchelsen da Silveira	P-0992	POPULATION OF PLANTS IN MAIZE STRAW INTERCROPPED WITH FORAGES IN THE CROP-LIVESTOCK INTEGRATION Carlos Eduardo Angeli Furlani Carlos Eduardo Angeli Furlani, José Maria do Nascimento, Carlos Alessandro Chioderoli, Rafael Scabello Bertonha, Fábio Alexandre Cavichioli
P-0611	SAFETY ANALYSIS OF THE POWER HARROW THROUGH SIMULATION BASED ON THE CHARACTERISTICS OF THE SOIL Jae Wan Lee Jae Wan Lee, Young Joo Kim, Seong Il Kang, Joonyong Kim	P-1133	SEEDER PERFORMANCE FOR RAPESEED Arlindo Almeida Arlindo Almeida, Ângelo Rodrigues
P-0844	OPTIMAL SELECTION OF FARM POWER AND MACHINERY SIZE BY MIXED INTEGER LINEAR PROGRAMMING Rajab Tondro Rajab Tondro, Hasan Aghel, Mahdi Khajastepour, Arash Dourandish	P-1229	EVALUATION OF ENERGY REQUIREMENTS AND RESIDUE BURIAL EFFICIENCY OF THREE PRIMARY TILLAGE METHODS IN A HEAVY CLAY SOIL Marcello Biocca Roberto Fanigliulo, Marcello Biocca, Marco Fredrizzi, Mauro Pagano, Daniele Pochi
P-0855	DEVELOPMENT AND TESTING OF INNOVATIVE DEVICES TO REDUCE THE DRIFT OF ABRASION POWDER DURING THE SOWING OF DRESSED SEEDS WITH PNEUMATIC DRILLS Marcello Biocca Daniele Pochi, Marcello Biocca, Roberto Fanigliulo, Pietro Gallo, Patrizio Pulcini	P-1437	INVESTIGATION OF THE SOIL-TOOL INTERACTION BY SPH (SMOOTH PARTICLE HYDRODYNAMICS) BASED SIMULATION György Kerényi Márton Urbán, Krisztián Kotroczi, György Kerényi
P-0929	CROP-LIVESTOCK INTEGRATION: EVALUATION OPERATING PERFORMANCE ON INTERCROPPED OF MAIZE STRAW WITH FORAGES Carlos Chioderoli Alessandro Carlos Alessandro Chioderoli, Carlos Eduardo Angeli Furlani, Rafael Henrique de Freitas Noronha, Rafael Scabello Bertonha, Ariel Muncio Compagnon	P-1513	PERFORMANCE OF TWO PLANTERS PROTOTYPES OF DIRECT SEEDING (NO-TILL) Vilnei Dias Vilnei Dias, Airton dos Santos Alonço
P-0943	KINEMATIC ANALYSIS OF FINGERED TYPE MOUNTED MOWER CRANK MECHANISM BY USING MSC ADAMS SOFTWARE Abdullah Beyaz Abdullah Beyaz, Ugur Yegul	P-1535	USING EARNING VALUE MANAGEMENT (EVM) TO EVALUATE THE QUALITY OF FARMING OPERATIONS Marcelo Dodson Sans Marcelo Dodson
P-0981	MAIZE SEEDING IN CROP-LIVESTOCK INTEGRATION SYSTEM IN THE SECUND CROP YEAR Carlos Chioderoli Alessandro Carlos Alessandro Chioderoli, Carlos Eduardo Angeli Furlani, Marcelo Boamorte Raveli, Marcelo Tufaile Cassia, Fábio Alexandre Cavichioli	P-1589	INVESTIGATION THE EFFECTS OF MOISTURE CONTENT, TRAFFIC AND LOADING ON THE SOIL SINKAGE Reza Tabatabaeekoloor Reza Tabatabaeekoloor, Seyed Reza Mousavi Seyed
		P-1615	MATHEMATICAL MODELING OF THE MOTION RESISTANCE RATIO OF TOWED PNEUMATIC AND RIGID BICYCLE WHEELS ON DEFORMABLE SURFACES Fatai Akande Bukola Fatai Akande Bukola, Desa Ahmad
		P-1634	EFFECT OF VIBRATORY AND NON-VIBRATORY SUBSOILING ON THE SOIL ENGINEERING PROPERTIES Reza Tabatabaeekoloor Reza Tabatabaeekoloor, Seyed Reza Mousavi Seyed

- P-1785 DESIGN AND EVALUATION OF A PAIRED ROW NO-TILL SEEDING SYSTEM
F. Javier López Díez
F. Javier López Díez, Pablo Pastrana
- P-1807 INNOVATIVE METHOD AND MATERIALS FOR TYRE FOOTPRINT EVALUATION ON SURFACE CAPABLE OF BEING DEFORMED
Carlo Bisaglia
Elio Romano, Maurizio Cutini, Carlo Bisaglia
- P-1830 SPECIFIC ENERGY CONSUMPTION AND FIELD PERFORMANCE AND IN PLOUGHING AND CULTIVATING
Gerhard Moitzi
Gerhard Moitzi, Martin Haas, Helmut Wagentröstl, Josef Boxberger, Andreas Gronauer
- P-2025 EFFECTS OF TILLAGE METHODS ON ENERGY USE FOR WHEAT IN MEDITERRANEAN COASTAL OF TURKEY
Zeliha Barut Bereket
Zeliha Barut Bereket, Ismail Çelik, M. Murat Turgut
- P-2033 EFFECT OF TILLAGE EQUIPMENT ON CO₂ EMISSION FROMSOIL
Zeliha Barut Bereket
Zeliha Barut Bereket, M. Murat Turgut, Davut Akbolat, Ismail Çelik
- P-2168 EVALUATION OF ELECTRICAL PRUNING SHEARS IN GRAPEVINE
Carmen Jaren
Carmen Jaren, Gaizka Jaurregi, Jesus Mangado, Pedro Arnal, Ainara López, Silvia Arauzo
- P-2238 SPEED SEEDING AND SOIL RESISTANCE PENETRATION IN DIRECT SOWING IN SAO PAULO STATE -BRAZIL
Wilson José Oliveira de Souza
Wilson José Oliveira de Souza, Samuel Ferrari, Elza Alves, César Henrique De Jesus, Alexandre Tsuyoshi Yamamoto
- P-2349 AGROBACTERIUM-MEDIATED GENETIC TRANSFORMATION OF CHRYSANTHEMUM (CHRYSANTHEMUM MORIFOLIUM RAMAT.) WITH AN APHIDICIDAL GENE, GCS (GAMMA-CADINENESYNTHASE)
Mahmood Valizadeh
Mahmood Valizadeh, Seyed Kamal Kazemitabar, Maarten A. Jongsma
- P-2358 MODELING THE EFFECT OF NARROW BLADE GEOMETRY ON SOIL FAILURE AND DRAFT FORCE USING DISCRETE ELEMENT METHOD
Gholamhosein Shahgoli
Gholamhosein Shahgoli, Naser Shahi
- P-2359 GENOMIC AND FUNCTIONAL STUDY OF RHIZOSPHERIC BACTERIAL COMMUNITIES OF PINUS ROXBURGHII AND THEIR POTENTIAL USE IN AGRICULTURE
Muhammad Faisal
Tayyaba Younis, Muhammad Faisal

- P-0617 EFFECT OF TRACTOR TRAFFIC ON SOIL PHYSICAL PROPERTIES AND PERFORMANCE
Ali Raza Shah Sayed
- P-1709 EFFECT OF MACRO SHAPE BLADE GEOMETRY ON DRAUGHT FORCE AND SOIL REDISTRIBUTION
Seth Manuwa Idowu

130 SESSION

14:30 -15:25
(SW-SPC-01) POSTERS SESSION

Location: POSTERS ROOM

- P-1048 IMPROVING MAIZE IRRIGATION MANAGEMENT BY CSM-CERESMAIZE MODEL
Malihah Rabie
Malihah Rabie, Mehdi Gheysari, Seyed Majid Mirlatifi
- P-0462 IMPACT OF CLIMATE VARIABILITY ON IRRIGATION REQUIREMENTS FOR TWO CROPS AND RUN OFF EFFECTS INCONCORDIA; ENTRE RIOS, ARGENTINA
Alejandro Pannunzio
Alejandro Pannunzio, Pamela Norma Texeira Soria, Lida Borello
- P-0272 SOIL WATER MANAGEMENT STRATEGIES FOR ENHANCED CROP WATER PRODUCTIVITY IN DRY SEASON FARMING ON INLAND VALLEY SWAMPS OF THE TROPICS
Samuel Agele Ohikhena
- P-1053 EUCALYPTUS IRRIGATION USING FACULTATIVE STABILIZATION POND EFFLUENT: POST TREATMENT EFFICIENCY OF THE SOIL-PLANT SYSTEM
Denis Roston Miguel
Denis Roston Miguel, Alex Henrique Veronez, Bruno Corraucci Filho, Ronaldo Stefanutti
- P-1810 WATER PRODUCTIVITY AT FARM-SCALE AS A FUNCTION OF EVAPOTRANSPIRATION IN PRODUCTION SYSTEMS USING THE EXAMPLE OF BRANDENBURG, GERMANY
Daniela Müller
Daniela Müller, Katrin Drastig, Annette Prochnow, Judy Libra
- P-1193 RELATIONSHIP BETWEEN CITRUS PRODUCTIVITY AND INDICATORS OF UNIFORMITY IN TRICKLE IRRIGATION SYSTEM.
João Carlos Saad Cury
João Carlos Saad Cury, Helio Moreira Da Silva Junior
- P-0012 GROWING MORE WITH LESS IN THE WESTLANDS WATER DISTRICT IN THE SAN JOAQUIN VALLEY, CALIFORNIA
James Ayars
James Ayars, Bakhodir Mirzaev

P-0024	DAILY PENMAN-MONTEITH SENSITIVITY ANALYSIS IN MANY SUBCLASSES CLIMATES OF KERMAN BASED ON EXTENDED MARTONNE CLASSIFICATION Bahram Bakhtiari Bahram Bakhtiari, Amin Baghzadeh	P-0428	EFFECT OF SEED SIZE ON SEED GERMINATION BEHAVIOR OF LENTIL GENOTYPES (LENS CULINARIS MEDIK.) SeyedSaeid Hojjat SeyedSaeid Hojjat
P-0025	RECOGNITION AND ESTIMATION OF EFFECTIVE RAINFALL AS A DROUGHT MANAGEMENT STRATEGY IN RAINFED AGRICULTURE. Jaber Rahimi Jaber Rahimi	P-0600	RESPONSE OF MELON (CUCUMIS MELO L.) YIELD AND QUALITY TO WATER UNDER FURROW IRRIGATION IN AN ARID REGION OF NORTHWEST CHINA Guanhua Huang Huang Jun Wang, Guanhua Huang, Jianhua Zheng, Quanzhong Huang, Haijun Liu
P-0062	PRODUCTION OF HYBRID PAPAYA CULTIVATED UNDER DIFFERENT IRRIGATION LEVELS. Juarez Pedroza Paz Juarez Pedroza Paz	P-0710	YIELD AND BEAN SIZE OF COFFEA ARABICA (CV CATUÁ) CULTIVATED UNDER DIFFERENT POPULATION ARRANGEMENTS AND WATER AVAILABILITY Eduardo Agnellos Barbosa Augusto Eduardo Agnellos Barbosa Augusto, Emílio Sakai, Jane MariaCarvalho Silveira, Regina Célia de Matos Pires
P-0070	SEMINAL ROOT OF MAIZE VARIETIES IN RELATION TO REDUCTION IN THE SUBSTRATES MOISTURE CONTENT Asad Shah Asad Shah	P-0739	AGRICULTURAL WATER FOOTPRINT OF ETHANOL AND SUGAR FROM SUGAR CANE UNDER FERTIGATION PRODUCTION SYSTEM Aderson Soares Andrade Junior Aderson Soares Andrade Junior, Edson Alves Bastos, Antenor Oliveira Aguiar Netto, Darlan Leao Braga, Maria Eveline da Silva, Donavan Holanda Noleto
P-0211	MORPHOLOGICAL RESPONSES OF EU-CALYPTUS GRANDIS SEEDLINGS SUBMITTED TO DIFFERENT WATER STRESS LEVELS DURING HARDENING Magali Silva Ribeiro da Magali Ribeiro da Silva, Antonio Carlos Nogueira, Carlos Marchesi deCarvalho, Danilo Simões	P-0756	SUGARCANE FERTIRRIGATED WITH MINERAL FERTILIZER AND VINASSE UNDER SUBSURFACE DRIP IRRIGATION DURING FOUR YEARS Eduardo Agnellos Barbosa Augusto Eduardo Agnellos Barbosa Augusto, Flávio Bussmeyer Arruda, Regina Célia de Matos Pires, Tonny Jose de Araujo Silva, Emílio Sakai
P-0215	TRANSPERSION OF EUCALYPTUS spp SEEDLINGS SUBMITTED TO DIFFERENT FERTIGATION MANAGEMENTS Magali Silva Ribeiro da Magali Ribeiro da Silva, Simone Fernandes Ciavatta, Danilo Simões	P-0779	ESTIMATION OF CROP WATER PRODUCTIVITY IN THE ZAYANDEHRUD BASIN BASED ON FIELD INVESTIGATION (CASE STUDY: ABSHAR RIGHT IRRIGATION NETWORK) Vahid Rezaverdinejad Vahid Rezaverdinejad, Hojjat Ahmadi, Sina Besharat
P-0255	ADEQUACY OF THE PENMAN-MONTEITH METHOD TO IRRIGATED SURFACE WITH DIFFERENT EXPOSURES AND DECLIVITY José Eduardo Pitelli Turco José Eduardo Pitelli Turco, Adhemar Pitelli Milani, Edemo João Fernandes	P-0826	CALIBRATION OF HARGREAVES EQUATION FOR ESTIMATING THE REFERENCE EVAPOTRANSPIRATION IN THE SOUTHEAST OF SPAIN Antonio Ruiz Canales Antonio Ruiz Canales, José Miguel Molina Martínez, Daniel Gfernandez-Pacheco, Herminia Puerto Molina, Ramón Lópezurrea
P-0409	EVAPOTRANSPIRATION AND CROP COEFFICIENT OF ONION (ALLIUM CEPA L.) UNDER THE MULCH OF PLASTIC FILM IN AN ARID REGION, NORTHWEST CHINA Jianhua zheng Jianhua Zheng, Guanhua Huang, Jun Wang, Quanzhong Huang	P-1061	PRODUCTIVE PERFORMANCE OF MAIZE GENOTYPES UNDER WATER DEFICIT IN TERESINA, PIAUÍ STATE, BRAZIL Edson Bastos Alves Edson Bastos Alves, Milton Jose Cardoso, Ricardo Silva de Sousa, Aderson Soares De Andrade Júnior, Valdenir Queiroz Ribeiro, Ramilos Rodrigues de Brito
P-0424	IRRIGATION AND BIOFERTILIZER EFFECTS ON GROWTH OF GARLIC João Galbiatti Antonio João Galbiatti Antonio, Aline Rombega Tito Rosa, Barbara Barofaldi Ariguchi		
P-0426	THE BENEFITS OF LENTIL AUTUMN SOWING SeyedSaeid Hojjat SeyedSaeid Hojjat		

P-1063	SIMULATION OF WATER FLOW WITH ROOT WATER UPTAKE PROPOSED THE NEW SOFTWARE SWMRUM Sina Besharat Sina Besharat	P-1929	INEFFICIENCY AN INDEX FOR DROUGHT ANALYSIS Hamid Babaei Hamid Babaei, Shahab Araghinejad
P-1291	ACCUMULATION OF THE CHLORIDE AND SODIUM IN PRECOCIOUS DWARF CASHEW IRRIGATED WITH SALINE WATER DURING THE FRUITING STAGE Arlington Ricardo Ribeiro De Oliveira Arlington Ricardo Ribeiro De Oliveira, Ronaldo Nascimento, Maiene De Fátima Cordeiro Queiroga, Hugo Orlando Carvalho Guerra	P-2018	DEVELOP A SIMPLE ECONOMICAL EVAPORATION PAN EI-Sayed E. Omran EI-Sayed Omran Ewis, Mohamed A. Rashad
P-1328	ENHANCEMENTS OF USING RTD INSTEAD OF THERMOCOUPLES FOR ESTIMATING EVAPOTRANSPIRATION BY MEANS OF ENERGY BALANCE METHOD José Miguel Molina Martínez David Escarabajal Henarejos, José Miguel Molina Martínez, Daniel García Fernández-Pacheco, Antonio Ruiz-Canales, Ramón López-Ureña	P-2103	DUAL CROP COEFFICIENTS FOR IRRIGATED MAIZE IN SOUTHERN BRAZIL: MODEL CALIBRATION AND VALIDATION Gonçalo Rodrigues Caleia Juliano D. Martins, Gonçalo C. Rodrigues, Mirta T. Petry, ReimarCarlesso, Paula Paredes, Ricardo D. Rosa, Luís S. Pereira,
P-1365	EVALUATING CLIMATE CHANGE IMPACT ON IRRIGATION VULNERABILITY IN SOUTH KOREA Min-Won Jang Min-Won Jang, Soo-Jin Kim, Dae-Sik Kim, Sang-Min Kim		
P-1444	IMPROVEMENT OF ICEBERG LETTUCE IRRIGATION IN THE 'CAMPO DE CARTAGENA' AREA Herminia Puerto Molina Herminia Puerto Molina, Javier Juárez López, Antonio Ruiz Canales, José Miguel Molina Martínez	P-0277	MEASUREMENTS AND CALCULATIONS OF VENTILATION RATE FOR NATURALLY VENTILATED ANIMAL BUILDINGS: A REVIEW Peifeng LiuSongming Zhu Nan Yang, Peifeng Liu, Jinsong He, Zhangying Ye
P-1628	WIND-INDUCED FLOW IN A CLOSED WATER BODY WITH FLOATING CULTURE SYSTEM Kunihiro Hamagami Kunihiro Hamagami, Masayuki Fujihara, Ken Mori, Hidekazu Yoshioka	P-0459	AMMONIA, CARBON DIOXIDE AND HYDROGEN SULFUREMISSIONS FROM STORED SLURRY AS Affected BY SPATIAL AND TEMPORALLY DISTRIBUTED SLURRY ADDITIONS Xiaorong Dai Xiaorong Dai, Dani García, Victoria Blanes-Vidal, Guoqiang Zhang
P-1712	DRIP IRRIGATION BASED ON PAN EVAPORATION VALUES FOR MUSKMELO (CUCUMIS MELO L.) IN PLASTIC GREENHOUSE Bao-Zhong Yuan Bao-Zhong Yuan, Jie Sun, Zhi-Long Bie, Yaohu Kang	P-0824	INFLUENCE OF MANURE STRATEGY IN LAYER HOUSES WITH VIEW TO AMMONIA AND DUST PRODUCTION. Tatjana Winter Tatjana Winter, Torsten Hinz
P-1880	SURFACE ENERGY BALANCE TO ESTIMATE EVAPOTRANSPIRATION OF IRRIGATED ORANGE ORCHARDS UNDER MEDITERRANEAN SEMI-ARID CONDITIONS Rita Papa Simona Consoli, Rita Papa	P-0934	EMISSION OF AMMONIA AND GREENHOUSE GASES FROM TWO NATURALLY VENTILATED BARNS FOR DAIRY COWS Wentao Wu Wentao Wu, Chao Zong, Guoqiang Zhang
P-1882	ON THE TRUE ORIGINS OF THE HEAT PROPAGATION MODEL FOR THE PREDICTION OF SUBTERRANEAN TEMPERATURES Fernando Ruiz-Mazarrón José Francisco Romero-García, Ignacio Cañas Guerrero, Fernando Ruiz-Mazarrón	P-1923	EMISSIONS OF HARMFUL GASES IN PIG FATTENING Zuzana Palkovicova Zuzana Palkovicova, Jan Broucek, Jan Broucek
		P-0618	EFFECTS OF PHOTOPERIOD ON BEHAVIOR AND MORTALITY RATE IN BEIJING YOU-CHICKEN BEFORE 8 WEEKS OLD Furong Zhao Furong Zhao, Ailian Geng, Weiwei Jiao, Hongjie Hu

131 SESSION

14:30 -15:25
SPC-05: POSTERS SESSION
Location: POSTERS ROOM

P-0750	ESTIMATING THE MOST IMPORTANT CRITERIA FOR HATCHING EGGS AS FUNCTION OF BROILER BREEDERS AGE Marta Dos Santos Baracho Marta Dos Santos Baracho, Diego Pereira Neves, Irenilza Dealencar Naas, Juliano De Araújo Cassiano, Fabiana Goncalveslima	P-1060	HEAT TRANSFER TO CALCULATE MINIMUM VENTILATION RATES FOR BROILERS HOUSE Thayla Morandi Ridolfi de Carvalho Thayla MorandiRidolfi de Carvalho, Daniella Jorge de Moura, PauloAdemar Martins Leal, Juliana Maria Massari, Karla Andrea OliveiraLima
P-0753	LOSSES IN HATCHERY EGGS PRODUCTION: MULTIVARIATE DATA ANALYSIS Marta Dos Santos Baracho Marta Dos Santos Baracho, Irenilza De Alencar Naas,Fabiana Goncalves Lima, Juliano De Araújo Cassiano	P-1382	Improving Commercial Broiler Attic Inlet Ventilation through CFDAnalysis Jonathan Olsen Johnathan Olsen, Joseph L. Purswell, Jeremiah D. Davis, BrianLuck, Emile Koury
P-0866	ANALYSIS OF QUALITY OF HEALTH OF DIFFERENT BROILERLITTER REUSED SEQUENTIALLY Fátima Vieira Araújo Fátima Vieira Araújo, Richard S. Gates, Ilda de Fátima FerreiraTinôco, Déborah Cassuce, Bernadete Santos, Gabriela Costa	P-1901	EVALUATION OF THE THERMAL EFFICIENCY OF MATERIALS USED AS ROOFING SYSTEMS IN POULTRY HOUSES Ariane Castro Cristina Ariane Cristina de Castro, Iran Oliveira da Silva, Elenilson SguizzatoBortolini, Maria Luisa Appendino Nunes
P-0930	INFLUENCE OF ARTIFICIAL LIGHTING IN THE OCCURRENCE OF DIARRHEA IN PIGLETS IN THE NURSERY PHASE IN THE SUMMER AND WINTER SEASON Paulo Giovanni De Abreu Vilmar Rodrigues De Sousa Júnior, Paulo Giovanni De Abreu, Luana Araújo Sabino, Gustavo Júlio Mello Monteiro De Lima, Arleicolddebella, Valeria Maria Nascimentos Abreu, Letícia Dos Santoslopes, Taiana Cestonaro	P-2174	ANALYSIS OF ALTERNATIVE VENTILATION SYSTEM DESIGNS FOR A PIGSTY: ACOMPARATIVE LITERATURE REVIEW Viktorija Zagorska Viktorija Zagorska, Tomas Norton
P-0980	INFLUENCE OF ARTIFICIAL LIGHTING IN THE ZOOTECHNICAL PERFORMANCE OF PIGS IN THE NURSERY PHASE IN PERIODS OF WINTER AND SUMMER Luana Araújo Sabino Vilmar Rodrigues de Sousa Júnior, Paulo Giovanni de Abreu, LuanaAraújo Sabino, Arlei Coldebella, Letícia dos Santos Lopes, ValeriaMaria Nascimento Abreu, Gustavo Júlio Mello Monteiro de Lima	P-0191	A SURVEY TO INVESTIGATE AWARENESS OF PEOPLE ABOUT ANIMAL WELFARE INBRAZIL Raquel Baracat Tosi Rodrigues da Silva Raquel Baracat Tosi Rodrigues da Silva, Irenilza Alencar Nääs
P-1770	THE EFFECTS OF AIR QUALITY ON CHICKEN HEALTH Huong Lai Huong Lai, Mike G. B. Nieuwland, Andre J. A. Aarnink, Bas Kemp, Henk K. Parmentier	P-0708	STUDY OF COMFORT TEMPERATURE FOR BROILERS UP TO 21 DAYS OF AGE Déborah Cassuce Déborah Cassuce, Ilda de Fátima Ferreira Tinôco, Fernando Baêta,Roque Mesquita Filho, Fernanda Sousa, Diogo Coelho
P-0251	THERMAL PERFORMANCES OF A PHOTOVOLTAIC-INTEGRATED ROOFING SOLUTION FOR LIVESTOCK BUILDINGS: COMPARISON WITH CONVENTIONAL COVERINGS Matteo Barbari Matteo Barbari, Lorenzo Leso, Stefano Simonini	P-0895	USING DECISION TREE FOR CLASSIFYING FARROWING PIGLETS STRESSCONDITIONS USING VOCALIZATION Alexandra Cordeiro Alexandra Cordeiro, Irenilza De Alencar Naas, Stanley Oliveira,Andreia Almeida, Diego Pereira Neves, Flavia Jacob
P-0658	IMPROVEMENT ON AIR EXCHANGE RATE CALCULATION BY USING CO ₂ BALANCE METHOD AND ESTIMATION OF AMMONIA EMISSION FROM NATURAL VENTILATED DAIRY BUILDINGS Zihui Yan Zihui Yan, Lixin Xu, Zheng Xiang Shi, Baoming Li	P-1477	ANIMAL WELFARE EDUCATION FROM AN ENGINEERING PERSPECTIVE: USA PENN STATE EXTENSION INITIATIVE Eileen Wheeler Eileen.F. Wheeler
		P-1913	BLOOD PARAMETERS OF CHICKS FROM EGGS INJECTED WITH ASCORBIC ACID AND SUBJECTED TO THERMAL STRESS Sarah Sgavioli Sarah Sgavioli, João Batista Matos Júnior, Liliana Longo Borges,Maria Fernanda Praes Ferreira Menegucci, Euclides Braga Malheiros,Isabel Cristina Boleli

P-1916	BALANCE OF PH OF CHICKS FROM EGGS INJECTED WITH ASCORBIC ACID AND SUBJECTED TO THERMAL STRESS Sarah Sgavioli Sarah Sgavioli, Vitor Rosa De Almeida, Viviane de Souza Morita,Gisele Lamberti Zaniratu, João Ademir de Oliveira, Isabel CristinaBoleli	P-0340	STUDY OF JATROPHA CURCAS L. CAKE DETOXIFICATION Anna Letícia Montenegro Turtelli Pighinelli Anna Letícia Montenegro Turtelli Pighinelli, Roseli Aparecida Ferrari,Maria Cristina Noronha Abrahão Machado, Kil Jin Park
P-2027	ASSESSING FEAR IN RABBITS. PRELIMINARY RESULTS. Arantxa Villagrá García Irene Olivás, Aránzazu Villagrá	P-0539	INVESTIGATION AND DETERMINATION OF ENERGY MANAGEMENT INDEXES FOR DRY LAND FARMING OF CANOLA IN GOLESTAN PROVINCE OF IRAN Zahra Kalabi Seyed Alireza Ghadimi, Mohammad Emami, Pourya Nasrabadzi,Zahra Kalabi Gharelar, Mohammmd Ghahderijani, Massoud Nezamoleslami
P-2100	METHODOLOGY FOR REGISTERING INTERNAL SWINE TEMPERATURE USING SKINSURFACE TEMPERATURE SENSORS Gustavo Mostaco Marques Gustavo Mostaco Marques, Késia Oliveira Da Silva Miranda	P-0656	REUSE OF AGRICULTURAL RESERVOIR SEDIMENT CONTAMINATED BY HIGHCONCENTRATION OF ORGANIC MATTER Eunhee Choi Eunhee Choi, Jongmin Oh

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P-0002	BIOFERTILIZER PROTECTOR WITH FREE LIVING DIAZOTROPHIC AND FUNGI CHITOSAN ON GREEN PEPPER COMMERCIAL CHARACTERISTICS Newton Stamford Pereira Rosângela S Santana, Newton P Stamford, Sebastião S Júnior,Vinicio Gedeão Bezerra de Carvalho, Clayton A Sousa, ThayzaChristina Montenegro Stamford	P-0846	REGIONAL CLIMATE CHANGE IMPACT ON FUTURE ENERGY CONSUMPTION OF GREENHOUSES Thomas Rath Holger Hoffmann, Thomas Rath
P-0140	CHANGES IN SOIL PROPERTIES AND MELON YIELD AS AffECTED BY BIOPROTECTOR WITH DIAZOTROPHIC BACTERIA AND FUNGI CHITOSAN Thayza Stamford Montenegro Newton P Stamford, W J Oliveira, EVN Silva, TCM Stamford , T.L.MStamford	P-0868	EVALUATION OF A GRID-CONNECTED PHOTOVOLTAIC SYSTEM SUPPLYING POWER TO A DAIRY FARM Lelia Murgia Lelia Murgia, Giuseppe Todde, Maria Caria
P-0180	BIODIESEL FROM PULP AND KERNEL OF MACAUBA (ACROCOMIA ACULEATA) Roseli Ferrari Aparecida Roseli Aparecida Ferrari, Joaquim Adelino de Azevedo Filho	P-0890	FAST PYROLYSIS OF BONE MEAL WASTE TO OBTAIN BIO-OIL AND BIOCHAR Rosa Helena Aguiar Jussara Bertho Fantinatti, Juan M. Mesa Perez, José D. Rocha,Robson C. Martins, Rosa H. Aguiar
P-0259	FEASIBILITY OF THE ELECTRICAL SUPPLY BY WIND POWER IN DAIRY CATTLE FARMS Lidia Osorio Castelao Lidia Osorio, Ramón Velo, María Dolores Fernández, Manuel RamiroRodríguez	P-0949	INFLATABLE SOLAR AIR HEATING COLLECTOR AND ITS RESEARCH USEING IN AGRICULTURE PRODUCT DRYING Guntis Ruskis Guntis Ruskis, Aivars Aboltins, Janis Palabinskis
P-0330	UTILIDAD DE LOS RESIDUOS DE LA DESTILACION DE PLANTAS DE CYMBOPOGON CITRATUS.(D.C.) STAPF (CAÑA SANTA). Maria Cristina Escandón Arbolay Rafaela Soto Ortiz, Maria Cristina Escandón Arbolay, Maria Cristina Escandón Arbolay	P-1185	PREDICTION THE BIODYNAMIC RESPONSE OF THE SEATED HUMAN BODY IN THE SYSTEM HUMAN OPERATOR AGRICULTURAL COMBINATION Jacek Kromulski Jan Szczepaniak, Jacek Kromulski

P-1255	THE POTENTIAL FOR ENERGY SAVINGS IN CHOSEN SECTORS OF AGRICULTURAL PRODUCTION IN POLAND Janusz Golaszewski Janusz Golaszewski, Ryszard Myhan, Zbigniew Brodzinski, Mariusz Stolarski, Ewelina Olba-Ziety	P-1932	ADVANCEMENT OF RAPESEED PRODUCTION FOR EDIBLE OIL AND BIODIESEL IN TURKEY Özden Öztürk Özden Öztürk, Fikret Akinerdem
P-1396	PRODUCTION OF BIODIESEL FROM MICRO ALGAE AND DETERMINING SOME OF ITS PHYSICAL AND CHEMICAL PROPERTIES Heydar Mohammad-Ghasemnejad Maleki Heydar Mohammad-Ghasem Nejad Maleki	P-2090	ENERGY EFFICIENCY OF GROUND HEAT EXCHANGERS COOPERATING WITH THE HEAT PUMP COMPRESSOR Slawomir Kurpaska Slawomir Kurpaska, Hubert Latala
P-1464	UBIQUITOUS MONITORING OF SOIL WATER AND SALT CONTENT IN PADDY FIELDS DAMAGED BY TSUNAMI IN JAPAN Masaru Mizoguchi Masaru Mizoguchi, Katsumi Chiba, Yoshiko Muto, Koh Kato	P-2144	ENERGY CHARACTERISTIC OF SOLAR THERMAL COLLECTORS OF PLASTICS José Mª Câmara-Zapata José Mª Câmara Zapata, Arturo José Pascual Granged
P-1518	CARBON AND NITROGEN STOCKS IN DIFFERENT SOIL MANAGEMENT SYSTEMS IN COASTAL PLAINS OF PARAIBA STATE Lucia Chaves Helena Garofalo Lucia Helena Garofalo Chaves, José Deomar De Souza Barros, LuciaChaves, Iêde De Brito Chaves, Carlos Henrique de A. Farias Farias	P-2151	PERFORMANCE OF A ELECTRONIC INJECTION DIESEL ENGINE FUELED A BLENDED PREHEATED 50% SOYBEAN OIL IN PETRODIESEL Pedro Weirich Neto Henrique Hevandro Delalibera, Nilson Campolina, Pedro Weirich NetoHenrique, Ricardo Ralisch
P-1604	EVALUATION OF MICROSTRUCTURAL CHANGES DURING DELIGNIFICATION OF AGAVE (AGAVE ATROVIRENS) FIBERS BYPHOTONIC, ELECTRONIC MICROCOPY AND IMAGE ANALYSIS Hilda María Hernández Hernández Hilda María Hernández Hernández, Leonor Guadarrama Fernández, Reynold Ramón Farrera Rebollo, José Jorge Channona Pérez, Eduardo Palacios González, Alberto de Vega, Pablo Ligero, VicenteGaribay Febles, Georgina Calderón Domínguez, Jorge AlbertoMendoza Pérez	P-2163	IMPORTANCE OF IMPACTS SCENARIOS FOR THE ADAPTATION OF AGRICULTURE TO CLIMATE CHANGE Jurandir Zullo Junior Jurandir Zullo Junior, Celso Macedo Junior, Hilton Silveira Pinto, Eduardo Delgado Assad, Andrea Koga Vicente
P-1624	ENERGY CONSUMPTION PATTERN AND OPTIMIZING CANOLA PRODUCTION IN USING LINEAR PROGRAMMING Heydar Mohammad-Ghasemnejad Maleki Heydar Mohammad-Ghasem Nejad Maleki	P-2169	SOLAR THERMAL ENERGY TO SUPPORT THE HEATING OF GREENHOUSES IN THE SOUTHEASTERN SPANISH José Mª Câmara-Zapata José Mª Câmara Zapata
P-1717	GENETIC VARIABILITY OF GROWTH CHARACTERS OF JATROPHA CURCAS Edson Seizo Mori Edson Seizo Mori, Kairo Henrique Pereira Fernandes, Neide TomitaMori, Heloisa Mattana Saturnino	P-2210	LOOFAH (LUFFA CYLINDRICA, L.) BIODIESEL AS FUEL FORDIESEL ENGINE Oluwatoyin Oniya Oluwole Oluwatoyin Oniya Oluwole, Isaac Bamgbose
P-1903	ELECTRICAL ENERGY GENERATION IN SMALL HYDROELECTRIC POWER PLANT AS A NEW CRITERION FOR THE ECOLOGICAL SALE TAX? CASE STUDY FOR MINAS GERAIS STATE, BRAZIL Delly Oliveira Filho Júlio César Oliveira; Delly Oliveira Filho; José Helvécio Martins; Paulo Marcos Barros Monteiro; Maria Joselma Moraes	P-2236	THE POTENTIAL USE OF WINE LEES IN HEALTH APPLICATIONS Alaa El-din Bekhit Alaa El-din Bekhit, Adnan Bekhit
		P-2295	UTILIZATION OF SWEET SORGHUM AS A CATCH CROP FOR PRODUCING RAW MATERIALS TO BE USED FOR PRODUCTION OF BIOETHANOL AND BIOGAS Franz Theuretzbacher Franz Theuretzbacher, Philipp Kravanja, Manuel Becker, BarbaraAmon, Alexander Bauer, Anton Friedl, Antje Potthast, ThomasAmon
		P-2338	LOWER LIMIT OF OXYGEN SUPPLYING RATE FOR AN ENERGY SAVING COMPOSTING SYSTEM OF DAIRY MANURE Kazunori Iwabuchi Iwabuchi Kazunori, Mori Tsugumi, Kondo Ryutaro, Miyatake Fumihito, Maeda Takeki, Koki Maeda, Ronaldo B. Saludes,

P-1930	CULTIVAR AND SOWING DATE EFFECTS ON OIL YIELD OF SAFFLOWER Ozden Öztürk Özden Öztürk, Ramazan Keles	P-0693	APPLICATION OF VEHICLE LINEAR MODELS IN SYSTEMS SUPPORTING WORK OF AGRICULTURAL MACHINE DRIVER Ryszard Grzechowiak Tadeusz Pawłowski, Ryszard Grzechowiak
P-0633	THE SENSITIVITY ANALYSIS OF ENERGY USE FOR COTTON PRODUCTION IN IRAN Mohammad Ghahderijani Mohammad Ghahderijani; Seyyed Hassan Pishgar-komleh; Paria Sefeedpari	P-0775	PARALLEL COMPUTING AND STATE MACHINE SOFTWARE DEVELOPMENT FOR MULTIPLE TEMPORARY IMMERSION BIOREACTOR SYSTEMS SEQUENCE CONTROL Poonpat Poonnoy Poonpat Poonnoy, Nopmanee Topoonyanont
P-2291	A DECISION SUPPORT SYSTEM FOR MANAGEMENT OF ENERGY USE IN INEYARDS OF IRAN Alireza Khoshroo	P-0805	AUTOMATIC PROCESSING AND BEHAVIOR RECOGNITION SYSTEM IN LAYING HENS PRODUCTION Fengdan Lao Lao Fengdan, Guanghui Teng
P-1863	ENERGY EFFICIENCY AND AUTOMATION IN MOTORS: A CASE STUDY FOR EXHAUSTION SYSTEMS Aurelio Melo Gouvea Aurelio Melo Gouvea; Milena Pinto; Delly Oliveira; Olga Toledo	P-0852	ONLINE STEREOVISION BASED SOFTWARE TO ESTIMATE CROP PARAMETERS IN GREENHOUSES Julian Garcia Donaire José Cantón Claro, Julian Garcia Donaire, Julián Sánchezhermosilla López
P-2191	THE EFFECTS OF DIFFERENT SOWING TIMES ON SOME AGRICULTURAL PROPERTIES OF SUFFLOWER VARIETIES (C.TINCTORIUS L.) AND BIODIESEL QUALITY Fikret Akinerdem Fikret Akinerdem; Ebru Atabey	P-0881	A STUDY ON DETERMINATION OF OPTIMUM WINDOW VENTILATION OPENING RATIO IN GREENHOUSES BY THE DECISION TREE METHOD Can Ertekin Nuri Caglayan, Can Ertekin

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P-0721	DESIGN AND EVALUATION OF AN ON-THE-GO INTEGRATED SENSOR FOR MEASURING SOIL MECHANICAL RESISTANCE Abbas Hemmat	P-0931	LABORATORY STUDY OF THE OPERATION OF A MONOGRAIN VACUUM METERING SYSTEM Medina Mabel Azucena Gastón Bourges, Gustavo Fabian Nardón, Mabel Azucena Medina
P-0288	A STUDY ON SPATIAL AND TEMPORAL SOIL WATER DISTRIBUTION USING AN UNDERGROUND SENSOR-BASED PLATFORM Ioannis Gravalos Ioannis Gravalos, Dimitrios Moshou, Theodoros Gialamas, Dimitrios Kateris, Zisis Tsiropoulos, Avgoustinos Avgousti	P-1124	DISCRETE EVENT SIMULATION OF HARVESTING OPERATIONS Reem Al-Halimi Reem Al-Halimi, Medhat Moussa
P-0407	SIG APPLIED IN SPATIAL DISTRIBUTION OF THE CAPACITY OF SOIL USE OF A WATERSHED Sérgio Campos Sérgio Campos, Gabriel Rondina Pupo da Silveria, Katiuscia Fernandes Moreira, Monica Yuri Mashiki, Nathalia Maria Salvadeo Parizoto	P-1220	THE MULTI-LOOP STRUCTURE OF THE DRIVER VEHICLE SYSTEM APPLICABLE TO THE AGRICULTURAL SET STEERING TASK Jacek Kromulski Jacek Kromulski, Jan Szczepaniak, Tadeusz Pawłowski
P-0433	RAPID PROTOPLASTS EXTRACTION AND LYSIS FROM ORCHID LEAF USING A MICROFLUIDIC DEVICE Min-Sheng Hung Min-Sheng Hung, Chih-Pin Chen	P-1337	STUDY OF AGRICULTURAL MECHANIZATION SITUATION IN IRAN (EMPHASIS ON HORTICULTURAL CROPS) Nasim Khodakaramian Behnoush Hasanzad Fanid, Mahsa Samieifar, Hajar Valouzi, Shahrazad Hashemi, Mohammad Mehdi Amiri khorie, Masoud Nezamoleslami

P-1383	DEVELOPMENT OF AN INTEGRATED MULTIMEDIA ENVIRONMENT FOR A MANUALIZATION FRAMEWORK APPLIED TO AGRICULTURAL MACHINERY Iria Brucker Roggia Iria Brucker Roggia, Airton dos Santos Alonço, Roseclea DuarteMedina, Oni de Almeida Oliveira Sichonany	P-0085	MATHEMATICAL MODELING CHANGES IN RHEOLOGICAL AND MECHANICAL PROPERTIES OF PEARS DURING STORAGE UNDER VARIABLE CONDITIONS Ayman Amer Eissa Hafiz Ayman Hafiz Amer Eissa, Abdulrahman Alghannam
P-1405	A DECISION TOOL FOR SILAGE CORN HARVEST OPERATIONS Javier Bueno Lema Javier Bueno Lema, Daniel Expósito, José Manuel Pereira, CarlosAmiama	P-0100	DESIGN, CONSTRUCTION AND TESTING OF THE EXPERIMENTAL MACHINE VISION SORTING SYSTEM FOR TOMATOES Omid Omidi Omid Omidi, Asad Moddares Motlagh, Parviz Ahmadi Moghaddam
P-1566	DEVELOPMENT OF AN ACOUSTIC HORIZONTAL MULTIPLE-TIP PENETROMETER FOR DETERMINATION OF SOIL FAILURE MODE AND MECHANICAL RESISTANCE Abbas Hemmat Tayebeh Rahnama, Abbas Hemmat, Zahra Vahabi	P-0122	A FEASIBILITY STUDY FOR THE NONDESTRUCTIVE DETECTION OF GRANULATION IN TANGERINE FRUIT USING A CAPACITANCE BASED TECHNIQUE Sontisuk Teerachaichayut Sontisuk Teerachaichayut, Anupun Terdwongworakul, KanokpornKeawsumnuk, Malinee Rangsi, Kanitta Seangkeaw
P-1788	OPTIMUM DETACHING MOVEMENT FOR APPLES-HARVESTING ROBOT Tien Thanh Nguyen Tien Thanh Nguyen, Dieter van Eessen, Josse de Baerdemaeker,Wouter Saefs	P-0158	CRITICAL DROP HEIGHT IN APPLE AS AFFECTED BY TEMPERATURE AND TYPE OF IMPACT SURFACE Amir H. Afkari-Sayyah Amir H. Afkar-sayyah, Yousef Abbaspour-Gilandeh, MansourRasekh, Sedigheh Shekarbigi
P-2008	A METHODOLOGY FOR EVALUATING THE TEMPORAL STABILITY OF SPATIAL PATTERNS OF VINEYARD VARIATION Filippo gambella Filippo gambella	P-0199	TEMPERATURE AND CONCENTRATION EFFECTS ON SOME ENGINEERING PROPERTIES OF CAMEL MILK Ali Hobani Ali Hobani
P-2076	A MULTIVARIATE TIME-LAG MODELLING APPROACH TO PREDICT GRAMINEAE POLLEN ONSET BY METEOROLOGICAL DATA Corrado Costa Maria Antonia Brighetti, Corrado Costa, Alessandro Travaglini,Francesca Antonucci, Paolo Menesatti	P-0281	RHEOLOGICAL CHARACTERISTICS OF OZONATED WHEAT FLOUR Juliana Paes Lobo Juliana Paes Lobo, Juliana Lobo Paes, Lêda Rita DAntonio Faroni,Mônica Ribeiro Pirozi, Marcela Silva Carvalho, Paulo Roberto Cecon
P-2267	AUTOMATIC EXTRACTION OF MULTI-MACHINERY FIELD OPERATION PERFORMANCE STATISTICS FROM GNSS RECORDINGS. Martin Andreas Falk Jensen Martin Andreas Falk Jensen, Dionysis Bochtis, Claus Aage GronSorensen	P-0294	TEXTURE PARAMETERS OF BEEF FROM POLISH BLACK-ANDWHITE AND POLISH BLACK-AND-WHITE X LIMOUSIN YOUNG BULLS Jacek Niedzwiedz Jacek Niedzwiedz, Halina Ostoja, Marek Cierach
P-0065	PREPARATION AND PROPERTIES OF PALM DATE POWDER Alhussein Assiry M. Alhussein Assiry M.	P-0297	PHYSICAL PROPERTIES OF CULINARY BEEF FROM BEEF AND DAIRY CATTLE CROSSLBREEDS Marek Cierach Marek Cierach, Karolina Tabaka, Jacek Niedzwiedz
		P-0341	MOISTURE-DEPENDENT PHYSICAL PROPERTIES OF RED SPECKLED WHITE KIDNEY BEAN (<i>PHASEOLUS VULGARIS L.</i>)GRAINS Mansour Rasekh Mansour Rasekh, Amir H. Afkar-sayyah, Farideh Qahari Kermani

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P-0388	SIMULATED IN-TRANSIT VIBRATION DAMAGE TO APRICOTS Feizollah Shahbazi Feizollah Shahbazi	P-1067	STRESS RELAXATION OF DATE AT DIFFERENT TEMPERATURE AND MOISTURE CONTENT OF PRODUCT: A NEW APPROACH Dariush Zare Dariush Zare, Mohsen Alirezaei, Seyed Mehdi Nassiri
P-0429	EFFECT OF MOISTURE CONTENT ON SOME PHYSICAL PROPERTIES ON WHITE MAIZE SEEDS Alireza Ghodvali Alireza Ghodvali	P-1097	MEASURING SOME ENGINEERING PARAMETERS OF ROSE FLOWER Adel Heidari Adel Heidari, Gholam Reza Chegini, Mohammad Hossein Kianmehr,Siavash Azimi
P-0602	PHYSICAL PROPERTIES OF HARVESTED CARROTS IN KOREA FOR GRADE STANDARD Sukwon Kang Sukwon Kang, Kangjin Lee, Jongguk Lim, Changhyun Mo, Jongryul Park, Jaegyu Kim	P-1099	MODELLING THE EFFECT OF TIME AND TEMPERATURE ON RESPIRATION RATE OF POMEGRANATE ARILS (CV. ACCO ANDHERSKAWITZ) Oluwafemi Caleb Oluwafemi J. Caleb, Oluwafemi J. Caleb, Pramod V. Mahajan,Umezuruike Linus Opara
P-0642	DEVELOPMENT OF GINGER SPLITTING MACHINE Kayode Simonyan Joshua Simonyan Kayode Joshua, A.B. Eke, D.A. Okpara, U.N. Onwuka, J.C. Adama, B.N. Nwankwojike, R. Iheke, J. Ehiem,	P-1114	DESIGN AND CONSTRUCTION OF A HARVESTING SAFFLOWER PETALS MACHINE Adel Heidari Siavash Azimi, Gholam Reza Chegini, Mohammad Hosseinkianmehr, Adel Heidari
P-0797	DESIGN OF SEPARATION MACHINE FOR SHATTER RESISTANT SESAME AFTER THRESHING Hyun Kwon Noh Hyun Kwon Noh, Sun Ah Kim, Tae Kyung Choi	P-1120	DESIGN AND CONSTRUCTION OF A LEAF STRIPPER MACHINE Siavash Azimi Adel Heidari, Gholam Reza Chegini, Seyed Reza Hassan-Beygi,Siavash Azimi
P-0821	TOMATO SORTING BASED ON MATURITY, SURFACE DEFECTS AND SHAPE BY USING OF MACHINE VISION SYSTEM Parviz Ahmadi Moghaddam Parviz Ahmadi Moghaddam, Sina Besharat	P-1130	MECHANICAL STRENGTH TESTING OF ROSE FLOWER STEM AND PICKING FORCE EVALUATION Siavash Azimi Adel Heidari, Gholam Reza Chegini, Mohammad Hossein Kianmehr,Seyed Reza Hassan-Beygi, Siavash Azimi
P-0922	REAL TIME NON-DESTRUCTIVE DETECTION OF SEEDS IN NADORCOTT MANDARIN AND GRANULATION DISORDER IN NAVEL ORANGE BY MEANS OF X-RAY CT FOR ONLINE SORTING. Sekina Lebotsa Phalane Sekina Lebotsa Phalane	P-1184	EFFECTS OF STRAIN, STRAIN DIRECTION AND DRYING RATES ON CASTOR BEANS DECORTICATION PERFORMANCE Adriano Bastos Adriano Bastos Chaves, Antonio Carlos Ferraz
P-0971	A HYDRO-THERMO-RHEOLOGICAL MODEL FOR PREDICTION OF STRESS RELAXATION OF DATE FRUIT Seyed Mehdi Nassiri Seyed Mehdi Nassiri, Mohsen Alirezaei, Dariush Zare	P-1239	MECHANICAL AND RHEOLOGICAL PROPERTIES OF CARROTS Andras Fekete Timea Kaszab, Gyorgy Csima, Aniko Lambert-Mereti, Andras Fekete
P-1009	EFFECT OF OSMOTIC DEHYDRATION ON THE PHYSICAL CHEMICAL PROPERTIES OF PINEAPPLE Luiz Gabriel Pereira Martin Luiz Gabriel Pereira Martin Luiz, Audirene Amorim Santana, Rafael Augustus de Oliveira, Kil Jin Park	P-1261	THE INVESTIGATION OF PHYSICAL PROPERTIES OF SPRAY DRIED HONEY PREPARATION AND ITS CHANGES DURING STORAGE Katarzyna Samborska Katarzyna Samborska, Bogumila Bienkowska
P-1011	STUDY OF PHYSICOCHEMICAL PROPERTIES OF GUAVA AND MANGO POWDER OBTAINED BY SPRAY-DRYING TO USE AS NATURAL ADDITIVES Silvia Germer Rebeca Dalla Dea, Silvia Germer, Heitor Cozera, Cristhiane Ferrari	P-1271	THE INFLUENCE OF DIFFERENT EXTRUSION PARAMETERS ON ACOUSTIC PROPERTIES OF CRISP BREAD Ewa Gondek Ewa Gondek, Ewa Jakubczyk, Dorota Witrowa-Rajchert, Aleksandra Antoniuk

P-1292	THE EFFECT OF EXTRUSION CONDITIONS ON MECHANICAL PROPERTIES OF WHO-LEGRAIN BREAD Ewa Jakubczyk Ewa Jakubczyk, Ewa Gondek, Dorota Witrowa-Rajchert, Aleksandra Antoniuk	P-1748	DESIGN, DEVELOPMENT AND TESTING OF A SCREW PRESSEXPELLER FOR PALM KERNEL AND SOYBEAN OIL EXTRACTION Adesoji Matthew Olaniyan Adesoji Matthew Olaniyan, Kamaldeen Yusuf, Adebayo LukumanWahab, Kunle Olamide Afolayan
P-1321	MONITORING LEAFY VEGETABLES THROUGH PACKAGING FILMS WITH HYPERSPECTRAL IMAGES Belen Diezma Iglesias Belén Diezma Iglesias, Miguel Angel Lara, Marta Molina, LourdesLleó, Margarita Ruiz-Altisent, Francisco Artés, Jean M Roger	P-1778	NIR SPECTROSCOPY FOR DETECTION AND QUANTIFICATIONOF ADULTERANTS IN FRESH AND THAWED MINCED BEEF USING LINEAR AND NON-LINEAR MODELS Gamal ElMasry Noha Morsy, Gamal M. Elmasry, Da-Wen Sun
P-1345	CHLOROPHYLL IN SUGAR CANE CULTIVATED IN DIFFERENT LEVELS OF NITROGEN AND MOLYBDENUM IN THE FINAL STAGE OF DEVELOPMENT ARLINGTON Ricardo Ribeiro De Oliveira Arlington Ricardo Ribeiro De Oliveira, Ronaldo Nascimento, Maiene De Fátima Cordeiro Queiroga, Sabrina Cordeiro De Lima	P-1851	QUICK QUALITY EVALUATION OF CHILEAN GRAPE BY APORTABLE VIS/NIR DEVICE Roberto Beghi Roberto Beghi, Aira Mena, Valentina Giovenzana, Raffaele Civelli, Stanley Best, L.F. León G., Riccardo Guidetti,
P-1370	NON DESTRUCTIVE DETECTION OF INTERNAL BROWN SPOT IN POTATOES BY TIME-RESOLVED REFLECTANCE SPECTROSCOPY: PRELIMINARY RESULTS ON SUSCEPTIBLE CULTIVAR Alessandro Torricelli Maristella Vanoli, Anna Rizzolo, Lorenzo Spinelli, Bruno Parisi,Alessandro Torricelli	P-2012	ON-LINE UV-C PROTOTYPE FOR POSTHARVEST ANTIFUNGAL TREATMENT OF CITRUS FRUITS Carlos Adrados Blaise Salvador Ibiza Mauri, Clara Montesinos Herrero, Lluís Palou Valls,Carlos Adrados Blaise
P-1388	ESTIMATED SUGAR LOSS DUE TO MECHANICAL HARVESTING AND POSTHARVEST PROCESS Heydar Mohammed Ghasem Nejad Maleki Heydar Mohammad-Ghasem Nejad Maleki	P-2021	EFFECTS OF PRE-DRYING ON INFRARED DRYING OF YACON ROOTS Rafael Augustus de Oliveira Rafael Augustus de Oliveira, Auro Augusto Araujo, Carolina MaríaSánchez Sáenz, Kil Jin Park
P-1490	RELATIONSHIP BETWEEN SOLAR RADIATION AND WATERCORE ON APPLE FRUIT ASSESSED WITH MRI Pilar Barreiro Angela Melado, Miguel Angel Muñoz-garcía, Pilar Barreiro Elorza,Alvaro Blanco, Jesus Val, María Encarnación Fernández-Valle	P-2061	SURVEYING MICROBIOLOGICAL QUALITY OF CHILLED READY TO EAT SEAFOOD MARKETED IN ISTANBUL Didem Ucok Alakavuk Didem Ucok Alakavuk, Suhendan Mol
P-1627	POTATOES PHYSICAL PROPERTIES RESEARCHING IN MECHANIZED HARVESTING (AGERIA VARIETY) Negar Ahangarnezhad Negar Ahangarnezhad, Morteza Malek Yarand, MaryamShirmohammadi, Gholam Reza Chegini, Reza Alimardani, Amir Zaki	P-2069	NOVEL METHODS FOR THE MONITORING OF POSTHARVEST CHANGES OF DIFFERENT PEAR CULTIVARS Jozsef Felfoldi Jozsef Felföldi, Tamas Zsom, Viktoria Zsom-Muha, Denes LajosDenes, Hella Ecsedi
P-1666	WATER DESORPTION THERMODYNAMIC PROPERTIES OF PAPAYA Louise Emly Kurozawa Louise Emly Kurozawa, Rafael Augustus Oliveira, Miriam DupasHubinger, Kil Jin Park	P-2072	FRESH PRODUCE SAFETY IN THE POSTHARVEST HANDLING CHAIN: CHANGES AND CHALLENGES Jorge M Fonseca Jorge Fonseca
		P-2106	USE OF MULTISPECTRAL INFORMATION TO PREDICT PHENOL CONTENT AND ANTIOXIDANT ACITIVITY OF FRESH-CUT APPLES (CV. STARK RED) Maria Luisa Amadio Maria Luisa Amadio, Giancarlo Colelli

P-2177	OSMODEHYDROFREEZING OF STRAWBERRY FRUITS AND STUDIES ON QUALITY CHARACTERISTICS OF THE PRODUCTS Reihaneh Ahmadzadeh Ghavidel Reihaneh Ahmadzadeh Ghavidel, Mehdi Ghiafeh Davoodi, Maryam Ameli	P-1128	DETERMINATION OF VITAMIN C IN TERAHERTZ REGION USING PRINCIPAL COMPONENT ARTIFICIAL NEURAL NETWORKS (PCANN) Diding Suhandy Diding Suhandy; Meinilwita Yulia; Yuichi Ogawa; Naoshi Kondo
P-2183	APPLICATION OF OSMODEHYDROFREEZING OF KIWI FRUITS AND STUDIES ON QUALITY CHARACTERISTICS OF THE PRODUCTS Mehdi Ghiafeh Davoodi Mehdi Ghiafeh Davoodi, Reihaneh Ahmadzadeh Ghavidel, VajihehNouri Golkhandan	P-1138	COMBINED MICROWAVE-FLUIDIZED BED DRYING OF MOIST GRANULAR PARTICLES: CFD MODELING AND VALIDATION Dariush Zare Dariush Zare; Mohsen Ranjbaran
P-2190	APPLICATION OF IMPEDANCE SPECTROSCOPY TO THE EVALUATION OF THE THERMAL PROCESSING OF CHICKEN BREAST CUTS Franciny Schmidt Franciny Schmidt, Ana Fuentes, José Manuel Barat, Joao BorgesLaurindo, Rafael Masot, Miguel Alcañiz	P-1010	FRESH CUT CASSAVA SUBJECTED TO ELECTRONS ACCELERATOR RADIATION Rogério Vieites Lopes Rogério Vieites Lopes; Érica Regina Daiuto; Lidia Raquel De Carvalho; Viviane Cidade Russo; Ligia Mourigushi Watanabe
P-2243	EFFECT OF 1-METHYLCYCLOPROPENE (1-MCP) ON QUALITY PRESERVATION IN POSTHARVEST BROCCOLI (BRASSICAO-LERACEA VAR. ITALICA) Eriko Yasunaga Eriko Yasunaga, Toshitaka Uchino	P-1162	INFLUENCE OF NON-DIRECT PLASMA TREATMENT ON TOTAL VIABLE COUNT AND QUALITY ATTRIBUTES OF FRESH PORK Martin Geyer Antje Fröhling; Julia Durek; Uta Schnabel; Jörg Ehlbeck; Janina Bolling; Oliver Schlüter; Martin Geyer
P-2262	DELAYED STORAGE AND REFRIGERATION OF ?RAINHA CLÁUDIA VERDE? PLUMS: INSTRUMENTAL AND SENSORY ANALYSIS Ana Elisa Rato Ana Elisa Rato	P-1542	EXTRACTION OF ANTIOXIDANT PHENOLIC COMPOUNDS FROM SALAK FRUIT Sze Pheng Ong Sze Pheng Ong, Chung Lim Law
P-2302	EFFECT OF HONEY CONCENTRATION ON PHYSICAL PROPERTIES, STRUCTURAL PROPERTIES AND SORPTIONISOTHERM OF SPRAY-DRIED MILK POWDER. Vikas Nanda Vikas Nanda, Savita Sharma, Manoj Tyagi	P-1423	HEAVY METAL LEVELS IN FISH SPECIES FROM THE GOLDEN HORN, TURKEY Özkan Özden Özkan Özden, Arif Kaygusuz, Sehnaz Tosun Yasemin, AhmetYüceokur
P-2318	MANAGEMENT SPATIAL VARIABILITY OF AMBIENT FACTORS IN COLD STORES Serap Akdemir Serap Akdemir	P-1474	PHYSIOLOGICAL QUALITY MAINTENANCE OF SEEDS OF PHASEOLUS VULGARIS TREATED WITH VEGETABLE OILS Maiene de Fátima Cordeiro de Queiroga Queiroga Maiene De Fátima Cordeiro De Queiroga, Josivanda Palmeira, Gomes, Arlington Ricardo Ribeiro De Oliveira, Gilmara Gurjão Carneiro Carneiro
P-2362	A GENETIC ALGORITHM APPROACH IN HOT AIR DRYING OPTIMIZATION OF ROSA PETALS BASED ON NEURAL NETWORK MODELLING Ahmad Banakar S. Razi Karimi Akandi, Ahmad Banakar	P-2057	DETERMINATION OF ENTEROBACTERIACEAE ON HORSE MACKEREL (TRACHURUS TRACHURUS) SOLD IN ISTANBULDISTRICT BAZAARS Sehnaz Yasemin Tosun Sehnaz Tosun Yasemin, Didem Ucok Alakavuk, Suhendan Mol
P-1893	GLASS TRANSITION TEMPERATURE OF ISTAMARAN CULTIVAR DATE POWDER Morteza Sadeghi Esmaeil Arragtea, Morteza Sadeghi, Jalil Razavi, Ali Nasirpour	P-0447	EFFECT OF DIFFERENT PROTEIN-BASED EDIBLE COATING FILMS ON QUALITY AND SHELF LIFE OF REFRIGERATED SEA-BASS (DICENTRARCHUS LABRAX) Nuray Erkan Özden Nuray Erkan Özden, Seda Dursun, Safak Ulusoy, Selinakcay, Murat Yesiltas
P-2250	QUANTITATIVE DETERMINATION OF USED EMULSIFIERS INDOUGH FOR STRENGTHENING GLUTEN AND STARCH COMBINATION Mahdi Karimi Mahdi Karimi, Mehdi Ghiafeh Davoodi, Zahra Sheikholeslami, Bahareh Sahraiyan, Fariba Naghipoor		

135 SESSION

14:30 -15:25 **SPC-02 POSTERS SESSION**

Location: POSTERS ROOM

- P-0107 EXPERIMENT AND OPTIMIZATION OF LARGE-SCALE DOUBLE SUCTION PUMP WITH SEMI-VOLUTE SUCTION CHAMBER
Wang xiuli Wang
Wang xiuli Wang, Chen jingjun Chen, Yuan Shouqi Yuan, ZhuRongsheng Zhu, chen jing jun chen jing jun
- P-0238 OPTIMIZATION OF AIR CONDITIONING DIFFUSERS LOCATION IN LARGEAGRICULTURAL WAREHOUSES USING CFD TECHNIQUES
Daniel Valero Huerta
Daniel Valero Huerta, R García-Bartual
- P-0558 CFD SIMULATION OF WATER EVAPORATION IN CLASS-A PAN WITH A TRANSIENT ANALYSIS
Bernardo Martin-Gorriz
Pablo Vidal, Bernardo Martin-Gorriz, Victoriano Martínez-Alvarez,Belen Gallego-Elvira
- P-0958 NUMERICAL STUDIES OF THE FLUID FLOW BETWEEN THE PLATES OF THE HEAT EXCHANGER IN THE ANALYSIS OF CIP CLEANING CONDITIONS
Joanna Piepiorka Stepuk
Joanna Piepiorka Stepuk, Marek Jakubowski
- P-1059 MODELING AND SIMULATION OF TRANSIENT RESPONSE OF TEMPERATURE AND RELATIVE HUMIDITY SENSORS WITH HOUSING AND WITHOUT IT
José Helvecio Martins
Keller Sullivan Oliveira Rocha, José Helvecio Martins, Marcio ArêdesMartins, Jairo Alexander Osorio Saraz, Luiz Henrique MartinsFernandes
- P-1131 A CFD PLATFORM FOR BIOCONVERSION OF BIOMASS TO BIOGAS
Binxin Wu
Binxin Wu, Todd Hutchinson
- P-1331 EVALUATION OF A FUNGICIDE FOGGING SYSTEM FOR POSTHARVEST TREATMENTS OF FRUITS
Pieter Verboven
Pieter Verboven, Thijs Defraeye, Alemanyehu Ambaw, Bert Tijskens,Bart Nicolaï
- P-1581 SIMULATION OF THE PROFILE OF LOSS IN CHARGE OF AIR FLOW IN A CHAR-COAL FIXED BED
Ivanildo da Silva dos Santos
Ivanildo Siva dos Santos, Marcelo P. Coelho, Emanuele GraciosaPereira, Mário Aredes Martins, Angélica de Cássia O. Carneiro

P-1637 COUPLING GLOBAL AND DISTRIBUTED CLIMATE MODELS TO BETTER ASSESS HEAT TRANSFERS THROUGH THE COVER OF A GREENHOUSE

Lazhar Serir

Lazhar Serir; Pierre Emmanuel Bournet; Amor Bouhdjar

P-1638 UTILIZATION OF LIQUID NITROGEN FOR REFRIGERATION AND ATMOSPHERE MODIFICATION IN THE GRAIN STORAGE: A SIMULATION

Marcio Martins Aredes

Daniel Carvalho Rizzo, Ivanildo da Silva dos Santos, GuillermoVargas, Márcio Arêdes Martins, Ana Paula Sato Ferreira

P-2181 CFD STUDY OF THE HEAD LOSS REDUCTION BY NEUTRAL VANE IN HIGH EFFICIENCY CYCLONES

Diego Pinheiro Fagundes

Diego Pinheiro Fagundes, Marcelo Pereira Coelho, Marcio AredesMartins, Michel Oliveira dos Santos, Lucas De Paula Corredo

136 SESSION

14:30 -15:25 **SPC-07 POSTERS SESSION**

Location: POSTERS ROOM

P-0323 MECHANICAL PROPERTIES OF POTATO STARCH MODIFIED BY MOISTURE CONTENT AND ADDITION OF LUBRICANT

Mateusz Stasiak

Mateusz Stasiak, Marek Molenda

P-0626 EXPERIMENTAL AND NUMERICAL STUDIES ON UNIAXIAL COMPRESSION BEHAVIOR OF SLIGHTLY OBLONG PARTICLES AT CROSSOVER FROM QUASI-2D TO 3D

Piotr Parafiniuk

Piotr Parafiniuk, Joanna Wiacek, Józef Horabik, Marek Molenda

P-1154 ANALYSIS OF MECHANICAL PROPERTIES OF VENTED CORRUGATED CONTAINER FOR FRESH HORTICULTURAL PRODUCE BY FINITE ELEMENT METHOD

Pankaj B. Pathare

Pankaj B. Pathare, Umezuruike Linus Opara, Mulugeta AdmasuDeletele

P-1754 DESIGN CRITERIA FOR STRUCTURAL DESIGN OF SILAGE SILO WALLS

Hans von Wachenfelt Einar

Hans von Wachenfelt Einar, Christer Nilsson

P-1832 WET GRANULAR FLOWS REGISTERED IN SILO MODELS

Irena Sielamowicz

Irena Sielamowicz, Tomasz A. Kowalewski

P-1858	COMPOSITE SILOS FOR STORING GRANULAR MATERIALS Irena Sielamowicz Irena Sielamowicz	P-1512	TOOLS OF LEARNING ENGINEERING ETHICS TO UNIVERSITY STUDENTS Mohamed Y. E. Selim Mohamed Y. E. Selim, Mohamed A. Al-Bayywomi
P-2237	FLOW PROPERTIES OF POWDER FOOD MATERIALS José Wallace Nascimento José Wallace Nascimento, José Wallace B. Nascimento, José Pinheiro Lopes Neto, Valneide R. Silva	P-1590	TRAINING OF WORKFORCE IN THE SUGAR AND ALCOHOL SECTOR Lidiâne Aparecida Kanesiro Lidiâne Aparecida Kanesiro, Mario Otávio Batalha, Alini Alves Moreira, Janaína Cristina Kanesiro, Maria Amália Brunini
P-2239	MOMENT NONUNIFORM IN WALLS OF STEELSILOS WITH DIFFERENT RATIO H/D José Wallace Nascimento José Wallace Nascimento, José Wallace Nascimento, Michael D. Montross	P-1673	A SURVEY TO EVALUATE GENERIC SKILLS OF AGRICULTURAL ENGINEERING STUDENTS Nemesio Fernández Martínez Salvador Calvet Sanz, Andrea Conchado, Fernando Estellés Barber, Sara Ibáñez, María Vargas, Ana Jiménez-Belenguer, Héctor Moreno, José Miguel Carot, Nemesio Fernández Martínez,
P-1757	UNSYMMETRICAL FRICTION FORCES IN VERTICAL SILO WALLS José Wallace Barbosa Nascimento José Pinheiro Lopes Neto; José Wallace Barbosa Nascimento	P-1960	EFFECTS OF ABIOTIC STRESS FACTORS ON PHYSIOLOGICAL PARAMETERS OF CROPS Elif Ozdemir Elif Ozdemir, Bayram Sade
		P-1912	SPECIFIC AND CROSSCURRICULAR COMPETENCES IN THE ENGINEERING AND ARCHITECTURE DEGREES IN SPAIN. COMPARISON BETWEEN SEVERAL ENGINEERING AND THE DEGREES OF AGRONOMIC STUDIES AND FORESTRY Ignacio Cañas Guerrero Ignacio Cañas Guerrero; César Porras Amores; Jaime Cid Falceto; Andrés Porras; María Angeles Ruiz Sanchez

137 SESSION

14:30 -15:25
(ED): POSTERS SESSION
Location: POSTERS ROOM

P-0144	ROCK BIOFERTILIZER WITH EARTHWORM COMPOUND ENRICHED IN N BYDIAZOTROPHIC BACTERIA AND MYCORRHIZA PROVIDE NUTRIENTS FOR PLANTS Newton Stamford Pereira Newton P Stamford, Monaliza Mirella M. Andrade, Carolina Etienne R. S. Santos, Luciana Oliveira Franco, Thayza Christína Montenegro Stamford, Tânia Lúcia Montenegro Stamford
P-0184	VALUATION OF THE WORKLOAD OF STUDENTS ENROLLED IN THE FIRST DEGREE OF NEW COURSES ADAPTED TO ECTS IN EUIT AGRICOLA (TECHNICAL UNIVERSITY OF MADRID) Eutiquio Gallego Vazquez Eutiquio Gallego, Virginia Diaz-Barcos, Eva Cristina Correa, Paloma García-Rebolilar, Antonio Callejo
P-0537	PERSONALISED KNOWLEDGE REPRESENTATION IN HORTICULTURAL ENGINEERING Anne Kersebaum Anne Kersebaum, Thomas Rath
P-0884	TEACHING IN LANDSCAPE Cruz Calleja Perucho Cruz Calleja Perucho, Ana Pou Merina, María Ángeles Ruiz Sánchez, Ignacio Cañas Guerrero, Jaime Cid Falceto

138 SESSION

14:30 -15:25
(SPC-03): POSTERS SESSION
Location: POSTERS ROOM

P-0127	LOCATION OF PLANT STEM EMERGING POINTS IN IMAGES OF SUGAR BEETS IN EARLY GROWTH STAGES Henrik Skov Midtiby Henrik Skov Midtiby, Thomas Moesgaard Giselsøn, Rasmus Nyholm Jorgensen
P-0270	IMAGE ANALYSIS: A TOOL FOR CLASSIFICATION OF FEATHERS OF BIRDS OF PREY Jose Blasco A. Yona Solís-Ceja, José Jorge Chanona Pérez, Marcela Vergara-Onofre, María de Lourdes Alonso-Spilsbury, José Blasco Ivars

P-0464	EXAMINATION OF RECOGNITION / WORK RECORD OF AGRICULTURAL BASIC INFORMATION USING COMPUTER VISION FOR AGRICULTURAL ROBOT WHICH EXTRACTS TACIT KNOWLEDGE Yutaka Sasaki Yutaka Sasaki, Sakae Shibusawa, Hanako Negishi
P-0556	ANALYSIS OF CITRUS FRUIT DETACHED WITH ANUNIDIRECTIONAL SHAKER BY MEANS OF ARTIFICIAL VISION Antonio Torregrosa Mira Antonio Torregrosa Mira, Francisco Albert Gil, Nuria Aleixos Borrás, Coral Ortiz Sánchez, José Blasco Ivars
P-0712	COMPUTER VISION BASED SYSTEM FOR GROWTH ANALYSIS OF LACTUCA SATIVA VAR. HIERRO José Miguel Molina Martínez Daniel García Fernández-Pacheco, David Escarabajal Henarejos, Ramón López Urrea, Antonio Ruiz-Canales, Leandro Ruiz-Peñalver, José Miguel Molina Martínez
P-1136	CAMERA KINETIC MODEL APPLIED TO CROP ROW TRACKING AND WEED DETECTION Gonzalo Ruiz Ruiz Gonzalo Ruiz Ruiz, Luis Manuel Navas Gracia, Jaime Gómez Gil
P-1380	ORCHARD AND TREE MAPPING AND DESCRIPTION USING STEREO VISION AND LIDAR Michael Nielsen Michael Nielsen, David C. Slaughter, Chris Glierer, Shrini Upadhyaya
P-1448	LOW-COST IMAGE ANALYSIS METHOD TO QUANTIFY ROOT SURFACE AREA Jorge Lampurlanes Castel Daniel Plaza-Bonilla, Carlos Cantero-Martínez, Jorge Álvaro-Fuentes, Jorge Lampurlanes Castel
P-1789	DETERMINATION OF WEED COVERAGE PERCENTAGE USING DIGITAL IMAGES Mário Cupertino da Silva Júnior Mário Cupertino Da Silva Júnior, Francisco De Assis De Carvalho Pinto, Daniel Marçal de Queiroz, Gonzalo Ruiz Ruiz, Jaime Gómez Gil, Luis Manuel Navas Gracia
P-2016	USE OF SPATIAL ANALYSIS TOOLS FOR GROUNDCOVER ESTIMATION AND IRRIGATION MANAGEMENT IN WATER USERS ASSOCIATION Ester López Pérez Ester López, Miguel Ángel Jiménez-Bello, Juan Manzano, Virginia Palau, Diego S. Intrigliolo, Alvaro Royuela

P-2074	PRELIMINARY STUDY ON MEASUREMENT OF THE THICKNESS OF THE WHEAT'S SEED COAT BASED ON INFRA-RED MICROIMAGING Lianlian Chen Lianlian Chen Chen, Dazhou ZHU Zhu, Pingzhou Li Li, Cheng Wang Wang
P-2366	USING NEURAL NETWORKS FOR MAINTENANCE TASKS IN AGRICULTURE: PRECISE WEED DETECTION Gabriel Recatalá Patricio Nebot, Joaquín Torres-Sospedra, Gabriel Recatalá

139 SESSION

15:25 -17:00
(PM): TILLAGE FORCES II
Moderator: Simone Bergonzoli / Luis Val
Location: AUDITORIO 1

15:25	Introduction
15:30	C-0123 EFFECT OF A MODIFIED AND COMMON DISC OPENERS ON SOIL FAILURE AND FORCES USING IN DIRECT PLANTING Arzhang Javadi Arzhang Javadi, Reza Mohamadigol, Esmaeil Seyed
15:45	C-1018 A THREE-POINT HITCH DYNAMOMETER FOR LOAD MEASUREMENTS BETWEEN TILLAGE IMPLEMENTS AND AGRICULTURAL TRACTORS DURING OPERATION Jordi Pijuan Cases Jordi Pijuan Cases, Jordi Berga, Martí Comellas, Xavi Potau, Joan Roca
16:00	C-0458 CONSERVATION AGRICULTURE IN DRY AREAS OF MOROCCO: RATIONAL FOR AGRICULTURAL SUSTAINABILITY UNDER CLIMATE AND SOCIO-ECONOMIC CHANGE Rachid Mrabet Rachid Mrabet
16:15	C-2354 EFFECT OF ORGANIC AND INORGANIC NITROGEN AMENDMENTS AND CROP ROTATION ON TILLAGE ENERGY IN A CLAY LOAM SOIL Neil McLaughlin Neil McLaughlin, Aizhen Liang, Bao-Luo Ma, Edward Gregorich, Malcolm Morrison, Stephen Burtt, Scott Patterson, Lynne Evenson
16:30	C-2352 THE EFFECT OF PLANT GROWTH PROMOTING RHIZOBACTER STRAIN ON WHEAT YIELD AND QUALITY PARAMETERS Metin Turan Metin Turan, Medine Gulluce, Fikrettin Sahin, Guleray Agar

140 SESSION

15:25 -17:00
**(SW-SPC01): PLANT WATER
RELATIONSHIPS**
 Moderator: Diego Intrigliolo
 Location: AUDITORIO 2

15:25	Introduction
15:30 C-1620	MODELS OF CROP GROWTH AND REMOTE SENSING FOR ESTIMATING CROP YIELD IN IRRIGATED AGRICULTURE Enrique Palacios-Vélez Enrique Palacios-Vélez, Luis Alberto Palacios-Sánchez, Enrique Mejía-Saenz
15:45 C-2065	EFFECT OF SUBSURFACE DRIP IRRIGATION ON MOISTURE DISTRIBUTION, ROOT GROWTH AND PRODUCTION OF CAULIFLOWER Uday Khodke Uday Khodke, D. B. Patil
16:00 C-1224	WICK IRRIGATION SYSTEM USING SELF-COMPENSATED BENCHES FOR LETTUCE PRODUCTION Rhuanito Soranz Ferrarezi Rhuanito Soranz Ferrarezi, Roberto Testezlaf
16:15 C-1536	IRRIGATION MANAGEMENT SYSTEM FOR OLIVE ORCHARDS AND VINEYARDS Samuel Ortega-Farias Samuel Ortega-Farias, Marcos Carrasco, Fernando Flores
16:30 C-2263	EFFECT OF CONSERVATION TILLAGE AND IRRIGATION METHODS ON THE CROP YIELD AND WATER USE EFFICIENCY IN WHEAT-CORN ROTATION Sadegh Afzalinia Sadegh Afzalinia, Ebrahim Dehghanian

141 SESSION

15:25 -17:00
**(SPC-05): BIOAEROSOLS
AND AIRBORNE PATHOGENS**
 Moderator: Eileen Wheeler
 Location: AUDITORIO 3A

15:25	Introduction
15:30 C-1300	DETECTION OF AIRBORNE SALMONELLA spp. IN POULTRY FARMS USING IMPINGEMENT: CULTURE-DEPENDENT VS. CULTURE-INDEPENDENT METHODS María Cambra-López Elisa Adell, Verónica Moset, Yang Zhao, Ana Jiménez, Alba Cerisuelo, María Cambra-López

15:45	C-0998	SHEDDING AND EMISSION OF AIRBORNE VIRAL MICROORGANISMS FROM ANIMAL HOUSES Yang Zhao Yang Zhao, André J. A. Aarnink, María Cambra-López, Teun Fabri
16:00	C-1281	ASSESSMENT OF INSTRUMENTATION EFFICIENCY FOR DETECTING AIRBORNE VIRUS Taehwan Ha Taehwan Ha, In-bok Lee
16:15	C-1567	QUANTIFICATION OF ENVIRONMENTAL CONDITIONS IN AUSTRALIAN LIVESTOCK BUILDINGS Thomas Banhazi Thomas Banhazi
16:30	C-1769	AIRBORNE PARTICLES IN ANIMAL HOUSES Huong Lai Huong Lai, André J. A. Aarnink, María Cambra-López, Thuy T. T. Huynh, Henk K. Parmentier, Peter W. G. Groot Koerkamp
16:45	C-0968	EMISSIONS AND CONCENTRATIONS OF DUST AND PATHOGENS FROM GOAT HOUSES Andre Aarnink André J. A. Aarnink, María Cambra-López, Hendrik Jan Roest, Yang Zhao, Julio Mosquera, Nico W. M. Ogink

142 SESSION

15:25 -17:00
**(SPC05): AMMONIA EMIS-
SIONS FROM ANIMAL
HOUSING**
 Moderator: Salvador Calvet
 Location: AUDITORIO 3B

15:25	Introduction
15:30 C-2246	EMISSIONS CALCULATED FROM PARTICULATE MATTER AND GASEOUS AMMONIA MEASUREMENTS FROM A COMMERCIAL DAIRY IN CALIFORNIA, USA Kori Moore Kori Moore, Christian Marchant, Randy Martin, Michael Wojcik, Emryei Young, Richard Pfeiffer, John Prueger, Jerry Hatfield,
15:45 C-2245	AMMONIA EMISSIONS FROM A PIG BREEDER FACILITY IN THE OKLAHOMA PANHANDLE Ken Casey Ken Casey, Erin Cortus, Al Heber, Al Caramanica

16:00	C-0965	COMPARISON OF AMMONIA EMISSIONS FROM POULTRY HOUSES BASED ON DIURNAL INTEGRATION VS. DAILY MEANS OF GAS CONCENTRATION AND BUILDING VENTILATION RATE Yongxing Chen Yongxing Chen, Hongwei Xin, Hong Li, Tim Shepherd, Morgan Hayes, John Stinn, Robert Burns, Richard S. Gates, Hongmin Dong
16:15	C-0699	SPATIAL VARIABILITY OF AMBIENT AMMONIA IN THE VICINITY OF A BROILER FARM Kristina von Bobrutzki Kristina von Bobrutzki, Werner Berg, Merike Fiedler, Alaa Kiwan
16:30	C-1375	AMMONIA EMISSIONS FROM CHOPPED WILLOW VS. PINE SHAVINGS AS BEDDING FOR BROILER CHICKENS Michael Hile M. L. Hile, Eileen.F. Wheeler, Paul. H. Patterson
16:45	C-1338	EVALUATION OF ENZYME FEED ADDITIVE ON AMMONIA EMISSION FROM BROILERS Hong Li Hong Li, Stephen Collier, Williams Brown, Jeannine Harter-Dennis

15:25 -17:00
(EN): ENERGY EFFICIENCY IN AGRICULTURE III
Moderator: Fatima Batista
Location: MULTIPURPOSE IA

15:25	Introduction
15:30	C-0822 ENERGY BALANCE OF CEREALS UNDER MOROCCAN CONDITIONS Mohamed Ramah Ramah Mohamed Ramah, El Houssain Baali
15:45	C-0112 METHODOLOGY FOR ENERGY AND MATERIAL EMBODIMENT DETERMINATION IN THE LIFE CYCLE OF AGRICULTURAL MACHINERY Thiago Liborio Romanelli Thiago Liborio Romanelli, Edemilson José Mantoam
16:00	C-0456 ENERGY CONSUMPTION BY CONVENTIONAL RURAL TECHNOLOGIES & FEASIBILITY STUDY FOR SUPERSEDITION OF THESE RESOURCES WITH RENEWABLE SOURCES OF ENERGY Yaser Sahebi Yaser Sahebi, Morteza Amassi, Mohammad J. Sheikhdavoodi, Hushang Bahrami, Hosseyn Bakhoda, Nima Nasirian

16:15	C-0623	COMPARISON OF DIFFERENT WORK PROCESSES FOR HARVEST LOGISTICS OF SILAGE MAIZE Katja Heitkämper Katja Heitkämper, Andrea Wagner, Matthias Schick
16:30	C-0634	ELECTRIC DRIVES IN AGRICULTURAL MACHINERY Juergen Karner Juergen Karner, Heinrich Prankl, Florian Kogler

15:25 -17:00
(EN): LIQUID BIOFUELS
Moderator: Xin Wang
Location: MULTIPURPOSE IB

15:25	Introduction
15:30	C-0185 OPTIMIZATION OF BIODIESEL PRODUCTION FROM HAEMATOCOCCUS PLUVialis USING RESPONSE SURFACE Lanfang Zhang Jiajie Xu, Antonio Galan, Jun Zhou, Shujun Li, Fengmin Zhao, Xiurong Su
15:45	C-0209 USING CARTHAMUS OXYACANTHA OIL METHYL ESTER AS BIODIESEL IN IRAN Hamid Mashhadimeghhani Hamid Mashhadimeghhani, Morteza Almasi, Alimohammad Borghei, Javad Azizian, Abdolvahed Khanahmadzade
16:00	C-0283 ANIMAL FATS BIODIESEL USES AS HEATING FUEL FOR AGRICULTURAL HOT AIR HEATER Youngjung Kim Youngjung Kim, Youngjin Kim, Seokho Park
16:15	C-1187 CLIMATE CHANGE IMPLICATIONS OF CROPPING PATTERN AND LAND USE CHANGES FOR ACHIEVING 15 BILLION GALLONS OF CORN ETHANOL Kyo Suh Kyo Suh, Taegon Kim, Sangwon Suh, Timothy Smith

15:25 -17:00
(IT):AUTOMATIC GUIDANCE I
Moderator: Michel Berducat
Location: MULTIPURPOSE 1C

15:25	Introduction
15:30	C-1429 AUTOMATION OF HYDROPONIC INSTALLATIONS USING A ROBOT WITH POSITION BASED VISUAL FEEDBACK Niels Tanke Niels Tanke, Guoming Long, Dhruv Agrawal, Abhinav Valada, George Kantor

15:45 C-0685 AUTOMATIC GUIDANCE OF AN OFF-ROAD MOBILE ROBOT WITH A TRAILER APPLICATION TO THE CONTROL OF AGRICULTURAL PASSIVE TOWED IMPLEMENTS
Christophe Cariou
 Christophe Cariou, Roland Lenain, Benoit Thuilot, Michel Berducat

16:00 C-0314 DESIGN OF AN AUTOMATIC SPRAYER IN GREENHOUSES CONDITION
Hamid Mashhadimeghani
 Hamid Mashhadimeghani, Davood kalantari, Alireza Rafigh

16:15 C-1455 GNSS RTK NETWORKS IN SELF-GUIDED SYSTEMS FOR AGRICULTURAL
Angel Felipe Pulido Moreno
 Juan Morillo Barragán, Angel Felipe Pulido Moreno, Julio Hernández Blanco

16:30 C-1978 AUTOMATION OF UNLOADING WORK SEARCHING AND DETECTING A GRAIN CONTAINER AND PROPER POSITIONING OF A HARVESTER'S SPOUT
Hiroki Kurita
 Hiroki Kurita, Michihisa Iida, Masahiko Suguri

146 SESSION

15:25 -17:00
(IT): SOIL PARAMETERS
 Moderator: Thomas Anken
 Location: ROOM 6+7

15:25 Introduction
 15:30 C-0411 FIELD SCALE MAPPING OF SOIL FERTILITY PARAMETERS BY COMBINATION OF PROXIMAL SOIL SENSORS
Michael Schirrmann
 Michael Schirrmann, Kramer Eckart, Robin Gebbers
 15:45 C-0155 BENEFITS OF VRA TECHNOLOGY BASED ON MOLE SOIL MAPS
Eddie Loonstra
 Eddie Loonstra
 16:00 C-1660 MEASUREMENT OF WATER VAPOUR EVAPORATION FROM SOIL SURFACE
Mikko Hakojärvi
 Mikko Hautala, Mikko Hakojärvi, Laura Alakukku
 16:15 C-1054 OPEN-SOURCE MODELICA-BASED MODELING AND SIMULATION FOR MEASURING SOIL MOISTURE CONTENT
Alan Kardék Régo Segundo
 Alan Kardék Régo Segundo, José Helvécio Martins, Paulo Marcos de Barros Monteiro

147 SESSION

15:25 -17:00
(PF): QUALITY DETECTION
 Moderator: Josse De Baerdemaeker
 Location: ROOM 1

15:25 Introduction
 15:30 C-1908 DEVELOPING OF AN AUTOMATED QUALITY FOOD CLASSIFIER FOR ?HALLULLA? CHILEAN BREAD TYPE BY COMBINING SENSORIAL EVALUATION AND COMPUTER VISION TECHNIQUES
Franco Pedreschi Plasencia
 Franco Pedreschi Plasencia, Salome Mariotti, Ivan Lillo, Natalia Quezada, Andrea Bunger
 15:45 C-0220 MACHINE VISION PROTOTYPE FOR ORANGE GRADING USING PHOTOTRANSISTOR
Ayman Amer Eissa Hafiz
 Ayman Hafiz Amer Eissa
 16:00 C-0661 AUTOMATED PARTICLE LENGTH DISTRIBUTION ANALYSIS OF FORAGE MATERIALS BY MEANS OF COMPUTER VISION
Christian Rechberger
 Christian Rechberger, Johann Prankl, Gerhard Obernberger, Heinrich Prankl, Franz Handler
 16:15 C-0305 NONDESTRUCTIVE DETECTION OF PESTICIDES ON FRUITS AND VEGETABLES USING A UV CAMERA SYSTEM
Yoshio Makino
 Yoshio Makino, Meilan Li, Seiichi Oshita, Yoshinori Kawagoe, Toshiaki Matsuoka, Kenji Hashimoto, Kazuo Arai

148 SESSION

15:25 -17:00
(PF) FOOD TECHNOLOGY III
 Moderator: Milagros Mateo
 Location: ROOM 4

15:25 Introduction
 15:30 C-1119 EFFECT OF CYTOCHALASIN B ON BIOSPECKLE ACTIVITY IN APPLE TISSUE
Andrzej Kurenda
 Andrzej Kurenda, Artur Zdunek
 15:45 C-1223 THE ROLE OF CHLOROPHYLL AND STARCH CONTENT IN BIOSPECKLE ACTIVITY OF APPLES
Artur Zdunek
 Artur Zdunek, Werner B. Herppich, Justyna Cybulska

16:00	C-2158	CHEMOMETRIC STUDY OF CELL WALL COMPOSITION OF DIFFERENT VEGETABLES Monika Szymanska-Chargot Monika Szymanska-Chargot, Artur Zdunek
16:15	C-2009	EFFECT OF HIGH HYDROSTATIC PRESSURE ON LACTIC BACTERIA GROWTH IN TURKEY HAM STORED AT NORMAL AND ABUSIVE REFRIGERATION TEMPERATURES Amauri Rosenthal Simone Pereira Mathias, Amauri Rosenthal, Arlene Gaspar, Glauzia M.F. Aragao

149 SESSION

15:25 - 17:00
(SPC02): MACHINE DESIGN AND PERFORMANCE II
Moderator: In-Bok Lee
Location: ROOM 2

15:25		Introduction
15:30	C-1085	AIR-SEEDS FLOW ANALYSIS IN A DISTRIBUTOR HEAD OF AN AIR DRILL SEEDER Medina Mabel Azucena Gastón Bourges, Gustavo Fabian Nardón, Mabel Azucena Medina
15:45	C-1236	CFD ANALYSIS ON THE PERFORMANCE OF AN OVERTURNABLE WATER GATE FOR RESERVOIR SPILLWAY In-bok Lee Se-woon Hong, In-bok Lee, Hyun-seob Hwang, Il-hwan Seo, Jessie Pascual Bitog Piog, Kyeong-seok Kwon
16:00	C-0963	COMPUTATIONAL FLUID DYNAMICS MODELLING OF ORCHARD SPRAYER PERFORMANCE: MACHINE TYPE AND OPERATIONAL PARAMETERS CHARACTERIZATION Ashenafi Tilahun Duga Ashenafi Tilahun Duga, Ayenew Melese Endalew, Nico Hendrickx, Tim Goossens, Donald Dekeyser, David Nuyttens, Bart Nicolai, Pieter Verboven, ,
16:15	C-1226	APPLICATION OF SMALL-SCALE WIND POWER SYSTEMN IN LIVESTOCK BUILDINGS Se-Woon Hong Se-Woon Hong, In-bok Lee, Hyun-seob Hwang, Il-hwan Seo, Jessie Pascual Bitog Piog, Kyeong-seok Kwon
16:30	C-1265	OPTIMUM DESIGN OF MICROALGAE CULTIVATION SYSTEM USING BUBBLE-COLUMN PHOTOBIOREACTOR Il-hwan Seo Il-hwan Seo, In-bok Lee, Hyun-seob Hwang, Se-woon Hwang, Jessie Pascual Bitog Piog, Kyeong-seok Kwon

16:45	C-0382	INVESTIGATION OF THE INFLUENCE OF METHANE IN CORN DUST EXPLOSION USING CFD. Janaína de Andrade Silva Janaína de Andrade Silva, Francisco Carlos Gomes, Jefferson Luiz Gomes Correa
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150 SESSION

15:25 - 17:00
(SPC07): DUST EXPLOSIONS AND MANAGEMENT
Moderator: Pedro Aguado
Location: ROOM 3

15:25		Introduction
15:30	C-1036	TEST SILO FOR DUST EXPLOSIONS Álvaro Ramírez Gómez Álvaro Ramírez-Gómez, Alberto Tascón, Pedro José Aguado, Francisco Ayuga
15:45	C-1065	SIMULATIONS OF DUST EXPLOSIONS IN A 16 M3 SILO Alberto Tascón Alberto Tascón, Ángel Ruiz, Ángel Couto, Pedro José Aguado
16:00	C-0371	DUST EXPLOSION RISK DURING GRAPHITE-MODERATED REACTORS DECOMMISSIONING Sophie Trelat Sophie Trelat
16:15	C-0461	ANALYSIS OF THE PRESSURE EFECTS IN CORN DUST EXPLOSION USING COMPUTACIONAL FLUID DYNAMIC Janaína de Andrade Silva Janaína de Andrade Silva, Francisco Carlos Gomes, Jefferson Luiz Gomes Correa
16:30	C-0143	EFFECTIVE TRANSFER CHUTE DESIGN INCLUDING DUST CONTROL FOR HANDLING GRAINS AND OTHER PRODUCTS Tim Donohue Tim Donohue, Alan Roberts, Craig Wheeler, Dusan Ilic, Andre Katterfeld
16:45	C-1894	EXPLOSION PROTECTION IN GRAIN HANDLING FACILITIES: FROM COUNT MOROZZO TO COMPUTATIONAL FLUID DYNAMICS. Trygve Skjold Trygve Skjold

151 SESSION

15:25 - 17:00
(SPC06): WIRELESS COMMUNICATION IN AGRICULTURE
Moderator: Esmaeil Nadimi
Location: ROOM 5

15:25		Introduction
15:30		Techical speaker: Tarokh Vahid

16:10	C1561	ASSESSING THE DYNAMIC BEHAVIOR OF WSN MOTES AND RFID SEMI-PASSIVE TAGS FOR TEMPERATURE MONITORING
16:25	C-0333	BASE STATION DESIGN AND ARCHITECTURE FOR WIRELESS SENSOR NETWORKS David Kohanbash David Kohanbash, Abhinav Valada, George Kantor
16:40		Round table I: Vahid Tarokh, Enrique Molto, Esmaeil Nadimi

152 SESSION

15:25 -17:00
(SPC03): IMAGING OUTDOORS
 Moderator: David Slaughter
 Location: ROOM 8+9

15:25		Introduction
15:30	C-0380	RECOGNITION OF IMMATURE GREEN CITRUS FRUIT UNDER DIFFERENT OUTDOOR CONDITIONS Won Suk Lee Subhajit Sengupta, Won Suk Lee
15:45	C-0150	AUTOMATIC DETECTION OF TULIP BREAKING VIRUS (TBV) IN TULIP FIELDS USING MACHINE VISION Gerrit Polder Gerrit Polder, Gerie (W.A.M.) van der Heijden, Joop van Doorn, Ton (A. H. M. C.) Baltissen
16:00	C-0954	CHARACTERIZATION OF VINEYARD'S CANOPY THROUGH FUZZY CLUSTERING AND SVM OVER COLOR IMAGES Christian Correa Farias Christian Correa, Constantino Valero, Pilar Barreiro Elorza
16:15	C-1417	MULTISPECTRAL IMAGE ANALYSIS FOR GRAPEVINE'S DISEASES AUTOMATIC DETECTION IN FIELD CONDITIONS Roberto Oberti Paolo Tirelli, Massimo Marchi, N. Alberto Borghese, roberto oberti
16:30	C-0360	FRUIT DETECTABILITY ANALYSIS FOR DIFFERENT CAMERA POSITIONS IN SWEET-PEPPER Jochen Hemming Jochen Hemming, Jos Ruizendaal, Jan Willem Hofstee, Eldert J. van Henten
16:45	C-2353	IMAGE ANALYSIS TECHNIQUES APPLIED TO CANOPIES, BERRIES, PLANT TISSUES AND LEAVES. Sigfredo Fuentes Sigfredo Fuentes, Roberta De Bei, Stephen D. Tyerman

153 SESSION

17:25-19:00
(PM): CONSERVATION TILLAGE I

Moderator: Joan Roca
 Location: AUDITORIO 1

17:25		Introduction
17:30	C-0298	A POWERED ROLLER/CRIMPER FOR WALK-BEHIND TRACTORS TO TERMINATE COVER CROPS IN CONSERVATION AGRICULTURE Ted Kornecki S. Ted Kornecki S.
17:45	C-0523	TRACTORS AND MACHINERIES FOR CONSERVATIVE SOIL TILLAGE IN CLIMATE CHANGE CONDITIONS Simone Bergonzoli Pieranna Servadio, Simone Bergonzoli
18:00	C-1257	COMPARING CONSERVATION AND CONVENTIONAL TILLAGE METHODS IN CORN-WHEAT ROTATION Sadegh Afzalinia Sadegh Afzalinia, Alidad Karami, Mansoor Alavimash

155 SESSION

17:25-19:00
(SPC-05): ANIMAL HEAT & MOISTURE EXCHANGE
 Moderator: Tami Brown-Brandl
 Location: AUDITORIO 3A

17:25		Introduction
17:30	C-1478	Heat and Moisture Production of Commercial Broilers under Pad Cooling or Surface Wetting in Summer Yi Liang Yi Liang
17:45	C-1481	BIOENERGETICS OF HY-LINE BROWN HENS IN AVIARY HOUSES Morgan Hayes Morgan Hayes, Hongwei Xin, Hong Li, Timothy Shepherd, Yongxing Chen, Yang Zhao, John Stinn,
18:00	C-2234	THERMOREGULATORY RESPONSES OF DAY-OLD CHICKENS SUBMITTED TO SIMULATED TRANSPORT CONDITION: 2. EFFECT OF EXPOSURE TIME UNDER DIFFERENT THERMAL RANGES Frederico Vieira Frederico Vieira, Iran Silva, Késia Silva, Aérica Cirqueira Nazareno, Juliano Camargo, Afrânia Vieira
18:15	C-1450	HEAT LOSS IN LACTATING SOWS UNDER DIFFERENT VENTILATION SYSTEMS AND DIETS DURING SUMMER Eliene Justino Eliene Justino, Irenilza De Alencar Naas, Diego Pereira Neves, Douglas D'alessandro Salgado

156 SESSION

17:25-19:00
**(SPC-05): AMMONIA & PM
EMISSIONS MODELING**

Moderator: Dennis Schulte
Location: AUDITORIO 3B

- 17:25 Introduction
- 17:30 C-1323 SIMULATANEOUS MONITORING & CONTROL OF PIG GROWTH AND AMMONIA EMISSIONS
Theo Demmers
Theo Demmers, Yi Cao, Sophie Gauss, David Parsons, Christopher Watthes
- 17:45 C-1216 SENSITIVITY ANALYSIS OF A MECHANISTIC MODEL FOR THE AMMONIA EMISSION OF DAIRY COW HOUSES
Dennis Snoek
Dennis Snoek, Nico W. M. Ogink, P.w.g. Groot Koerkamp
- 18:00 C-0959 AMMONIA EMISSION FACTORS MODELLING FOR A NATURALLY VENTILATED DAIRY HOUSING SYSTEM WITH CUBICLES, SOLID FLOORS AND AN OUTDOOR EXERCISE AREA
Sabine Schrade
Sabine Schrade, Lorenz Gygax, Margret Keck
- 18:15 C-0673 RESIDENTIAL EXPOSURE TO OUTDOOR AIR POLLUTION FROM LIVESTOCK OPERATIONS AND PERCEIVED ANNOYANCE AMONG CITIZENS
Victoria Blanes-Vidal
Victoria Blanes-Vidal, Helen Suh, Esmaeli S. Nadimi, Per Lofstrom, Thomas Ellermann, Helle Andersen, Joel Schwartz

158 SESSION

17:25-19:00
(EN): LIQUID BIOFUELS II
Moderator: Axel Munack
Location: MULTIPURPOSE IB

- 17:25 Introduction
- 17:30 C-1510 RENEWABLE OIL FROM SOLID JOJOBA BIOMASS WASTE
Mohamed Y. E. Selim
Mohamed Y. E. Selim, Yousef Haik, Salah A. B. Al-Omari, Habib Abdelrahman
- 17:45 C-1917 THE EFFECTS OF DIFFERENT SOWING TIMES ON SOME AGRICULTURAL PROPERTIES OF SUNFLOWER VARIETIES (C. TINCTORIUS L.) AND BIODIESEL QUALITY
Fikret Akinerdem
Ebru Günes, Fikret Akinerdem

- 18:00 C-0974 DEGRADATION KINETICS OF FIBRE COMPONENTS OF GRASS SILAGE IN THE FERMENTATION PROCESS AND EFFECTS OF ENZYME APPLICATION
Claudia Demmig
Claudia Demmig; Dirk Banemann; Michael Nelles

- 18:15 C-0531 BLENDS FROM BIODIESEL, DIESEL FUEL AND ALCOHOLS TO PREVENT CHEMICAL INTERACTIONS BETWEEN FUEL COMPONENTS
Axel Munack
Jürgen Krahl; Lasse Schmidt; Olaf Schröder; Kevin Schaper; Christoph Pabst; Axel Munack

159 SESSION

17:25-19:00
(IT): AUTOMATIC GUIDANCE II
Moderator: Thomas Toftegaard
Location: MULTIPURPOSE IC

- 17:25 Introduction
- 17:30 C-0196 LASER-BASED GUIDING SYSTEM FOR AN AUTONOMOUS MOBILE ROBOT WORKING IN GREENHOUSES
Julian Garcia Donaire
Julian Garcia Donaire, Ramón González Sánchez, Francisco Rodríguez Díaz, Andrzej Pawłowski
- 17:45 C-1090 A HUMAN-ROBOT INTERFACE FOR A VINEYARD SPRAYER
Ron Berenstein
Ron Berenstein, Yael Edan
- 18:00 C-1103 MULTI-SENSOR SIMULATION METHOD FOR OUTDOOR PLANT PHENOTYPING BASED ON AUTONOMOUS FIELD ROBOTS
Vadim Tsukor
Vadim Tsukor, Arno Ruckelshausen, Ralph Klose
- 18:15 C-1599 FIRST OPERATING EXPERIENCES WITH A PROTOTYPE FOR AUTOMATED ATTACHMENT OF THE SUPPORTING WIRES THAT THE HOP VINES GROW ON IN HIGH-TRELLIS HOP GARDENS
Zoltan Gobor
Zoltan Gobor, Georg Fröhlich, Harald Soller, Johann Portner

160 SESSION

17:25-19:00
(PF) NON DESTRUCTIVE TECHNIQUES III
Moderator: Nuria Aleixos
Location: ROOM 1

- 17:25 Introduction

17:30	C-0939	PREDICTION OF POULTRY EGG FRESHNESS USING ULTRASOUND TECHNIQUE Mohammad Aboonajmi Mohammad Aboonajmi, S.Kamaledin Setaredan, Takahishi Nishizu, Naoshi Kondo
17:45	C-0131	CHANGES OF ULTRASOUND CHARACTERISTICS OF MANGO JUICE DURING FRUIT RIPENING Marc Valente Marc Valente, Didier Laux, Alexia Prades
18:00	C-1020	BIOLOGICAL ACTIVITY OF THE EGYPTIAN MORINGA PEREGRINA SEED OIL Hanaa Abd El Baky Hanaa H Abd El Baky Hanaa Abd El Baky, Gamal El Baroty, Prof. Dr. Gamal S El Baroty El Baroty
18:15	C-1575	ONLINE-SORTING OF WHITE ASPARAGUS USING ACOUSTIC RESONANCE ANALYSIS Martin Geyer Julia Foerster, Ingo Truppel, Martin Geyer

161 SESSION

17:25-19:00
(PF) FOOD TECHNOLOGY IV
Moderator: Alejandra Salvador
Location: ROOM 4

17:25		Introduction
17:30	C-1212	THE WETTABILITY AND SURFACE FREE ENERGY OF THE WHITE SORGHUM STARCHES GELS ISOLATED BY ALKALINE AND ENZYMIC METHODS. Paula Correia Reis Paula Correia, Susete Gonçalves
17:45	C-1963	EFFECT OF SEED PRIMING PROLINE CONTENT OF DIFFERENT WINTER BREAD WHEAT (TRITICUM AESTIVUM) CULTIVARS Elif Ozdemir Elif Ozdemir, Bayram Sade, Süleyman Soylu, Mehmet Hamurcu, Emine Atalay
18:00	C-0454	EVALUATION OF THE EFFECT OF YEAST-SALT METHOD ON DOUGH YIELD, BREAD YIELD AND ORGANOLEPTIC PROPERTIES IRANIAN LAVASH BREAD Hossein Ahmadichenarbon Sara Movahed, Ghasem Rooshenas, Hossein Ahmadichenarbon

162 SESSION

17:25-19:00
(SPC02): MACHINE DESIGN AND PERFORMANCE III
Moderator: Meir Teitel
Location: ROOM 2

17:25		Commission Horticultural Engineering (CMEN) and CFD Working Group meeting
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163 SESSION

17:25-19:00
(SPC07): SILO STRUCTURES
Moderator: Jorgen Nielsen
Location: ROOM 3

17:25		Introduction
17:30	C-2002	SAFE STORAGE TIME OF CEREAL GRAIN SUMMARIZED IN A MATHEMATICAL MODEL Nils Jonsson Erik Nils Jonsson Erik, Pernilla Johnsson, Aldo Ritzzo, Monica Olsen, Leif Gustafsson
17:45	C-1578	THE HOUSEHOLD METAL SILO: A HELPFUL TECHNOLOGY FOR FOOD SECURITY Danilo Mejía Lorío Danilo Mejía Lorío

164 SESSION

17:25-19:00
(SPC06): WIRELESS SENSORS IN AGRICULTURE
Moderator: Luis Ruiz
Location: ROOM 5

17:25		Introduction
17:30	C1276	SIMULTANEOUS IDENTIFICATION OF FATTENING PIGS USING UHF RFID TECHNOLOGY Eva Gallmann Tobias Stekeler; Eva Gallmann; Daniel Herd; Thomas Jungbluth
17:45	C-0372	WIRELESS SENSOR NETWORKS LOCALIZATION IN HETEROGENEOUS TRANSMISSION MEDIUM Esmaeil S. Nadimi Esmaeil S. Nadimi, Jakob Juul Larsen, Ole Green, Victoria Blanes-Vidal, Pilar Barreiro Elorza, Thomas Skjodeberg Toftegaard
18:00		Round table II: Victoria Blanes Vidal, Luis Ruiz, Thomas Toftegaard

165 SESSION

17:25-19:00
(RD): SUSTAINABILITY 2
Moderator: Manuel Moya
Location: ROOM 6+7

17:25		Introduction
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- 17:30 C-1848 THE LIFE QUALITY AND THE PRODUCTION SYSTEMS: A RESEARCH IN RURAL SETTLEMENTS OF THE SAO PAULO STATE - BRAZIL
Taísa Marotta Brosler
Taísa Marotta Brosler, Sonia Maria Pessoa Pereira Bergamasco, Erika de Souza Oliveira, Julieta Teresa Aier de Oliveira, Fernando Rabello Paes de Andrade
- 17:45 C-2212 THE EFFECT OF SHEEP MANAGEMENT ON NITROUS OXIDE EMISSIONS AND NATURAL STEPPE IN ARID AND SEMI ARID ZONES
Omar Hijazi
Omar Hijazi, Werner Berg, Samouil Mousa, Reiner Brunsch
- 18:00 C-0562 THE ROLE OF INDIGENOUS KNOWLEDGE AND BIODIVERSITY IN RURAL DEVELOPMENT IN IRAN.
Masoud nezamoleslmi
Masoud Nezamoleslami, Mohammad Hasan Ebrahimi, Babak Pourmehdi zanbouri, Alireza Golnaraghi, Seyed Alireza Ghadimi, Mohammad Reza Behzadi, Mohammad Mehdi Amiri khorie,
- 18:15 C-0606 PARTICIPATION OF LOCAL ADMINISTRATIVE ORGANIZATION IN COMMUNITY CONFLICT RESOLUTION: A CASE STUDY OF PONGNOI VILLAGE, SUTHEP SUB-DISTRICT, MUANG DISTRICT, CHIANG MAI, THAILAND
jukkaphong poung-ngamchuen
Jukkaphong Poung-ngamchuen, Ratchanon somboonchai, Kamonwan Srijareon-jit, Suthima Kanonthong
- 18:30 C-1163 DIAGNOSTIC AND SUSTAINABLE MANAGEMENT PROPOSALS FOR THE FAMILY SELF-SUFFICIENCY IN THE SEMIARID REGION OF EL PARQUE CHACOÑO (ARGENTINE)
Manuel Moya Ignacio
Manuel Moya Ignacio, Alicia Calvo, Nórfol Ríos, Elena García

TUESDAY JULY 10

8:00-9:00 John F. REID. Keynote Speaker General Session
AUDITORIO1

201 SESSION

08:55 -10:30
(PM): CONSERVATION TILLAGE II
Moderator: Ted Kornecki
Location: AUDITORIO 1

- 08:55 Introduction
- 09:00 C-0996 ESTABLISHMENT OF A LONG TERM EXPERIMENT INTO TILLAGE AND TRAFFIC MANAGEMENT. PART ONE: EXPERIMENTAL DESIGN AND FIELD EQUIPMENT
Emily Smith
Emily Smith, Koloman Kristof, Paula A. Misiewicz, Keith Chaney, David W. White, Richard John Godwin
- 09:15 C-1024 ESTABLISHMENT OF A LONG TERM EXPERIMENT INTO TILLAGE AND TRAFFIC MANAGEMENT. PART TWO: EVALUATION OF SPATIAL HETEROGENEITY FOR THE DESIGN AND LAYOUT OF EXPERIMENTAL SITES
Koloman Kristof
Koloman Kristof, Emily Smith, Paula A. Misiewicz, Milan Kroulik, David White, Richard John Godwin
- 09:30 C-1990 STRIP TILLAGE FOR CORN AND SUGAR BEET - RESULTS OF A THREE YEAR INVESTIGATION ON THREE LOCATIONS
Markus Demmel Richard
Markus Demmel, Robert Brandhuber, Hans Kirchmeier
- 09:45 C-1403 MODEL FOR PREDICTION OF THE BUILD-UP HEAP EFFECT DURING BULLDOZING OPERATION ? EXPERIMENTAL VERIFICATION
Itzhak Shmulevich
Dror Rubinstein, Itzhak Shmulevich, Yaron Franco, Yuval Hikind

10:00 C-1482 REMOTE MONITORING OF OPERATIONS IN CONSERVATION PLUS PRECISION AGRICULTURE, RESPECT CONVENTIONAL TILLAGE AS A METHOD TO STUDY THE REDUCTION OF GREENHOUSE GASSES EMISSION

Francisco Márquez García

Jesus Antonio Gil Ribes, Juan Agüera-Vega, Francisco Márquez García, Emilio González-Sánchez, Gregorio Lorenzo Blanco Roldán

10:15 C-2032 TESTS TO DETERMINE SOME PARAMETERS THAT CHARACTERIZE TILLAGE FARMING OPERATIONS

Mariano Suarez de Cepeda Martinez

Mariano Suarez de Cepeda Martinez, Raimundo Romero

**08:55 -10:30
(SW-SPC01): IRRIGATION MANAGEMENT**

Moderator: Carmen Rocamora

Location: AUDITORIO 3A

202 SESSION

08:55 Introduction

09:00 C-1989 IRRIGATION PERFORMANCE IN A WATER USE ASSOCIATION IN VALENCIA, SPAIN. ENGINEERING AND PHYSIOLOGICAL INDICATORS.

Diego Intrigliolo

Ester López, Miguel Ángel Jiménez-Bello, Juan Manzano, Virginia Palau, Álvaro Royuela, Diego S. Intrigliolo

09:15 C-1727 WEB-BASED DECISION SUPPORT SYSTEM IRRIGATION DESIGN: MODELS INTEGRATION FOR SURFACE AND SET SPRINKLER SYSTEMS

José Manuel Monteiro Gonçalves

José Manuel Gonçalves, André Muga, Gonçalo C. Rodrigues, Paula Paredes, Hanaa Darouich, Luis Santos Pereira

09:30 C-1595 AUTOMATIC PROGRAMMERS FOR SOLID SET SPRINKLER IRRIGATION SYSTEMS

Nery Zapata

Nery Zapata, Raquel Salvador, José cavero, Sergio Lecina, Enrique Playán

09:45 C-1412 PERFORMANCE ASSESSMENT OF A MONITORING SYSTEM FOR IRRIGATION SCHEDULING IN A COMMERCIAL VINEYARD

Herminia Puerto Molina

Herminia Puerto Molina, Antonio Ruiz Canales, José Miguel Molina Martínez

10:00 C-2007 ADAPTATION TO WATER SCARCITY? THE CASE OF THE REAL ACEQUIA DE MONCADA

Mar Violeta Ortega-Reig

Mar Violeta Otega-Reig, Vicente Sales-Martinez, Antonio Calatayud-Clerigues, Francisco Sanchez-Sada, Marta García, Guillermo Palau-Salvador

10:15 C-0364 FILTERED VOLUME AND OUTLET PARAMETERS PREDICTION WITH NEURAL NETWORKS IN A MICRO IRRIGATION SAND FILTER USING EFFLUENTS

Gerard Arbat Pujolras

Jaume Puig-Bargués, Miquel Duran-Ros, Gerard Arbat, Javier Barragán, Francisco Ramírez de Cartagena

203 SESSION

08:55 -10:30

(SPC-05): OVERVIEW OF MEASUREMENT AND VERIFICATION PROTOCOLS IN LIVESTOCK ENVIRONMENTS

Moderator: Richard Gates and María Cambra-López

Location: AUDITORIO 2

08:55

ILES KEYNOTE: Peter ENGEL, Nico W.M. Ogink, Hongwei XIN

204 SESSION

08:55 -10:30

(EN): ENERGY EFFICIENCY IN AGRICULTURE V

Moderator: Andreas Meyer-Aurich

Location: MULTIPURPOSE IA

08:55 Introduction

09:00 C-0961 EFFICIENT USE OF AGRICULTURAL LAND IN PRODUCTION OF ENERGY: NATURAL INSULATION VERSUS BIO-ENERGY

Daniel-Calin Ola

Daniel-Calin Ola, Ralf Pecenka, Hans-Jörg Gusovius, Jörn Budde, Christian Fürll

09:15 C-1242 ACOUSTICAL PROPERTIES OF DENSIFIED COMPOST DERIVED FROM SWINE SOLID FRACTION

Christian Preti

Christian Preti, Niccolò Pampuro, Alessio Facello, Eugenio Cavallo

09:30 C-1277 ENERGY CONSUMPTION IN BROILER PRODUCTION

Mari Rajaniemi

Mari Rajaniemi, Jukka Ahokas

09:45 C-1764 DEVELOPMENTS TOWARDS ENERGY EFFICIENCY IN AGRICULTURAL DRYING

Thomas Ziegler

Thomas Ziegler, Jochen Mellmann, Hasan Jubaer, Fabian Weigler

10:00 C-1977 ENERGY CONSUMPTION MEASUREMENTS IN GRAIN DRYING

Tapani Jokiniemi

Tapani Jokiniemi, Jukka Ahokas

205 SESSION

10 8:55-10:30
(EN): SOLAR ENERGY
Moderator: Veerle Van Linden
Location: MULTIPURPOSE IB

- 08:55 Introduction
- 09:00 C-1644 FEASIBILITY ASSESSMENT OF PHOTO-VOLTAIC PUMPING FOR IRRIGATION IN WEST BENGAL, INDIA
Shamaila Zia
Shamaila Zia, Thorben Andersen, Sudipta Lai, Klaus Spohrer, Wolfram Spreer, Rabindra Kumar Panda, Joachim Müller,
- 09:15 C-1920 SIMULATION OF PHOTOVOLTAIC GENERATION METHODOLOGY FOR THE PLANNING AND OPERATION OF ELECTRICAL ENERGY SYSTEMS
Olga Moraes Toledo
Olga Moraes Toledo, Delly Oliveira Filho, Antonia Sonia Alves Cardoso Diniz, Maria Helena Murta Vale, Jose Helvécio Martins
- 09:30 C-1926 POLICIES FOR PHOTOVOLTAIC SOLAR ENERGY USE IN THE WORLD AND PROSPECTS FOR BRAZIL
Delly Oliveira Filho
Gustavo Azevedo Xavier, Delly Oliveira Filho, Joyce Correna Carlo

206 SESSION

08:55 -10:30
(IT): CONTROL METHODS
Moderator: Claus Sorensen
Location: MULTIPURPOSE 1C

- 08:55 Introduction
- 09:00 C-1252 KNOWLEDGE BASED METHODS FOR SPATIAL DATA INTEGRATION IN AGRICULTURE: CASE OF AUTOMATED COMPLIANCE CONTROL
Raimo Nikkilä
Raimo Nikkilä, Jens Wiebensohn, Ilkka Seilonen, Kari Koskinen
- 09:15 C-1392 HYBRID MODELING AND CONTROL OF GREENHOUSE TEMPERATURE THROUGH AERIAL-PIPES AND AIR-FAN HEATER SYSTEMS
Jorge Antonio Sánchez Molina
Ana Paola Montoya, Francisco Rodríguez, Jose Luis Guzman, Jorge Antonio Sánchez

- 09:30 C-1802 DEVELOPMENT OF AN ATTACHABLE YIELD MONITORING SYSTEM AND AN EVALUATION OF A REDUCED NITROGEN INPUT
Tadashi Chosa
Tadashi Chosa, Eiji Morimoto, Shogo Takemoto
- 09:45 C-2182 SYSTEM OF AUTOMATIC CONTROL OF TEMPERATURE AND AIRFLOW FOR DRYING OF AGRICULTURAL PRODUCTS WITH RECYCLING OF THE DRYING AIR
Cristiano Lúcio Cardoso Rodrigues
Cristiano Lúcio Cardoso Rodrigues, José Helvécio Martins, Paulo Marcos de Barros Monteiro, Evandro de Castro Melo, José Eduardo Carvalho Monte

207 SESSION

08:55 -10:30
(IT): FERTILIZER AND PESTICIDE APPLICATIONS
Moderator: Rafael Argiles
Location:AUDITORIO 3B

- 08:55 Introduction
- 09:00 C-1391 FIRST RESULTS USING TERRESTRIAL LIDAR SENSOR FOR DRIFT DETECTION IN VINEYARD SPRAYING
Jordi Llorens Calveras
Jordi Llorens, Emilio Gil, Sònia Duarte, Jordi Llop
- 09:15 C-1387 ANALYSIS OF ERROR IN THE APPLICATION OF VARIABLE RATE FERTILIZER COMPARING THREE SPEEDS OF OPERATION
Ranié Vieira Rodrigues
Casimiro Dias Gadanha Junior, Mateus Marrafon Nicolosi, Edmar Casarin Zambianco, Marco Aurélio Polim Milan, Ranié Rodrigues Vieira
- 09:30 C-1681 DOSAFRUT, PESTICIDE DOSE ADJUSTMENT SYSTEM IN INTENSIVE FRUIT ORCHARDS
Santiago Planas de Martí
Santiago Planas de Martí, Ferran Camp, Francesc Solanelles, Alexandre Escolà, Ricardo Sanz, Joan Ramón Rosell-polo
- 09:45 C-0904 AN ADD-ON MINI-YIELD SENSOR ON GRAIN COMBINES ACCURATELY AND STABLY ESTIMATES TOTAL GRAIN WEIGHT UNDER VARYING THROUGHPUT OF THE CROP
Koichi Shoji
Koichi Shoji, Munenori Miyamoto
- 10:00 C-0242 VARIABLE RATE OF AERIAL RELEASE OF STERILE INSECTS IN AREA-WIDE PEST MANAGEMENT PROGRAMS
Rafael Argilés
Marta Briasco; Daniel Larrosa; Gustavo Salvador; Javier Montesa; Rafael Argilés

208 SESSION

08:55 -10:30
**(PF): NON-DESTRUCTIVE
TECHNIQUES IV**
 Moderator: Park Bosson
 Location: ROOM I

08:55	Introduction
09:00	C-2034 DETECTION OF AFLATOXINS B1, B2, G1, G2 IN NUTMEG EXTRACT USING FLUORESCENCE FINGERPRINT Junichi Sugiyama Junichi Sugiyama, Kaori Fujita, Mizuki Tsuta, Mario Shibata, Mito Kokawa, Hiroyuki Onda, Takehito Sagawa,
09:15	C-2058 DEVELOPMENT OF RAPID ESTIMATION METHOD OF AEROBIC BACTERIA POPULATION ON BEEF SURFACE BY FLUORESCENCE FINGERPRINTS Masatoshi Yoshimura Masatoshi Yoshimura, Mizuki Tsuta, Mario Shibata, Kaori Fujita, Mito Kokawa, Junichi Sugiyama
09:30	C-2244 A FEASIBILITY STUDY OF FAST AND NON-DESTRUCTIVE ESTIMATION OF DIASTASE ACTIVITY OF HONEY Xiaoli Li Chu Zhang, Xiaoli Li, Yidan Bao, Yong He
09:45	C-0837 APPLICATION OF BIOSPECKLE METHOD FOR MONITORING THE BULLS EYE ROT DEVELOPMENT AND QUALITY CHANGES OF APPLES AFTER VARIOUS STORAGE METHODS Anna Adamiak Anna Adamiak, Artur Zdunek, Andrzej Kurenda, Krzysztof Rutkowski
10:00	C-1415 QUALITY CONTROL IN GRAIN STORES BY USE OF IN BEDDED WIRELESS SENSORS Erik Fløgaard Kristensen Erik Fløgaard Kristensen, Jakob Juul Larsen, Johannes Ravn Jorgensen, Margrethe Balling Hostgaard, Ole Green

209 SESSION

08:55 -10:30
(SPCO2): INDOOR AEROLICS I
 Moderator: Athanasios Sapounas
 Location: ROOM 2

08:55	Introduction
09:00	ESTABLISHING QUALITY AND TRUST IN CFD THROUGH ERCOFTAC Technical Speaker: Philippe Geuziane

09:30	C-0809 CFD MODELLING OF AIR COOLING OF MULTIPLE BEEF CARCASSES USING 3D GEOMETRICAL MODELS Kumsa Delessa Kuffi Kumsa Delessa Kuffi, Thijs Defraeye, Erwin Koninckx, Stefaan Lescouhier, Bart M. Nicolai, Stefaan De Smet, Annemie Geeraerd, Pieter Verboven
09:45	C-0860 CFD BASED ANALYSIS OF THE 3D SPATIAL AND TEMPORAL DISTRIBUTION OF 1-METHYLCYCLOPROPENE IN APPLE FRUIT STORAGE Alemayehu Ambaw Tsige Alemayehu Ambaw Tsige, Pieter Verboven, Mulugeta Admasu Delele, Thijs Defraeye, Engelbert Tijskens, Ann Schenk, Bart Nicolai
10:00	C-1170 CLIMATE DISTRIBUTION IN A FAN AND PAD EVAPORATIVE COOLED GREENHOUSE: A CFD APPROACH Thomas Bartzanas Thomas Bartzanas, Dimitrios Fidaros, Caterina Baxevanou, Constantinos Kittas
10:15	C-0711 3-DIMENSIONAL THERMAL ANALYSIS OF A SCREENHOUSE WITH PLANE AND MULTISPAN ROOF BY USING COMPUTATIONAL FLUID DYNAMICS (CFD) Jorge Flores Jorge Flores, Enrique Mejia, Abraham Rojano, Ireneo L. Lopez, Juan Ignacio Montero, Armando Hernandez Mendoza, Oscar Alberto Kemfener, Miguel Mendoza Campos

210 SESSION

08:55 -10:30
(SE): LOADS AND STRUCTURES
 Moderator: Quiang Zhang
 Location: ROOM 3

08:55	Introduction
09:00	C-0414 COLLAPSES AND DAMAGES ON SWEDISH FARM BUILDINGS DUE TO SNOW LOADS Christer Nilsson Christer Nilsson, Olof Friberg
09:15	C-1445 OPEN SOURCE SPREADSHEET FOR OPTIMIZING PORTAL FRAMED SINGLE-STOREY STEEL BUILDINGS Jorge Lampurlanes Castel Carles Grau Masias, Lluís Puigdomènech Franquesa, Jorge Lampurlanes Castel
09:30	C-1153 AN ESTIMATION OF VERTICAL STRESSES AND SETTLEMENTS IN RESERVOIRS UNDER A LINEAR ELASTIC BEHAVIOR Miguel Redon Santafe Miguel Redon Santafe, Jose Javier Ferran Gozalvez, Carlos Manuel Ferrer Gibert, Francisco Javier Sanchez Romero, Juan Bautista Torregrosa Soler

09:45	C-0605	DEVELOPMENT OF AN EQUIPMENT TO DETERMINE PHOTOSYNTHETIC PHOTON FLUX DISTRIBUTION AND ILLUMINATION EFFICIENCY OF LED LAMPS FOR PLANT GROWTH Yong Hyeon Kim Jong Ho Park, Jae Su Lee, Yong Hyeon Kim
10:00	C-0825	INVESTIGATION OF OUTDOOR AIRFLOW DISTRIBUTION UNDER DIFFERENT BUILDING DISTANCES Xiong Shen Georgios Ntinas, Xiong Shen, Guoqiang Zhang, Vassilios Fragos
10:15	C-1275	ANALYSIS OF A STRUT & TIE MODEL FOR RIGID SHALLOW FOUNDATIONS AND ECCENTRICAL LOADS Carlos Manuel Ferrer Gisbert Jose Javier Ferran Gozalvez, Carlos Manuel Ferrer Gisbert, Miguel Redon Santafe, Francisco Javier Sanchez Romeo, Juan Bautista Torregrosa Soler

211 SESSION

08:55 -10:30 (SPC04): AUTOMATED NAVIGATION OF FARM EQUIPMENT

Moderator: Francisco Rovira
Location: ROOM 4

08:55	Introduction
09:00	THE ATOE CONFERENCES: PAST, PRESENT, AND FUTURE Qin Zhang
09:15	C-0315 EMBEDDED CONTROL SYSTEM FOR LARGE SCALE UNMANNED TRACTOR Timo Oksanen Timo Oksanen
09:30	C-1498 PATH FOLLOWING ALGORITHM FOR FOUR WHEEL INDEPENDENT STEERED TRACTOR Timo Oksanen Timo Oksanen
09:45	C-0018 DEVELOPMENT OF A COMBINE HARVESTER MODEL FOR NAVIGATION SIMULATION Ze Zhang Ze Zhang; Noboru Noguchi; Kazunobu Ishii
10:00	C-2317 A PROJECT ON DEVELOPMENT OF AGRICULTURAL TRACTOR AUTOMATIC STEERING SYSTEM ((SYSTEM ARCHITECTURE AND LABORATORY TESTS)) Bahattin Akdemir Bahattin Akdemir, Ahmet Urusan, Erdogan Kesici

212 SESSION

08:55 -10:30 (SPC06): APPLICATIONS OF WSN IN AGRICULTURE, PRIVATE SECTOR I

Moderator: Enrique Moltó
Location: ROOM 5

08:55	Introduction
09:00	Company (WebsTech)
09:30	C-0876 THE EFFECT ON WIRELESS SENSOR NETWORK COMMUNICATION WHEN EMBEDDED IN BIOMASS Jakob Larsen Jakob Juul Larsen, Ole Green, Esmaeil S. Nadimi, Thomas Skjødeberg Toftegaard
09:45	Hands on

213 SESSION

08:55 -10:30 (RD):LANDSCAPE 1

Moderator: Brian G. Sims

Location: ROOM 6+7

08:55	Introduction
09:00	C-0496 3D MODELING OF LANDSCAPE ENVIRONMENTS FOR THE INTEGRATION OF BUILDINGS INTO THE LANDSCAPE Julio Hernández Blanco Jacinto Garrido Velarde, Julio Hernández, Lorenzo García, María Jesús Montero Parejo
09:15	C-0871 THE ROLE OF VEGETATION AS A VISUAL TOOL FOR INTEGRATION OF RURAL BUILDINGS. A CASE OF STUDY IN THE BIOSPHERE RESERVE "SIERRA DE FRANCIA" Julio Hernández Blanco Julio Hernández Blanco, Elena Carabias, Jacinto Garrido
09:30	C-0829 A GIS FOR RURAL LANDSCAPE SAMPLING Patrizia Tassinari Daniele Torreggiani, Stefano Benni, Maroussa Zagoraiou, Elisabetta Carfagna, Patrizia Tassinari

214 SESSION

08:55 -10:30 (SPC03): COLOR ANALYSIS

Moderator: Wonsuk Daniel Lee

Location: ROOM 8+9

08:55	Introduction
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09:00	C-1957	QUANTITATIVE COLOR APPEARANCE EVALUATION BASED ON SPECTRAL INFORMATION OF NATURAL LIGHTING Atsushi Hashimoto Atsushi Hashimoto, Kentarou Furusawa, Ken-ichiro Suehara, Takaharu Kameoka	11:30	C-0499	SIMULATING COV FROM NOZZLES SPRAY DISTRIBUTION: A NECESSITY TO INVESTIGATE SPRAY DISTRIBUTION QUALITY WITH DRIFT REDUCING SURFACTANTS. Jean Paul Douzals Jean Paul Douzals, Antoine Porte, Pierre Fernandez
09:15	C-2120	A NOVEL OPTICAL APPROACH TO MONITOR COLOR CHANGES OF MANGO PEEL FOR MACHINE-VISION APPLICATIONS Marcus Nagle Marcus Nagle, Giuseppe Romano, Kiatkamjorn Intani, Wolfram Spreer, Busarakorn Mahayothee, Vicha Sardsud, Hans-joachim Müller	11:45	C-1364	DETERMINATION OF DRIFT POTENTIAL VALUE (DPV) FOR DIFFERENT FLAT FAN NOZZLES USING A HORIZONTAL DRIFT TEST BENCH Emilio Gil Emilio Gil, Montserrat Gallart, Jordi Llorens, Jordi Llop
09:30	C-2197	ANALYSIS OF HUE SPECTRA DURING STORAGE OF PEPPER (CAPSICUM ANNUUM) Laszlo Baranyai Laszlo Baranyai, Denes Lajos Denes, Jozsef Felfoldi	12:00	C-1563	DRIFTSIM, A COMPUTER PROGRAM FOR ESTIMATING DRIFT DISTANCES OF DROPLETS Heping Zhu Heping Zhu, Erdal Ozkan
09:45	C-2231	A CHROMATIC IMAGE ANALYSIS FOR EVALUATING APPEARANCE OF AGRICULTURAL PRODUCTS USING COLOR DISTRIBUTION ENTROPY Takaharu Kameoka Kyosuke Yamamoto, Takashi Togami, Atsushi Hashimoto, Yousuke Yoshioka, Seishi Ninomiya, Takaharu Kameoka	12:15		PM08: Sustainable crop protection
10:00	C-2266	ORANGE GRADING BASED ON VISUAL TEXTURE FEATURES USING MACHINE VISION Abdolabbas Jafari Abdolabbas Jafari, Mohammad Reza Zarezadeh, Atefeh Fazayeli			

10:55-13:00
(PM): DRIFT AND PLANT PROTECTION

Moderator: Paolo Balsari
Location: AUDITORIO 1

10:55 Introduction

11:00	C-2311	NOZZLE CLASSIFICATION SYSTEM IN JAPAN BASED ON THE RELATIVE SPRAY DRIFT POTENTIAL Geng Bai Geng Bai, Kazuhiro Nakano, Tomomichi Mizukami, Sumihiko Miyahara, Shintaroh Ohashi, Ken-ichi Takizawa, Haijun Yan,
11:15	C-1106	SPRAY DRIFT FROM AERIAL APPLICATION ON SUGARCANE Ulisses Rocha Antuniassi Ulisses Rocha Antuniassi, Edivaldo Domingues Velini, Caio Antonio Carbonari, Wellington Pereira Alencar Carvalho, Rone Batista Oliveira, Maria Aparecida Peres Oliveira

216 SESSION

10:55-13:00
(SW-SPC01): IRRIGATION ENGINEERING
Moderator: Daniele De Wrachien
Location: AUDITORIO 3A

10:55		Introduction
11:00	C-0369	CLASSICAL AND QUANTUM MECHANICAL ANALYSIS OF WATER DROPLET BALLISTICS IN SPRINKLER IRRIGATION SYSTEMS Daniele De Wrachien Daniele De Wrachien, Giulio Lorenzini, Stefano Mambretti
11:15	C-1073	DESIGN OF MICROIRRIGATION SUBUNITS WITH MINIMUM COST AND PROPER OPERATION. APPLICATION AT PEPPER AND VINEYARD IN SPAIN José Mª Tarjuelo Martín-Benito José María Tarjuelo, Francisco Carrión, Amaro de Castillo, Miguel Angel Moreno Hidalgo
11:30	C-1144	WATER DISTRIBUTION UNIFORMITY IMPROVEMENT OF MICROTUBE-TYPE AND BUTTON-TYPE DRIP IRRIGATION SYSTEM USING ADJUSTABLE PRESSURE-LOSS LATERAL TAKEOFF VALVES Victor Ella Victor Ella, Jack Keller, Manuel Reyes, Bob Yoder
11:45	C-0891	POWER SUPPLY QUALITY AND HARMONIC GENERATION IN PUMPING STATIONS FOR IRRIGATION Juan Ignacio Corcoles Tendero Juan Ignacio Corcoles Tendero, Jose Fernando Ortega Alvarez, Pedro Carrion, Arturo De Juan Valero, Jose Maria Tarjuelo Martin - Benito, Miguel Angel Moreno

12:00	C-1824	ASSESSMENT OF HYDRAULIC BEHAVIOR OF REGULATED DRIP EMITTERS IN LABORATORY Alvaro Royuela Alvaro Royuela, Jose V. Turegano
12:15	C-1091	ENERGY MANAGEMENT SYSTEM FOR WATER USERS? ASSOCIATIONS Carmen Rocamora Osorio Carmen Rocamora Osorio, Ricardo Abadia Sánchez, Jorge Vera Morales
12:30	C-0989	ASSESSMENT OF LOCAL HEAD LOSSES FOR DIFFERENT LATERAL INSERTIONS IN MANIFOLDS Alvaro Royuela Alvaro Royuela, Pau Martí, Manuel Zarzo, Jose V. Turegano

10:55-13:00
(SPC05): MULTI-PERSPECTIVE & HOLISTIC ASSESSMENT OF SYSTEMS
Moderator: André Aarnink
Location: AUDITORIO 2

10:55		Introduction
11:00	C-0198	VENTILATION RATE, BALANCE TEMPERATURE AND SUPPLEMENTAL HEAT NEED IN ALTERNATIVE VS. CONVENTIONAL LAYING-HEN HOUSING SYSTEMS Yang Zhao Yang Zhao, Hongwei Xin, Tim Shepherd, Morgan Hayes, John Stinn
11:15	C-1268	ELECTRICITY AND FUEL USAGE OF AVIARY LAYING-HEN HOUSES IN THE MIDWESTERN UNITED STATES Tim Shepherd Morgan Hayes, Hongwei Xin, Hong Li, Tim Shepherd, John Stinn
11:30	C-1457	AMMONIA EMISSION AND PRODUCTIVITY OF LAYING HENS FED DIETS CONTAINING DISTILLER DRIED GRAINS Eileen Wheeler Eileen.F. Wheeler, Paul. H. Patterson, Heather Burley
11:45	C-0528	TOP LAYER HUMIDIFICATION OF BEDDING MATERIAL OF LAYING HEN HOUSES TO MITIGATE DUST EMISSIONS: EFFECTS OF WATER SPRAYING LEVELS ON DUST, AMMONIA AND ODOUR EMISSIONS Nico Ogink Nico W. M. Ogink, Jan van Harn, Rick van Emous, Hilko Ellen
12:00	C-0083	IMPACT OF THE REDUCTION OF STRAW ON AMMONIA, GHG AND ODORS EMITTED BY FATTENING PIGS HOUSED IN A DEEP-LITTER SYSTEM Nadine Guingand Nadine Guingand, Alexandre Rugani

12:15	C-1647	NITROGEN FLOW CHARACTERISATION OF LAYING HEN PRODUCTION SYSTEMS: A MASS BALANCE APPROACH Frederic Pelletier Frederic Pelletier, Stephane Godbout, Sébastien Fournel, Martin Belzile, Matthieu Girard
12:30	C-0921	ENVIRONMENTAL CONSEQUENCES OF SEGREGATING PIG URINE AND FAECES - A LIFE CYCLE PERSPECTIVE Jerke W De Vries J.W. De Vries, André J. A. Aarnink, P.w.g. Groot Koerkamp, I.J.M. De Boer
12:45	C-0945	METHODOLOGICAL ASPECTS OF ENVIRONMENTAL ASSESSMENT OF LIVESTOCK PRODUCTION BY LCA (LIFE CYCLE ASSESSMENT) Lorie Hamelin Lorie Hamelin, Henrik Wenzel

10:55-13:00
(EN): AGREE PROYECT MEETING
Location: MULTIPURPOSE IA

10:55-13:00
(EN): BIOMASS TREATMENT
Moderator: Algirdas Jasinskas
Location: MULTIPURPOSE IB

10:55		AGREE MEETING
10:55		Introduction
11:00	C-1333	DETERMINATION OF ENERGY PLANTS CHOPPING QUALITY WHILE BIOFUEL PREPARATION Algirdas Jasinskas Algirdas Jasinskas
11:15	C-1574	EFFECTS OF COMPRESSIVE FORCE, PARTICLE SIZE AND MOISTURE CONTENT ON MECHANICAL PROPERTIES OF WORMY COMPOST PELLETS Mohammad Hossein Kianmehr Mohammad Hossein Kianmehr, Hadi Rahmanzadeh Bahram, Seyed Reza Hassan-Beygi, Iman Valaei, Hossein Ali Alikhani
11:30	C-1814	PERFORMANCE EVALUATION OF A SMALL CHIPPER USING AN INNOVATIVE CUTTING SYSTEM Alessio Facello Alessio Facello, Eugenio Cavallo, Raffaele Spinelli

11:45	C-2294	BIOGAS PRODUCTION USING STRONG LIGNIFIED HAY - OPTIMIZATION OF THE TIME TEMPERATURE COMBINATION USING STEAM EXPLOSION FOR PRE-TREATMENT Franz Theuretzbacher Franz Theuretzbacher, Alexander Bauer, Thomas Amon, Barbara Amon	12:30	C-0838	PLANTS DISCRIMINATION IN MAIZE FIELDS APPLYING HUMAN PERCEPTION TO DIGITAL IMAGES Juan Romeo Granados juan romeo granados, Diego Oliva, Jose Miguel Guerrero, Martín Montalvo Martínez, María Guijarro, Gonzalo Pajares
12:00	C-2299	ENERGY USE AND CARBON DIOXIDE EMISSIONS ASSOCIATED WITH THE COMPRESSION OF OILSEED RAPE STRAW Leticia Chico Santamarta Leticia Chico Santamarta, Angel Ramirez, Richard John Godwin, Keith Chaney, David White, Andrea Humphries	12:45	C-0985	ASSESSMENT OF PESTICIDE APPLICATION METHOD EFFICIENCY USING HIGH-SPEED IMAGE ANALYSIS Mathieu Massinon Mathieu Massinon, Thierry Denis, Benjamin Perriot, Marie-France Destain, Frédéric Lebeau

220 SESSION

10:55-13:00
(IT): SENSORS I
Moderator: Mahdi Alavi
Location: MULTIPURPOSE IC

10:55		Introduction
11:00	C-1888	DETECTION OF RICE PLANT LODGING USING CAMERA AND LASER RANGE FINDER Ryohei Masuda Ryohei Masuda, Kazuo Nomura, Michihisa Iida, Masahiko Suguri
11:15	C-1817	EXPERIMENTAL METHOD TO ESTIMATE CROP DENSITY BY LASER BEAM Ali Farmanesh Ali Farmanesh, Mohsen Shamsi
11:30	C-0445	NON-DESTRUCTIVE MEASURING OF ROOT CROP PROPERTIES USING UWB-RADAR Christian Peveling-Oberhag Christian Peveling-Oberhag, Peter Schulze Lammers
11:45	C-0406	SEEDLING DISCRIMINATION USING SHAPE FEATURES DERIVED FROM A DISTANCE TRANSFORM Rasmus Nyholm Jørgensen Thomas Moesgaard Giselsson, Henrik Skov Midtiby, Rasmus Nyholm Jørgensen
12:00	C-0439	GREENHOUSE PLANT SEGMENTATION USING POINT DISTRIBUTION MODEL Medhat Moussa Asmaa Ali, Medhat Moussa
12:15	C-0485	INVESTIGATION OF CONTINUOUS IMAGING ANALYSIS OF GRAIN QUALITY ON A COMBINE HARVESTER Janine Berberich Janine Berberich, Hilke Risius, Markus Huth, Jürgen Hahn

221 SESSION

10:55-13:00
(IT): WEED CONTROL
Moderator: David C. Slaughter
Location: AUDITORIO 3B

10:55		Introduction
11:00	C-1178	MECHANICAL WEED MANAGEMENT BASED ON AN ACCURATE ODOMETRY TECHNIQUES David Slaughter Manuel Pérez Ruiz, David C. Slaughter, Fadi Fathallah, Chris Gliever, Brandon Miller
11:15	C-1016	MODICOVI - MONOCOT AND DICOT COVERAGE RATIO VISION BASED METHOD FOR REAL TIME ESTIMATION CANOPY COVERAGE RATIO BETWEEN CEREAL CROPS AND DICOTYLEDON WEEDS Morten Laursen Stigaard Morten Laursen Stigaard, Henrik Skov Midtiby, Norbert Krüger, Rasmus Nyholm Jørgensen
11:30	C-2125	WEED DETECTION AND DISCRIMINATION IN MAIZE FIELDS USING ULTRASONIC AND LIDAR SENSORS Alexandre Escolà Alexandre Escolà, Dionisio Andújar, José Dorado, César Fernández-Quintanilla, Joan R. Rosell-Polo
11:45	C-2019	A NON-SUPERVISED STRATEGY FOR IDENTIFYING WEEDS IN AGRICULTURAL AERIAL IMAGES Pedro Javier Herrera Caro P. Javier Herrera, Ana I. de Castro, Francisca López-Granados, Montserrat Jurado-Expósito, Ángela Ribeiro
12:00	C-0780	ESTIMATION OF WEED CONTROL THRESHOLD FOR INTELLIGENT SPRAYER BOOM Asif Ali Asif Ali, Christian Andreasen, Jens.C. Streibig, Svend Christensen

223 SESSION

10:55-13:00
**(SPC02): ENVIRONMENTAL
AEROLICS AND HYDRAU-
LICS**

Moderator: Murat Kacira
Location: ROOM 2

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| 10:55 | Introduction |
| 11:00 | C-0608 PREDICTION OF LIVESTOCK ODOUR DISPERSION OVER COMPLEX TERRAIN USING CFD TECHNOLOGY
Se-Woon Hong
Se-Woon Hong, In-Bok Lee, Il-Hwan Seo, Jessie P. Bitog, Kyeong-Seok Kwon |
| 11:15 | C-0614 INVESTIGATION OF WINDBREAK SYSTEMS TO CONTROL SOIL/DUST GENERATION AND DIFFUSION IN A RECLAIMED LAND: A NUMERICAL APPROACH
Jessie Pascual Bitog
Jessie Pascual Bitog Piog, In-Bok Lee, Hyun-Seob Hwang |
| 11:30 | C-0619 ATOMIZATION MODELING: AN EULERIAN APPROACH
Ariane Vallet
Ariane Vallet, Abdelhak Belhadjef |
| 11:45 | C-0935 ONGOING RESEARCH ON PESTICIDES AIR DISPERSION
Bernard Bonicelli
Bernard Bonicelli, Carole Sinfort, Bernadette Ruelle, Vincent De Rudnicki, Eric Cotteux |
| 12:00 | C-1260 CFD APPLICATION FOR ESTIMATION OF AIRBORNE SPREAD OF HPAI (HIGHLY PATHOGENIC AVIAN INFLUENZA)
Il-hwan Seo
Il-hwan Seo, In-bok Lee, Hyun-seob Hwang, Se-woon Hong, Jessie Pascual Bitog Piog, Kyeong-seok Kwon |
| 12:15 | C-1823 AIRFLOW AROUND ARTIFICIAL WIND-BREAKS WITH ELASTIC SUPPORT
Antonis Mistriotis
Anastasios Giannoulis, Antonis Mistriotis, Nikoleta Papardaki, Demetres Briassoulis |
| 12:30 | C-1618 NUMERICAL SIMULATION OF THE HYDRODYNAMICS AND TURBULENT MIXING PROCESS IN A WATER STORAGE TANK
Ignacio José Moncho Esteve
Ignacio José Moncho Esteve, Guillermo Palau-Salvador, Petra Amparo López-Jiménez, Markus Vaas, Werner Brevis |
| 12:45 | C-0363 HYDRODYNAMIC BEHAVIOUR OF THE UNDERDRAINS IN A MICROIRRIGATION SAND FILTER USING CFD SOFTWARE
Gerard Arbat Pujolàs
Gerard Arbat, Toni Pujol, Jaume Puig-Bargués, Miquel Duran-Ros, Javier Barragán, Lino Montoro, Francisco Ramírez de Cartagena, |

224 SESSION

10:55-13:00
(SE): MATERIALS

Moderator: Eutiquio Gallego

Location: ROOM 3

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| 10:55 | Introduction |
| 11:00 | C-0484 THERMAL CONDUCTIVITY OF ENVIRONMENTALLY FRIENDLY PARTICLEBOARDS FROM ARUNDO DONAX BONDED WITH DIFFERENT STARCHES
Teresa García Ortúño
Teresa García Ortúño, María Teresa Ferrández García, Javier Andreu Rodríguez, Clara Eugenia Ferrández García, Manuel Ferrández-Villena García |
| 11:15 | C-1177 PROPERTIES OF RECYCLED PLASTIC FILMS OBTAINED FROM PROTECTED CULTIVATION
Aleksandra Dimitrijevic
Carmela Sica, Pietro Picuno, Giacomo Scarascia Mugnozza, Aleksandra Dimitrijevic |
| 11:30 | C-0361 CEMENT MORTARS NANOMATERIALS FOR USE IN LIVESTOCK FACILITIES
Elvira Sanchez Espinosa
Jordi Massana Guitart, Rebeca Antón, Arancha Hueso Doblado, Elvira Sánchez Espinosa |
| 11:45 | C-1623 USE OF BAMBOO ORGANOSOLV PULP AS REINFORCEMENT CEMENTITIOUS MATRICES
Viviane da Costa Correia , Débora Oliveira, Alessandra Almeida, Holmer Savastano Junior |
| 12:00 | C-1320 INFLUENCE OF POLYVINYL ALCOHOL AND KERATIN ON MECHANICAL PROPERTIES OF THERMOPLASTIC STARCH (TPS)
Bozena Gladyszewska
Bozena Gladyszewska, Anna Ciupak, Dariusz Chocyk, Leszek Moscicki, Andrzej Rejak, Krzysztof Golacki |
| 12:15 | C-1156 MANUFACTURE AND PROPERTIES OF THREE-LAYERED LOW DENSITY PARTICLEBOARD FROM GIANT REED
Clara Eugenia Ferrández García
Clara Eugenia Ferrández García, Manuel Ferrández-Villena García, Juan Cuartero, Teresa García Ortúño, María Teresa Ferrández García, Javier Andreu Rodríguez |
| 12:30 | C-2167 SUGAR CANE STRAW ASHES AS ADDITION IN CEMENTITIOUS MATRICES
Michelle Rodrigues Santos
Michelle Rodrigues Santos, Antonio Ludovico Bernaldo, Holmer Savastano Junior, Sergio Francisco Dos Santos |

225 SESSION

10:55-13:00
(SPC04): PERCEPTION FOR INTELLIGENT VEHICLES AND FARM EQUIPMENT
 Moderator: Shufeng Han
 Location: ROOM 4

10:55	Introduction
11:00	C-0991 REAL TIME PERCEPTION AND CLASSIFICATION OF RELEVANT OBJECTS IN RURAL ENVIRONMENT TO REACH SAFE AUTONOMOUS PILOTING OF A COMMERCIAL TRACTOR Maria C. Garcia-Alegre Maria C. Garcia-Alegre, David Martin, D. Miguel Guinea, Domingo Guinea
11:15	C-2288 DEVELOPMENT OF A REAL TIME MULTI-LENS BASED OMNI-DIRECTIONAL STEREO VISION SYSTEM Liangliang YANG Liangliang YANG, Noboru NOGUCHI, Kazunobu ISHII
11:30	C-1302 3D SIMULATION WITH VIRTUAL STEREO RIG FOR OPTIMIZING CENTRIFUGAL FERTILIZER SPREADING. Jürgen Vangeyte Bilal Hijazi, Jürgen Vangeyte, Frédéric Cointault, Michel Paindavoine, Jan G. Pieters
11:45	C-0345 MEASURING OLIVE LEAF MINERAL CONCENTRATION USING VIS_NIR SPECTRAL REFLECTANCE Zeev Schmilovitch Zeev Schmilovitch, Nativ Rotbart, Yafit Choen, Victor Alchanatis, Uri Yermiyahu
12:00	C-1304 3D TIME-OF-FLIGHT CAMERA-BASED SENSOR SYSTEM FOR AUTOMATIC CROP HEIGHT MONITORING FOR PLANT PHENOTYPING Christian Scholz Ralph Klose, Christian Scholz, Arno Ruckelshausen
12:15	C-0560 SELECTIVE WEED CONTROL BY MEANS OF IMAGE ANALYSIS AND LASER APPLICATION Christian Marx Christian Marx, Julio César Pastrana Pérez, Michael Hustedt, Heinz Haferkamp, Stephan Barcikowski, Thomas Rath

10:55-13:00
(SPC06): APPLICATIONS OF WSN IN AGRICULTURE, PRIVATE SECTOR II
 Moderator: Ole Green
 Location: ROOM 5

10:55	Introduction
11:00	Company (Galtel)

11:30	C-0373 PLANT WATER STATUS IN VINEYARDS COMBINING SENSORS IN SOIL AND PLANT Javier J. Cancela María Fandiño; Emma M. Martínez; Benjamín J. Rey; Javier J. Cancela
11:45	C-0817 WIRELESS SENSOR NETWORKS TO MONITOR MICROCLIMATE VARIABILITY FOR PRECISION VITICULTURE IN CASTILLA-LAMANCHA Francisco Montero García Francisco Montero García, Antonio Brasa Ramos, Francisco Montero Riquelme
12:00	Hands on
12:45	Round table III: Closing & final remarks (Esmaeil Nadimi, Pilar Barreiro, Ole Green, Jorge Del Valle)

227 SESSION

10:55-13:00
(RD):SUSTAINABILITY I
 Moderator: John H Lumkes
 Location: ROOM 6+7

10:55	Introduction
11:00	C-0645 SURVEY OF STRATEGIES METHOD FOR CONSERVATION AGRICULTURE DEVELOPMENT TOWARD SUSTAINABILITY IN IRAN RURAL SOCIETY Masoud Nezamoleslmi Mohammad Emami, Mohammad Hasan Ebrahimi, Babak Pourmehd izanbouri, Masoud Nezamoleslmi, Hadi Tajeddin khoozani, Mohammad Ghahderjani, Mohammad Mehdi Amiri khorie
11:15	C-1104 THE PARAMO ECOSYSTEM, FOREST AND WETLANDS IN THE RIVER BASIN OF RIO GRANDE ANTIOQUIA (COLOMBIA) IN A PROPOSAL OF SUSTAINABLE WATER MANAGEMENT. Eugenio González Castrillón Eugenio González Castrillón
11:30	C-1167 ASSESSMENT OF SYSTEM SUSTAINABILITY INDEX FOR IRRIGATED RICE DOMAIN - A QUANTITATIVE APPROACH Abu Ahmed Mokammel Haque Abu Ahmed Mokammel Haque, Hla Myo Thwe
11:45	C-1205 SMALL SCALE RURAL INFRASTRUCTURE FOR SUSTAINABLE AGRICULTURAL DEVELOPMENT IN AFRICA Josef Kienzle Muhammad Akhtar Bhatti, Josef Kienzle
12:00	C-2343 DESIGN OF A SUSTAINABLE, LOCALLY MANUFACTURABLE, AGRICULTURAL UTILITY VEHICLE FOR DEVELOPING COUNTRIES John H. Lumkes Jr. John H Lumkes

- 12:15 C-1486 DEVELOPMENT OF AGRICULTURAL MECHANIZATION FOR RICE PRODUCTION IN THAILAND
Phakwipa Sutthiwaree
Phakwipa Sutthiwaree, Minli Yang
- 12:30 C-1160 SOIL QUALITY MONITORING AND EVALUATION UNDER CONVENTIONAL PLOW-BASED AND CONSERVATION AGRICULTURE PRODUCTION SYSTEMS IN SOUTHERN PHILIPPINES
Victor Ella
Victor Ella, Manuel Reyes, Agustin Mercado

228 SESSION

10:55-13:00
(SPC03): SPECTROMETRY
Moderator: Manuela Zude
Location: ROOM 8+9

- 10:55 Introduction
- 11:00 C-2214 WATER STRESS DETECTION BASED ON OPTICAL MULTISENSOR FUSION WITH A LEAST SQUARES SUPPORT VECTOR MACHINE CLASSIFIER
Dimitrios Moshou
Dimitrios Moshou, Ioannis Gravalos, Dimitrios Kateris, Xanthoula-Eirini Pantazi
- 11:15 C-0318 MONITORING PHYSICAL PARAMETERS OF TROPICAL FRUITS DURING DRYING BY APPLICATION OF LASER LIGHT IN THE VIS/NIR SPECTRUM
Giuseppe Romano
Giuseppe Romano, Marcus Nagle, Hans-joachim Müller
- 11:30 C-1583 NONDESTRUCTIVE MEASUREMENT OF FRUIT QUALITY BY MEANS OF NIR SPECTROSCOPE AND HYPERSPECTRAL IMAGING TECHNOLOGY
Yanchao Zhang
Yanchao Zhang, Yidan Bao, Yong He, Jiansong Yao
- 11:45 C-1775 USING SPECTRAL MEASUREMENTS TO DIFFERENTIATE BETWEEN ANTHOCYANIN AND BETACYANIN CONTAINING PLANT SPECIES
Reisha Peters
Reisha Peters, Scott Noble
- 12:00 C-2309 COMPARISON OF FOUR NONDESTRUCTIVE SENSORS FOR FIRMNESS ASSESSMENT OF APPLES
Renfu Lu
Renfu Lu, Fernando Mendoza
- 12:15 C-0571 FUSARIUM DETECTION AND DEOXYNIVALENOL CONTENT DETERMINATION IN WHEAT USING FOURIER TRANSFORM INFRARED SPECTROSCOPY
Jitendra Paliwal
Karen Starr, Jitendra Paliwal

229 SESSION

14:00-14:55
(PM) POSTERS SESSION
Location: POSTERS ROOM

- P-0021 SPRAYING CITRUS ORCHARDS WITH ANTIDRIFT NOZZLES
Luis Val Manterola
lucia dolera, rosa vercher, Cruz Garcera Figueroa, José M^a Soler, Luis val
- P-0237 EFFECTS OF DISC PLOUGHING ON THE MORPHOLOGICAL AND PHYSICAL PROPERTIES OF SOILS IN MUBI SOUTH LOCAL GOVERNMENT AREA, ADAMAWA STATE, NIGERIA
Mohammed Abubakar
Mohammed Abubakar, M Ahmed, A. I. Zata
- P-0402 ESTIMATION OF LEAF AREA INDEX (LAI) IN GREENHOUSE TOMATO CROP TO DETERMINE THE VOLUME RATE TO SPRAY
Julian Sánchez-Hermosilla
Victor J. Rincón Cervera, Francisco Cesar Paez Cano, Julián Sánchez-Hermosilla López, José Pérez Alonso, Angel Callejón Ferre
- P-1235 EFFICIENCY OF HYDROPNEUMATIC SPRAYERS FOR PHYTOSANITARY TREATMENT OF FRUIT CROPS GROWN IN THE CUYO REGION, ARGENTINA
Marcos Montoya
Marcos Montoya, Raúl del Monte, Alejandro Ambrogetti
- P-1245 INFLUENCE OF AIR FLOW VARIATION ON SPRAYING AND POWER DEMAND OF HYDROPNEUMATIC SPRAYERS
Marcos Montoya
Marcos Montoya, Raúl del Monte, Alejandro Ambrogetti
- P-1501 ASYMMETRIC CLASSIFICATION OF DRIFT REDUCING NOZZLES CONSIDERING FRONTAL OR LATERAL WIND CONDITIONS.
Jean Paul Douzals
Jean Paul Douzals
- P-1621 EVALUATION OF SPRAY NOZZLES FOR CONTROL OF FUSARIUM HEAD BLIGHT IN WHEAT CROPS
Juan José Olivet Martínez
Juan José Olivet Martínez, Juana Villalba, João Paulo Cunha, Jorge Volpi
- P-1639 A MACHINE PROTOTYPE FOR THE CHESTNUT MECHANICAL HARVEST IN STEEP ZONE
Andrea Formato
Andrea Formato, Domenico Guida, Antonio Lenza, Carlo Palcone, Giampiero Scaglione

P-1665	TECHNO-ECONOMIC EVALUATION OF MECHANICAL WEEDERS IN THE PADDY FIELD Mohammad Reza Alizadeh	P-2360	THE EFFECT OF NITROGEN AND POTASSIUM FERTILIZER ON YIELD, QUALITY AND SOME QUANTITATIVE CHARACTERISTICS OF FLUE-CURED TOBACCO CV.COKER347 Alireza Farrokhi Ali. Reza. Farrokhi, Ibrahim Azizov, Atoosa Farrokhi, Masoud Esfahani, Mehdi Rangbar Chobeh, Mansoud Kavoosi
P-1722	CHEMICAL THINNING RESPONSE OF 'WILLIAMS BON CHRETIEN' PEARS TO VOLUME RATE AND SURFACTANT Jorge Magdalena Carlos Jorge Carlos Magdalena, Mariela Curetti, Rodolfo Rodriguez		
P-1731	EFFECT OF A CROSS FLOW SPRAYER AND AN AIR-CARRIER, AXIAL-FAN SPRAYER ON THE QUALITY DISTRIBUTION, PEST CONTROL AND DRIFT IN AN APPLE ORCHARD Jorge Magdalena Carlos Jorge Carlos Magdalena, Luís Val Mantecola, Alcides Di Prinzio, Sergio Behmer		
P-1749	CHARACTERIZATION OF MANUAL SPRAY GUNS FOR PHYTOSANITARY TREATMENT OF PROTECTED HORTICULTURAL CROPS. TYPOLOGY AND OPERATIONAL PARAMETERS. Francisco C. Páez Cano Francisco Cesar Paez Cano, Victor J. Rincón Cervera, Miguel Giménez, Milagros Fernández, Julian Sánchez-Hermosilla López	P-0029	SOIL MOISTURE AND TEMPERATURE MONITORING FOR SUSTAINABLE LAND AND WATER MANAGEMENT IN TRANSYLVANIAN PLAIN, ROMANIA Teodor Rusu Teodor Rusu, Paula Moraru, Mara Soptean, Adrian Pop, Ileana Bogdan
P-1854	PHYSICAL WEED CONTROL IN URBAN HARD SURFACES AND TURFGRASSES Luisa Martelloni Andrea Peruzzi, Christian Frasconi, Luisa Martelloni, Marco Fontanelli, Michele Raffaelli	P-0030	SOIL TILLAGE CONSERVATION AND ITS EFFECT ON SOIL MANAGEMENT AND CLIMATIC CHANGES Teodor Rusu Paula Moraru, Teodor Rusu
P-1864	EFFECT OF SPACE ON DROPLETS ELECTRICAL CHARGE DURING ELECTROSTATIC SPRAYING Robson Shigueaki Sasaki Robson Shigueaki Sasaki, Mauri Teixeira Martins, Haroldo Carlos Fernandes, Paulo Marcos de Barros Monteiro, Denílson Eduardo Rodrigues, Cleiton Batista de Alvarenga	P-0064	REOURCE AND MANAGEMENT OF WATER IN THE WORLDS Mohammad Sharifmoghaddasi Mohammad Sharifmoghaddasi
P-1875	EFFECT OF WATER VAPOR PRESSURE DEFICIT ON DROPLETS SPECTRUM DURING AN AIR-ASSISTED SPRAY Robson Shigueaki Sasaki Cleyton Batista de Alvarenga, Mauri Teixeira Martins, Sérgio Zolnier, Paulo Roberto Cecon, Robson Shigueaki Sasaki	P-0182	EFFECTS OF THE NITROGEN FERTILIZER AND AZOTOBACTER ON FLOWER YIELD AND CAROTENOID CONTENTS OF MARIGOLD (CALENDULA OFFICINALIS) Mohammad Reza Haj Seyed Hadi Mohammad Reza Haj Seyed Hadi, Mohammad Taghi Darzi, Zohreh Ghandeharivajeh, Gholamhossein Riazi
P-1895	EFFECT OF DROPLET SIZE IN THE CONTROL OF YELLOW LEAF SPOT IN WHEAT Juan José Olivet Martínez Juan José Olivet Martínez, Juana Villaba, Jorge Volpia	P-0483	THE SPATIO-TEMPORAL ANALYSIS OF SOIL VOLUMETRIC MOISTURE CONTENT Yujian Yang
		P-0505	EXPERIMENTAL ASSESSMENT OF ARTIFICIAL MONOLAYERS IN REDUCING EVAPORATION FROM WATER STORAGES Victoriano Martínez-Alvarez Victoriano Martínez-Alvarez, Belén Gallego-Elvira, Bernardo Martín- Górriz, Pam Pittaway, Gavin Brink
		P-0527	ANALYSIS OF LEVELS OF LAND DEGRADATION USING LANDSAT-5, MUNICIPALITIES OF ARARIPINA (PE) CRATO AND BARBALHA (CE) AND MARCOLÂNDIA (PI), BRAZIL. Maria De Fátima Fernandes Fátima Maria De Fátima Fernandes Fátima, Marx Prestes Barbosa, João Miguel Moraes

230 SESSION

14:00-14:55
(SW-SPC01) POSTERS SESSION
Location: POSTERS ROOM

P-0559	WATER TECHNOLOGY IMPROVEMENTS AND THEIR EFFECT ON THE PROFITABILITY OF MEDITERRANEAN WOODY CROPS UNDER DIFFERENT WATER PRICING POLICIES María Dolores de Miguel Gómez María Dolores de Miguel Gómez, Alcon Provincia Francisco José, Fernández-Zamudio Mª Ángeles	P-1241	COMPARISON BETWEEN CURVE NUMBER EMPIRICAL VALUES AND CURVE NUMBER OBTAINED BY HANDBOOK TABLES AT BASIN SCALE IN SICILY, ITALY Francesco D'Asaro Francesco D'Asaro, Giovanni Grillone, Giorgio Baiamonte
P-0589	LAND SUITABILITY EVALUATION BASED ON THE PARAMETRIC EVALUATION APPROACH IN DOSALEGH PLAIN Mohammad Albaji Saeed Boroomand Nasab, Mohammad Albaji	P-1250	EMPIRICAL METHODS TO DETERMINE AVERAGE ANNUAL RUNOFF COEFFICIENT IN SICILIAN BASINS Francesco D'Asaro Giorgio Baiamonte, Francesco D'Asaro, Giovanni Grillone
P-0590	LAND SUITABILITY EVALUATION FOR PRINCIPAL CROPS IN THE GARGAR REGION Mohammad Albaji Jabbar Hemadi, Saeed Boroomand Nasab, Mohammad Albaji	P-1384	EFFECT OF SUGAR CANE HARVEST MACHINERY TRAFFIC ON SOIL COMPACTION IN SUGARCANE FIELDS Heydar Mohammed Ghasem Nejad Maleki Heydar Mohammad-Ghasem Nejad Maleki
P-0675	RAINFALL PATTERN AND STREAMFLOW VARIATION OF THE ATRAK CATCHMENT IN NORTH-EASTERN IRAN. Mokhtar Karami Mokhtar Karami, Sara Aliabadi, Alireza Aliabadi	P-1408	RESPONSE OF SUGAR CANE CROP TO IRRIGATION SPROUTING AND USE OF ORGANIC MULCH IN SOIL COVER IN THE CERRADO REGION, BRAZIL José Alves Júnior Patrick Francino Campos, José Alves Jr, Pedro Henrique Pinto Ribeiro, Rogério Augusto Bremm Soares, Udo Rosenfeld, Adão W. Pego Evangelista, Derblai Casaroli
P-0765	OPTIMAL RESERVOIR OPERATION MODEL WITH A STREAMFLOW NETWORK MODEL AND A GLOBAL OPTIMIZATION METHOD Mingoo Kang Mingoo Kang, Seung Woo Park, Jooheon Lee	P-1517	PAPAYA SEEDLINGS PRODUCTION FROM SOIL GROUP AND FORMOSA GENOTIPS UNDER WATER LEVELS IN SOIL Lucia Chaves Helena Garofalo Lucia Helena Garofalo Chaves, Evandro Franklin de Mesquita Mesquita, Lucia Helena Garofalo Chaves, Flaviana De Andrade Vieira
P-0905	EFFICIENCY OF WATER AND ENERGY USE IN THE CROP OF LACTUCA SATIVA VAR. CAPITATA L. SOME PREVIOUS RESULTS IN A PLOT IN THE SOUTHEST OF SPAIN. Antonio Ruiz Canales Antonio Ruiz Canales, José Miguel Molina Martínez, Daniel G Fernández-Pacheco, Francisco Javier Cánovas Rodríguez, Herminia Puerto Molina	P-1559	APPLICATION OF TREATED DOMESTIC SEWAGE IN THE SOIL FOR DESIGN THE SUBSURFACE DRIP IRRIGATION Marcelo Leite Conde Elaiuy Elaiuy Marcelo Elaiuy Leite Conde, Allan Charles Mendes de Sousa, Leonardo Nazário Silva dos Santos, Edson Eiji Matsura
P-1089	OPERATION AND ENERGY OPTIMIZATION MODEL FOR GHARAH-BAGH WATER CONVEYANCE SYSTEM Mohsen Besharat Mohsen Besharat, Mohammad Taghi Aalami, Avin Dadfar, Sina Besharat	P-1576	EFFECT OF MACHINE TRAFFIC ON SOIL COMPACTION DURING THE SEMI-MECHANIZED PLANTING PROCESS OF SUGAR CANE Adriano Bastos Adriano Bastos Chaves, Henrique Silveira, Francelino Rodrigues Junior, Marcelo José Silva, Paulo S. Graziano Magalhães
P-1190	THE EXPERIENCE OF USING PURIFIED WASTEWATER FOR IRRIGATION IN THE MARINA BAIXA COUNTY (ALICANTE, SPAIN). PROPOSAL OF FUTURE HYDRIC DESIGN PLANS. Miguel Redon Santafe Macarena Cavestany Olivares, Jose Javier Ferran Gozalvez, Carlos Manuel Ferrer Gisbert, Modesto Perez Sanchez, Miguel Redon Santafe, Francisco Javier Sanchez Romero, Juan Bautista Torregrosa Soler, Elvira Santamaría Bravo, Francisco J. Zapata Raboso	P-1593	A STUDY ON THE STREAM MANAGEMENT FLOW SUPPLY FOR THE RESTORATION OF RURAL STREAM ENVIRONMENT AND PREVENTION OF RURAL STREAM DRYING Sang Min Kim Sang Min Kim, Sung Jae Kim, Sung Min Kim

P-1790	DEVELOPMENT OF A CONCEPTUAL MODEL FOR DROUGHT ANALYSIS Hamid Babaei Hamid Babaei, Shahab Araghinejad	P-2161	WATER MONITORING AND CHARACTERIZATION OF WATERSHEDS AS REFLECTION OF SOIL USAGE AND OCCUPATION Michele Cláudia da Silva Michele Michele Cláudia Da Silva, Rodrigo Garcia Brunini, Teresa Cristina Tarlé Pissarra
P-1861	APPLICATION OF MECHANICAL SHAKERS FOR COFFEE HARVESTING Duncan Mbuge Onyango Duncan Mbuge Onyango, Philip Langat	P-2198	EMITTER CLOGGING UNDER LOW HEAD DRIP IRRIGATION WITH UNFILTERED NILE RIVER WATER Mohamed Rashad Abouzeid Mohamed A. Rashad, Mohammed W. M. Elwan, Khalid E. Abd El-Hamed, Samy A. M. Abd El-Azeem
P-1898	DEMAND SIDE MANAGEMENT IN IRRIGATED PERIMETER USING FREQUENCY INVERTER André Luis Carvalho Mendes André Luis Carvalho Mendes, Jorge Henrique A. C. Damião, Maria Joselma Moraes, Delly Oliveira Filho, Gerson Ovidio Luz Pedruzi	P-2201	ASSESSMENT OF EMMITTER DISCHARGE IN LOW HEAD DRIP IRRIGATION SYSTEM AS Affected BY GREYWATER Mohamed Rashad Abouzeid Mohamed A. Rashad, Khalid E. Abd El-Hamed, Mohammed W. M. Elwan, Samy A. M. Abd El-Azeem
P-1905	EFFECTS OF WATER MANAGEMENT PRACTICES ON PADDY RICE YIELD AND EMISSION OF GREENHOUSE GASES Kosuke Noborio Kosuke Noborio, Yuki Kudo, Takashi Kato, Naoto Shimoozono	P-2256	A NEW APPROACH TO DERIVE AND ASSESS SOIL WETTING FRONT MAP UNDER TRICKLE IRRIGATION El-Sayed E. Omran El-Sayed Omran Ewis, Gamal M. Elmasry, Mohamed A. Rashad
P-1966	FIELD CONSERVATION OF RAINWATER WITH ROCK FRAGMENTS Majed Abu-zreig	P-2278	BENCHMARKING OF IRRIGATED AGRICULTURE: THE CASE OF THESSALY-GREECE Evangelini Kitta Constantinos Kittas, Thomas Bartzanas, Nikos Katsoulas, Evagellini Kitta, Adriano Batilliani
P-1996	IDENTIFICATION OF FREE-FORM PARAMETERIZED SOIL HYDRAULIC PROPERTIES IN NON-ISOTHERMAL SUB-SURFACE WATER FLOW USING INVERSE TECHNIQUE Tomoki Izumi Tomoki Izumi, Masayuki Fujihara		
P-2014	ENVIRONMENTAL PLANNING USE OF LAND RESOURCES IN WATERSHEDS, BATATAIS COUNTY, SAO PAULO STATE, BRAZIL Teresa Cristina Pissarra Tarlé Teresa Cristina Pissarra Tarlé, Marcelo Zanata, Sergio Campos, Kati White Migliaccio, Christiano Luna Araeas		
P-2056	COAGULATION USING MORINGA OLEIFERA AND FILTRATION TO REMOVE OOCYSTS OF CRYPTOSPORIDIUM spp THROUGH SIMULATION WITH POLYSTYRENE MICROSPHERES Jose Euclides Paterniani Adriana Ribeiro Francisco, Marcelo jacomini Moreira Silva, Jose Euclides Paterniani	P-0214	PRELIMINARY FINDINGS ON SEASONAL HEAT STRESS OF SHEEP Thomas Bartzanas D. K. Papanastasiou, Thomas Bartzanas, P. Panagakis, Constantinos Kittas
P-2064	MULTIVARIATE STATISTICAL OF PRINCIPAL COMPONENTS AND CLUSTER ANALYSIS IN THE STUDY SUPPORT OF REGIONALIZATION OF FLOW Demetrius David Silva Abrahão Alexandre Alden Elesbon, Demetrius David Silva, Gilberto Chohaku Sediymama, Carlos Antonio Alvares Soares Ribeiro	P-0437	EVALUATING EFFECTIVENESS OF SPRAYING SYSTEMS TO REDUCE HEAT STRESS ON DAIRY COWS Hao Li Hao Li, Zheng Xiang Shi, Chao Yuan Wang, Tao Ding, Linjia Fan, Dinglei Yan, Lihu Bian, Xiaodong He, Ligeng Yu,
		P-0599	EFFECTS OF DIETARY TYPES OR CONCENTRATE-TO-FORAGE RATIOS ON RUMEN METHANE EMISSIONS OF SHEEP Liu Chong Liu Chong Chong Liu, Zhu Zhiping Zhu, Bin Shang, Chen Yongxing Chen, Guo Tongjun Guo, Luo Yongming Luo, Hongmin Dong,

231 SESSION

14:00-14:55
(SPC-05) POSTERS SESSION
Location: POSTERS ROOM

P-0694	MAPPING THERMAL ENVIRONMENT INSIDE BROILER BARNS FOR THE DIAGNOSIS OF COLD STRESS AT BIRD INITIAL GROWING STAGE Luciano Mendes Barreto Luciano Mendes Barreto, Keller Sullivan de Oliveira Rocha, Robinson Osorio Hernandez, Jairo Alexander Osorio Saraz, Ilda de Fátima Ferreira Tinôco, José Helvécio Martins, Adelson Luis Araújo Tinôco,	P-1146	OPTIMIZATION OF LOCAL VENTILATION SYSTEM FOR GASEOUS POLLUTANTS REMOVAL IN BROILER HOUSE USING CFD SIMULATION Peifeng Liu Songming Zhu, Peifeng Liu, Nan Yang, Jinsong He, Zhangying Ye
P-0709	CLEANING OF THE AIR FROM THE MANURE CHANNEL WITH A BIOLOGICAL SCRUBBER: THE EFFECTS ON GAS EMISSIONS AND INDOOR CLIMATE Jos Botermans Jos Botermans; Knut-håkan Jeppsson	P-1460	THE INFLUENCE OF NATURAL SHADING IN THE PRODUCTION INDEX OF BROILERS. Adhemar Pitelli Milani Adhemar Pitelli Milani, Fernando Augusto Souza
P-0767	EXPERIMENTAL STUDY ON A PARTIAL COOLING SYSTEM USING UNDER-GROUND WATER FOR THE OPEN DAIRY BULL BARNS Chaoyuan Wang Liansun Wu, Chao Yuan Wang, Xiaoyan Yuan, Jifeng Zhong, Zheng Xiang Shi	P-1688	EVALUATION OF THE INTERNAL MICRO-CLIMATE OF PIGGY'S HOUSES WITH DIFFERENT TYPES OF FLOORS. Holmer Savastano Junior Débora Caroline Oliveira, Viviane da Costa Correia, César Gonçalves de Lima, Simone Raymundo de Oliveira, Holmer Savastano Junior
P-0842	DETERMINATION OF METHANE PRODUCTION FROM LACTATING GOATS FED DIETS WITH DIFFERENT STARCH LEVELS María del Carmen López Luján María del Carmen López, Fernando Juan García-Diego, Fernando Estellés Barber, Vicente Javier Moya, Concepción Cervera, Carlos Fernández	P-1847	THE PREFERENCE AND PERFORMANCE OF BROILER CHICKENS IN DIFFERENT LIGHT SOURCES Angélica Mendes Angélica Mendes, Sandro José Paixão, Rasiel Restelatto, Juliéli Marostega
P-0853	EFFECT OF DIFFERENT QUANTITIES OF DIETARY BARLEY GRAIN ON METHANE PRODUCTION IN SHEEP María del Carmen López Luján María del Carmen López, Ion Pérez-Baena, José Vicente Martí, Salvador Calvet Sanz, Nemesio Fernández, Carlos Fernández	P-1850	COMPARISON OF DIFFERENT COOLING SYSTEMS IN A DAIRY HOUSE IN MEDITERRANEAN CLIMATE Giovanni Cascone Giovanni Cascone, Rosalia Mazzarella, Giuseppe Licitra, Alessandro D'Emilio
P-0914	FREQUENCY OF COMFORT TEMPERATURE AND HUMIDITY IN NURSERY SWINE OF ILLUMINATION PROGRAMS DURING WINTER AND SUMMER Vilmar Rodrigues de Sousa Júnior Vilmar Rodrigues de Sousa Júnior, Paulo Giovanni de Abreu, Arlei Coldebella, Letícia dos Santos Lopes, Luana Araújo Sabino, Valeria Maria Nascimento Abreu	P-1906	HIGHLIGHTS OF THE AIR QUALITY EDUCATION IN ANIMAL AGRICULTURE PROJECT Richard Stowell Richard Stowell, Jill Heemstra, Ron Sheffield, Eileen.F. Wheeler, Dennis Schulte, Kevin Janni
P-1015	EVALUATION OF HEATING SYSTEMS CREEP AREA FOR PIGLETS IN THE WINTER Paulo Giovanni de Abreu Paulo Giovanni de Abreu, Valeria Maria Nascimento Abreu, Arlei Coldebella, Luana Araújo Sabino, Vilmar Rodrigues de Sousa Júnior	P-1954	TIME DERIVATIVES IN AIR TEMPERATURE AND ENTHALPY AS NON-INVASIVE WELFARE INDICATORS DURING LONG DISTANCE ANIMAL TRANSPORT IN SPAIN AND PORTUGAL Morris Villaruel Robinson Morris Villaruel Robinson, Nora Formoso-Rafferty, Pilar Barreiro Elorza
P-1039	EVALUATION OF THE WELFARE OF BROILER CHICKENS REARED IN DIFFERENT HEATING SYSTEMS Valeria Maria Nascimento Abreu Valeria Maria Nascimento Abreu, Paulo Giovanni de Abreu, Fátima Regina Ferreira Jaenisch, Letícia dos Santos Lopes, Arlei Coldebella	P-1956	DESIGN OF A PIGLET RESTING AREA Manuel Galicia Reyes Manuel Galicia Reyes, Abraham Rojano
		P-2093	MEASURING ENTERIC METHANE FROM SMALL RUMINANTS USING RESPIRATION CHAMBERS: ASSESSING POTENTIAL EFFECTS OF ANIMAL BEHAVIOUR ON THE EMISSION RESULTS Salvador Calvet Sanz José Vicente Martí, Fernando Estellés Barber, Aránzazu Villagrá, Salvador Calvet Sanz

P-2105	IMPLEMENTATION OF OPEN-CIRCUIT CHAMBERS FOR MONITORING GAS EMISSIONS FROM LARGE RUMINANTS Nico Peiren Nico Peiren, Bart Sonck, Jürgen Vangeyte, Sam De campeneere	P-0197	WATER HARVESTING FOR YOUNG TREES USING PELTIER PLATES POWERED BY PHOTOVOLTAIC SOLAR ENERGY Miguel Muñoz-García Miguel Angel Muñoz-garcía, Guillermo Moreda, Manuela-Pilar Raga-Arroyo, Omar Marín-González
P-2141	THERMOREGULATORY RESPONSES OF DAY-OLD CHICKENS SUBMITTED TO SIMULATED TRANSPORT CONDITION: 1. EFFECT OF THERMAL ENVIRONMENT AND BOX PLACEMENT Frederico Vieira Frederico Vieira Márcio Corrêa, Iran Silva, Késia Silva, Aérica Cirqueira Nazareno, Priscila Faria	P-0311	IMAGE ANALYSIS AND MATHEMATICAL MODELING OF DRYING KINETICS IN FLUIDIZED BED IN EPIDERMIS WASTE OF AGAVE ATROVIRENS. Mayuric Hernández-Botello Teresa Mayuric Teresa Hernández Botello, José Jorge Chanona Pérez, Manuel E Sastre de Vicente, José Luis Barriada, María de Jesús Perea Flores, Jorge Alberto Mendoza-Pérez, Hilda María Hernández Hernández
P-2218	INNOVATIVE AIR TREATMENT UNIT TO IMPROVE SEPARATION DISTANCES BETWEEN SWINE BUILDINGS AND NEIGHBOURING POPULATIONS. Martin Belzile Martin Belzile, Matthieu Girard, Stéphane P. Lemay, Stéphane Godbout, Frédéric Pelletier	P-0387	ANAEROBIC DIGESTION TREATMENT FOR THE MIXTURE OF VEGETABLE WASTE JUICE AND SWINE MANURE Sang Hun Kim Sang Hun Kim, Gopi K. Kafle
P-2222	BIOTRICKLING FILTER FOR THE TREATMENT OF SWINE EXHAUST AIR Matthieu Girard Matthieu Girard, Martin Belzile, Stephane P. Lemay, Stephane Godbout, Frederic Pelletier	P-0466	PELLETING FROM SWINE DUNG FOR ENERGY USE In Hwan Oh
P-2296	META ANALYSIS OF SWINE CARCASS CONDEMNATION IN COMMERCIAL SCALE Irenilza Naas Fabiana Ribeiro Caldara, Lesley Soares Bueno, Irenilza De Alencar Naas, Douglas D'alessandro Salgado, Rodrigo Garofallo Garcia	P-0686	METHANE PRODUCTION FROM TOMATOES WASTES VIA CO- FERMENTATION Osman Yaldiz Osman Yaldiz, Salih Sozer
		P-0703	USING FUZZY LOGIC TO CONTROL OXIDATION ZONE TEMPERATURE IN CONCURRENT BIOMASS GASIFIER Svetlana Fialho Soria Galvarro Oscar Luiz Teixeira de Rezende, Jadir Nogueira da Silva, Hans H. Kultz, Svetlana Fialho Soria Galvarro, Cássio Silva Machado
		P-0747	ANAEROBIC DIGESTION OF VINASSE AS ALTERNATIVE SOURCE OF ELECTRICITY Eder Granato Fonzar Eder Granato Fonzar, Jorge de Lucas Junior
		P-0793	NOVEL SUBSTRATES FOR BIOGAS PRODUCTION: PAXILLUS INVOLUTUS AND PHAEOLUS SCHWEINITZII MUSHROOM-BIOMASS Janis Jasko Janis Jasko, Eriks Skripsts, Vilis Dubrovskis
P-0028	STUDY ON FORCED CONVECTION TYPE SOLAR TUNNEL DRYER FOR INDUSTRIAL APPLICATIONS Mahendra Singh Dulawat Mahendra Singh Dulawat, Narendra S. Rathore	P-0885	EFFECT OF THERMAL PRETREATED AGRICULTURAL RESIDUAL ON BIOGAS PRODUCTION Zehra Sapci Zehra Sapci, Roar Linjordet, John Morken
P-0046	EVALUATION OF CADAVERINE TREATMENT CANNABIS (CANNABIS SATIVA) ON THE GERMINATION CHARACTERISTICS SALT STRESS Saeed Radpour Radpour Saeed Radpour Radpour	P-0912	STARCH WASTEWATER TREATMENT IN ANAEROBIC REACTOR CONTAINING DOLOMITIC LIMESTONE Simone Damasceno Gomes Denise Palma; Simone Damasceno Gomes; Marney Pascoli Cereda; Adriana Neres De Lima; Julia P. Fernandes

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P-0028	STUDY ON FORCED CONVECTION TYPE SOLAR TUNNEL DRYER FOR INDUSTRIAL APPLICATIONS Mahendra Singh Dulawat Mahendra Singh Dulawat, Narendra S. Rathore
P-0046	EVALUATION OF CADAVERINE TREATMENT CANNABIS (CANNABIS SATIVA) ON THE GERMINATION CHARACTERISTICS SALT STRESS Saeed Radpour Radpour Saeed Radpour Radpour

P-0990	COMPARISON AND EVALUATION OF QUALITY AND QUANTITY OF BIOGAS DERIVED FROM ANIMAL WASTES IN EXPERIMENTAL CONDITION Rauf Hazinia Rauf Hazinia, Morteza Almassi, Mohammad Ghahderjani, Hosseyn Bakhoda	P-1416	MEASUREMENT OF THERMAL CONDUCTIVITY IN ADOBES WITH "KD2 PRO" DEVICE. MEASUREMENT TIME: INFLUENCE ON OUTCOMES Pablo Mosquera Arancibia Pablo Mosquera Arancibia; Jaime Cid Falceto; Ignacio Cañas Guerrero; Francisco Marcos Martín
P-0997	APPLICATION OF TECHNICAL STANDARD CETESB - P 4.231 FOR DISTRIBUTION OF AGRICULTURAL LAND IN STILLAGE RESIDUE OF THE AGROINDUSTRY STATE OF SÃO PAULO Eder Granato Fonzar Eder Granato Fonzar, Jorge de Lucas Junior	P-1418	MATHEMATICAL MODELS FOR THERMAL CONDUCTIVITY CALCULATION IN MUD BLOCKS FOR BUILDING Pablo Mosquera Arancibia Francisco Marcos Martín, Pablo Mosquera Arancibia, Jaime Cid Falceto, Ignacio Cañas Guerrero
P-1175	THE RESIDUAL EFFECT OF SEWAGE SLUDGE ON TOTAL AND AVAILABLE CHROMIUM AND CADMIUM CONCENTRATION IN SOIL AND RICE PLANT Mohammad Ali Bahmanyar Mohammad Ali Bahmanyar, Akram Ahmadvour	P-1425	USING BIOLOGICAL PROCESS TO DESTROY LIGNOCELLULOSIC STRUCTURE FOR ENERGY CONVERSION Jr_ming Miao Pomin Li, Chingwei Lee, Jr_ming Miao
P-1195	RESPONSE OF DILL (ANETHUM GRAVEOLENS L.) GROWTH CHARACTERS AND MICRONUTRIENTS UPTAKE TO COINOCULATION OF MUNICIPAL WASTE COMPOST AND THREE TRICHODERMA SPECIES Hemmatollah Pirdashti Hemmatollah Pirdashti, alaleh Motaghian, Mohammad Ali Bahmanyar, Bahareh Mottaghian, Yaser Yaghoubian	P-1447	NEW LOW-COST REACTOR CONFIGURATION FOR HIGH-RATE ANAEROBIC DIGESTION AT SMALL DAIRIES Shaun Dustin Shaun Dustin, Zhongtang Yu, Conly Hansen
P-1230	BIOENERGY FOR HEAT AND POWER IN URBAN AREAS: POTENTIAL ROUTES, EVIDENCES FROM CASE STUDIES AND PERSPECTIVES Antonio Pantaleo Antonio Pantaleo, Nilay Shah, Achille Pellerano	P-1511	DISTRIBUTED ELECTRIC ENERGY PHOTOVOLTAIC GENERATION AND ENERGY STORAGE SYSTEMS INSERTION - CASE STUDY OF ONE BRAZILIAN CONSUMER Olga Moraes Toledo Olga Moraes Toledo, Delly Oliveira Filho, Antonia Sonia Alves Cardoso Diniz, Maria Helena Murta Vale, Jose Helvécio Martins
P-1248	DESIGN AND ASSESSMENT OF GREEN-HOUSE USING GROUND SOURCE HEAT PUMP SYSTEM Sung-bok Lee Sung-bok Lee, In-bok Lee, Hyun-seob Hwang, Se-woon Hong, Ilhwan Seo, Kyeong-seok Kwon, Tae-hwan Ha	P-1596	FLOW EFFECT ON THERMAL STRATIFICATION IN A HIGHLY STRATIFIED SOLAR STORAGE TANK Eugenio García-Marí Eugenio García-Marí, Rosa Penélope Gutiérrez-Colomer, María Gasque, Federico Ibáñez, Pablo González-Altozano
P-1251	ENERGETIC AND ENVIRONMENTAL BALANCE OF A BIOGAS PLANT IN NORTHERN ITALY Jacopo Bacenetti Jacopo Bacenetti, Aira Mena, Marco Negri, Piercarlo Cantarella, Stefano Bocchi, Marco Fiala	P-1622	SYNTHESIS AND CHARACTERIZATION OF CELLULOSE NANOPARTICLES OBTAINED FROM AGAVE WASTE BY ELECTRON MICROSCOPY AND X-RAY DIFFRACTION José Jorge Chanona Pérez José Jorge Chanona Pérez, Eduardo Palacios González, Claudia Ericka Ponce Reyes, Vicente Garibay Febles, Georgina Calderón Domínguez
P-1305	BIOLOGICAL NITROGEN REMOVAL CATTLE WASTEWATER FROM SLAUGHTER-HOUSE USING SEQUENCING BATCH REATOR Adriana de Lima Neres Adriana Neres de Lima, Benedito Martins Gomes, Simone Damasceno Gomes, Denise Palma	P-1651	THE STUDY ON THERMAL FLOW PATTERN IN SOIL FOR A GEOTHERMAL HEAT PUMP ACCIDENT Yongbeom Lee Yongbeom Lee, Jaehan Lee, Geum-choon Kang
		P-1862	PHOTOVOLTAIC SOLAR TRACKING SYSTEM TO USE IN RURAL AREAS: MODELING AND EXPERIMENTATION Milena Pinto Faria Milena Pinto Faria; Aurelio Melo; Delly Oliveira

P-1869	INFLUENCE OF A MECHANICAL PRE-TREATMENT ON THE ANAEROBIC DIGESTION PROCESS Paz Gómez Pérez M. Paz Gómez Pérez, M. Begoña Ruiz Fuertes, Andrés Pascual Vidal, Konrad Koch, Diana Andrade	P-2166	ANAEROBIC, AEROBIC AND ANOXIC TREATMENT SYSTEM FOR SWINE WASTEWATER: ORGANIC MATTER, NUTRIENTS AND COLIFORMS REMOVALS Roberto Alves de Oliveira Roberto Alves de Oliveira, Samantha Cristhine dos Santos
P-1900	QUANTIFICATION OF BIOMASS AND LIPIDS PRODUCTION OF MICROALGAE SUPPLEMENTED WITH INCINERATION GASES Rosana Mendonça Peixoto Rosana Mendonça Peixoto, Marcio Arêdes Martins, Lucas De Paula Corredo, Michel dos Santos, Marcelo Pereira Coelho, Emanuele Pereira	P-2265	ANAEROBIC DIGESTION OF CATTLE MANURE CONFINED WITH AND WITHOUT SEPARATION OF SOLID FRACTION Juliana Bega Junqueira Juliana Bega Junqueira, Jorge de Lucas Junior
P-1918	BACILLUS SUBTILLIS AND EXOGENOUS ENZYMES ADDITION TO BROILER DIET AND ITS EFFECTS ON BIOGAS PRODUCTION FROM POULTRY LITTER AND QUALITY TREATED IN CONTINUOUS DIGESTERS Jorge De Lucas Junior Jorge De Lucas Junior, Maria Fernanda Ferreira Menegucci Praes, Jorge De Lucas Junior, Natasha Panosso Okushiro, Lívia Maria Soares Ferreira, Paula Maria Pilotto Branco, Sarah Sgavioli	P-2322	SUGAR CANE AND SUGAR CANE SILAGE IN CO-DIGESTION WITH CATTLE MANURE IN ORDER TO PRODUCE BIOGAS Silvana Loureça de Meneses Silvana Loureça de Meneses, Juliana Bega Junqueira, Jorge de Lucas Junior
P-1943	EFFECT OF FLUIDIZED-BED DRYING ON THE STRUCTURE, DEHULLING AND OIL EXTRACTION OF THE RICINUS COMMUNIS SEEDS (AN ALTERNATIVE SOURCE OF BIOFUELS) Nayeli Vélez Rivera Maria De Jesús Perea Flores, José Jorge Chanona Pérez, Vicente Garibay Febles, Nayeli Vélez Rivera, Eduardo Térres Rojas, Georgina Calderón Domínguez, Israel Arzate Vázquez, Juan Vicente Méndez Méndez	P-0336	MEASUREMENT OF SOLAR RADIATION USING SOLAR MODULE AND ARTIFICIAL NEURAL NETWORK JoonYong Kim JoonYong Kim, Seung-Hwan Yang, ChunGu Lee, Tae Hyeong Kwon, Alireza Ashtiani-Araghi, Young Joo Kim, Joong-Yong Rhee,
P-2063	TREATMENT OF SWINE WASTEWATER IN UASB REACTORS AND BATCH REACTOR WITH AEROBIC PHASE, IN SERIES, AND REUSE IN MAIZE AND SORGHUM PRODUCTION Roberto Alves de Oliveira Roberto Alves de Oliveira, Estevão Urbini	P-0348	DYNAMIC TEST OF SENSORS TO MEASURE THE DISTANCE BETWEEN TWO MACHINES Rodrigo Baldo Fernando Rodrigo Baldo, Rodrigo Zandonadi, Timothy Stombaugh, Paulo S.Graziano Magalhães
P-2067	PERFORMANCE OF ANAEROBIC SYSTEM IN TWO STAGES FOLLOWED OF TRICKLING FILTER FOR TREATMENT OF SWINE WASTEWATER. Rose Maria Duda Rose Maria Duda, Roberto Alves de Oliveira	P-0467	NIR SENSING TECHNIQUE FOR INTERNAL IMAGING OF FARM PRODUCE Tsuneaki Genta Tsuneaki Genta, Hiroto Tashima, Ryo Shimokita, Mitsuo Fukuda
P-2070	EVALUATION OF SYSTEM COMPOSITION ANAEROBIC AND AEROBIC IN THE SWINE WASTEWATER TREATMENT. Rose Maria Duda Rose Maria Duda, Adriana Miranda de Santana Arauco, Roberto Alves de Oliveira	P-0507	DETECTION OF IMAGES WITH HIGH CCD CHARGE LEVEL DUE TO INDIRECT SUNLIGHT IN MAIZE FIELDS. José Miguel Guerrero Hernández José Miguel Guerrero, Martín Montalvo Martínez, Juan Romeo, Diego Oliva, María Guijarro, Gonzalo Pajares
		P-0512	UNSUPERVISED LEARNING FOR CROP/WEEDS DISCRIMINATION IN MAIZE FIELDS WITH HIGH WEED DENSITIES Martín Montalvo Martínez Martín Montalvo Martínez, José Miguel Guerrero, Juan Romeo, Diego Oliva, María Guijarro, Gonzalo Pajares

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P-0654	MODELING THE EXTERNAL AREA OF THE ZUCCHINI USING IMAGE PROCESSING TECHNIQUE Parviz Ahmadi Moghaddam Parviz Ahmadi Moghaddam, Sina Besharat	P-1554	PREDICTION OF RAINFED WHEAT GRAIN YIELD AND BIOMASS USING ARTIFICIAL NEURAL NETWORKS AND MULTIPLE LINEAR REGRESSIONS AND DETERMINE THE MOST FACTORS BY SENSITIVITY ANALYSIS Abdolmohammad Mehnatkesh Abdolmohammad Mehnatkesh, Abdolmohammad Mehnatkesh, Shamsollah Ayoubi, Ahmad Jalalian, Amir Ahmad Dehghani
P-0762	DISPOSABLE NITRATE-SELECTIVE OPTICAL SENSOR BASED ON FLUORESCENT DYE Giyoung Kim Gi Young Kim, Ken Sudduth, Newell Kitchen, Sheila Grant	P-1762	METROLOGICAL CHARACTERIZATION OF TEMPERATURE AND RELATIVE HUMIDITY SENSORS USED IN HYGRO-HERMAL ANALYSIS OF AGRO-FOOD CONSTRUCTIONS César Porras Amores Robert Benyon, Tomás Vicente Mussons, Fernando Ruiz Mazarrón, César Porras Amores, Ignacio Cañas Guerrero
P-0763	DEVELOPMENT OF NANOGOLD-BASED LATERAL FLOW IMMUNOASSAY FOR THE DETECTION OF OCHRATOXIN A Ji Hea Moon Ji Hea Moon, Sang Dae Lee, Gi Young Kim	P-1808	POTENTIAL APPLICATIONS OF LOW-ALTITUDE REMOTE SENSING (LARS) WITH RADIO-CONTROLLED HELICOPTER PLATFORMS: CASE STUDIES ON NUTRIENT AND PEST MANAGEMENT UNDER AGRICULTURAL SYSTEMS IN DEVELOPING COUNTRIES Hemantha P W Jayasuriya Hemantha P W Jayasuriya; Kishore Chandra Swain; Grianggai Samseemoung
P-0777	DESIGN, DEVELOPMENT AND LABORATORY EVALUATION OF A VARIABLE-RATE FLAME WEEDER USING MACHINE VISION Mohammad Loghavi Reihaneh Loni; Mohammad Loghavi	P-2030	DEVELOPMENT A NEW TOOL FOR TASK MONITORING OF PNEUMATIC SEED DRILLS USING SOUND PROCESSING TECHNIQUE Abdolabbas Jafari Abdolabbas Jafari; Ghasem Bahrami
P-0786	DESIGN, DEVELOPMENT AND EVALUATION OF A VARIABLE RATE GRANULAR FERTILIZER APPLICATION SYSTEM BASED ON CROP CANOPY USING MACHINE VISION TECHNOLOGY (CASE STUDY: SAFFLOWER) Mohammad Loghavi Mohammad Loghavi; Vahid Kebriaee	P-2112	THE USE OF ARTIFICIAL NEURAL NETWORKS TO PREDICT THE SPATIAL VARIABILITY OF GRAIN QUALITY DURING COMBINE HARVEST OF WHEAT Gniewko Niedbala Gniewko Niedbala, Miroslaw Czechlowski, Tomasz Wojciechowski
P-0889	DIGITAL IMAGE PROCESSING FOR IDENTIFICATION OF BLACK SIGATOKA IN BANANA CROP Silvia Helena Modenese Gorla da Silva Silvia Helena Modenese Gorla da Silva, Wilson da Silva Moraes, Hugo do Nascimento Bendini, Carlos Roberto Padovani, Juliana Domingues Lima, Danilo Eduardo Rozane, João Francisco Modenese,	P-2204	FEASIBILITY STUDY ON INFORMATIZATION AGRICULTURAL SUPPORTING SYSTEM AND EVALUATION OF ITS VALIDITY Takashi Okayasu Takashi Okayasu, Hiromichi Yoshida, Andri Prima Nugroho, Muneshi Mitsuoka, Eiji Inoue
P-1209	VALIDATION OF GENERAL CALIBRATION MODELS FOR ON-LINE VISIBLE AND NEAR INFRARED SPECTROSCOPY BASED SENSOR FOR MEASUREMENT OF KEY SOIL FERTILITY PROPERTIES Omar Marin Gonzalez Omar Marin Gonzalez, Abdul Mouneim Mouazen		
P-1407	ADAPTIVE RFID SENSING OF RELATIVE TEMPERATURE AND HUMIDITY FOR SMART FARM QUALITY CONTROLLER SYSTEM. Chalitda Madhyamapurush Chalitda Madhyamapurush		
P-1468	CHANG-POINT DETECTION IN TIME-SERIES DATA OF VIBRATION OF AGRICULTURAL MACHINERY BASED ON SST Muneshi Mitsuoka Muneshi Mitsuoka, Kazuaki Nagaosa, Eiji Inoue, Takashi Okayasu		

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P-0036	APPLICATION OF ESSENTIAL OILS FROM ORIGANUM VULGARE L. AND ROSMARINUS OFFICINALIS TO INHIBIT BACTERIA AND MICROFLORA ASSOCIATED WITH MINIMALLY PROCESSED VEGETABLES Tânia Lúcia Stamford Montenegro T.L.M Stamford, G.A Azerêdo, P.C Nunes, N.J Gomes-Neto, E.G Oliveira, E.L Souza	P-0688	COMPARISON OF VACUUM COOLING AND IMMERSION VACUUM COOLING OF SAUSAGES Chaohui Feng Chaohui Feng, Liana Drummond, Zhihang Zhang, Da-Wen Sun
P-0092	AQUEOUS EXTRACTION OF VIRGIN OLIVE OIL USING INDUSTRIAL ENZYMES Alireza Ghodsvali Alireza Ghodsvali, Levente. L Diosady	P-0745	TOMATOES PRODUCED IN THE GREENHOUSE, IRRIGATED WITH RAW WATER AND WASTEWATER, AND ORGANOLEPTIC QUALITY Honorato Ccalli Pacco Honorato Ccalli Pacco, Delvio Sandri, Maria Magdalena Rinaldi, Pedro Henrique Costa Neves; Costa Neves, Ricardo Reis de Moraes Valente
P-0135	COMPARATIVE ANALYSIS OF TOTAL PHENOLICS, FLAVONOID CONTENT AND ANTIOXIDANT PROFILE OF DIFFERENT DATE VARIETIES (PHOENIX DACTYLIFERA L.) FROM SULTANATE OF OMAN Nejib Guizani Nejib Guizani, Vandita Singh, Mohamed Essa, Mohamed Shafiu Rahman	P-0776	MICROWAVE EXTRACTION OF PHENOLIC COMPOUNDS FROM CAPER Gulum Sumnu Ezgi Durmaz, Gulum Sumnu, Serpil Sahin
P-0137	THE EFFECT OF ULTRAVIOLET C IRRADIATION IN MYCELIAL GROWTH OF FUSARIUM SOLANI F.SP. EUMARTII Artur Batista de Oliveira Rocha Artur Batista de Oliveira Rocha, Rosa Helena Aguiar, Sylvio Luis Honório, Claudio Luiz Messias	P-0836	EXPERIMENTAL RESEARCH INTO THE STAGES OF FORMATION OF A CONE OF SUBSTITUTE SEDIMENT IN A WHIRLPOOL LABORATORY TANK Marek Jakubowski Marek Jakubowski
P-0282	SENSORY ANALYSIS OF WHEAT FLOUR AND BREADS ELABORATED WITH OZONE-NATED FLOUR Juliana Paes Lobo Juliana Paes Lobo, Juliana Lobo Paes, Lêda Rita D'Antonio Faroni, Maria Cristina Damas Vanetti, André Rodrigues da Costa, Valéria Paula Rodrigues Minim	P-0924	EVALUATION OF PAD MATERIALS AND SHAPES FOR CONSTRUCTING EVAPORATIVE COOLING SYSTEMS IN THE HUMID TROPICS OF SOUTHWESTERN NIGERIA
P-0423	EFFECTS OF DIFFERENT IMMERSION LEVELS IN WATER ON IMMERSION VACUUM COOLED SAUSAGES Chaohui Feng Chaohui Feng, Liana Drummond, Zhihang Zhang, Da-Wen Sun	P-0956	THE ANALYSIS OF THE MICROSTRUCTURE OF MILK FOULING AFTER THE CLEANING PROCESS IN THE CIP SYSTEM Joanna Piepiorka Stepuk Joanna Piepiorka Stepuk, Katarzyna Tandecka
P-0492	MILK COLLECTION CENTERS DEVELOPMENT IN EASTERN AFGHANISTAN. ADDED VALUE OF ADVANCED TECHNOLOGICAL EQUIPMENT. Pavel Burian Pavel Burian, Vladimir Krepl, Martin Hejral	P-1027	NUTRITIONAL AND COOKING QUALITY VARIABILITY OF SOME GENOTYPES OF COMMON BEANS (PHASEOLUS VULGARIS L.) GROWN IN BRAZIL Silvia Coelho Renata Machado Silvia Coelho Renata Machado, Eduardo Manoel Branco, Nelson da Silva Fonseca Júnior, vanderleia schoeninger
P-0584	EFFECTS OF GAMMA IRRADIATION ON SUGARS COMPOSITION OF WILD MUSHROOMS FROM THE NORTHEAST OF PORTUGAL Amilcar L. Antonio Ângela Fernandes, Amilcar Lopes Antonio, M. Beatriz P. P. Oliveira, Anabela Martins, Isabel C. F. R. Ferreira	P-1083	SAVING ENERGY BY RECYCLING OF THE OUTLET AIR OF FLUIDIZED BED Vahid Varshparvar Vahid Varshparvar, Akbar Arabhosseini, Mohammad Hossein Kiammehr, Seied Reza Hasan-Beigi
P-0652	EFFECT OF ULTRAVIOLET RADIATION C IN THE MORTALITY OF CERATITIS CAPITATA (DIPTERA - TEPHRITIDAE) IN GUAVA Stella Vieira Maria Stella Vieira Maria, Adalton Raga, Benedito Carlos Benedetti, Perla Di Marco Goméz, Rosa Helena Aguiar	P-1118	WATER ABSORPTION MODELING OF HUSK RICE Gabriel Henrique Horta de Oliveira Gabriel Henrique Horta De Oliveira, Paulo Cesar Corrêa, Carmen Jarén
		P-1147	EFFECT OF TEMPERATURE ON BIOFILM FORMATION CELL OF PSEUDOMONAS PUTIDA Kazuya Morimatsu Kazuya Morimatsu, Toshitaka Uchino, Fumihiro Tanaka, Daisuke Hamanaka

P-1204	FUNCTIONAL PROPERTIES OF WHITE SORGHUM ISOLATED BY ALKALI AND ENZYMATIC METHODS Paula Correia Reis Paula Correia, Ana Marques	P-1573	NATURAL VENTILATION IN UNDER-GROUND WINECELLARS Jaime Cid Falceto Fernando Ruiz-Mazarrón, César Porras Amores, Jaime Cid Falceto, Ignacio Cañas Guerrero
P-1278	ANALYSIS OF INPUT USAGE WITH RESPECT TO IMPROVE OF SAFE VEGETABLE PRODUCTION IN GREENHOUSES: THE CASE OF TURKEY Sait Engindeniz Sait Engindeniz, Sait Engindeniz, Gorkem Ozturk Cosar	P-1631	INFLUENCE OF PULSED ELECTRIC FIELD ON AIR FREEZING OF APPLE TISSUE Dorota Witrowa-Rajchert Artur Wiktor, Dorota Witrowa-Rajchert, Tadeusz Chudoba
P-1316	CONVERSION OF NATIVE CELLULOSE INTO 5- HYDROXYMETHYLFURFURAL (HMF) IN IONIC LIQUIDS WITH CATALYSED MICROWAVE-PROMOTED HYDROLYSIS Luis Manuel Navas Gracia Maria Virginia Ozcariz, Viviane Da Silva, Adriana C. Guimaraes, Salvador Hernandez, Luis Manuel Navas Gracia, Pablo Martin-Ramos, Eduardo Perez-Lebeña, Jesus Martingil	P-1671	DOES MUTAGENESIS CAN IMPROVE INDUSTRIAL STRAIN OF DIETZIA NATRONOLIMNAEA HS-1 FOR PRODUCING CANTHAXANTHIN? Seyed Mohammad Taghi Gharibzahedi Seyed Mohammad Taghi Gharibzahedi, Seyed Hadi Razavi, Seyed Mohammad Mousavi
P-1360	DOUGH BUOYANCY TO MONITOR BREAD PRODUCTION PROCESS Lorenzo Guerrini Alessandro Parenti, Lorenzo Guerrini, Paolo Spugnoli	P-1726	RESPONSE SURFACE METHODOLOGY TO OPTIMIZE OF NUTRIENT MEDIUM COMPONENTS FOR CANTHAXANTHIN ENHANCEMENT BY A NOVEL MUTANT ISOLATED FROM DIETZIA NATRONOLIMNAEA HS-1 Seyed Mohammad Taghi Gharibzahedi Seyed Mohammad Taghi Gharibzahedi, Seyed Hadi Razavi, Seyed Mohammad Mousavi
P-1426	ESTABILIDAD DEL HIELO FLUIDO MEDIANTE HIDROCOLOOIDES ALFREDO ALVAREZ CARDENAS Alberto Ignacio Guerrero-Vergara , Alfredo Alvarez-Cárdenas, María Eugenia Ramírez Ortíz	P-1801	INFLUENCIA DEL TIPO DE ALGINATO EN LA ELABORACIÓN DE GELES DE DOS FIGURAS DIFERENTES Maria Eugenia Ramirez Ortiz María Eugenia Ramírez Ortiz, Rothce García Núñez, K. Shantal López García, Omar Flores Olivares, Zaira Berenice Guadarrama Alvarez, Virginia López García, A. Lidia Vizzuet Vega
P-1439	OPTIMIZING THE CONTENT OF ESSENTIAL AMINO ACIDS IN EDIBLE FLOURS OBTAINED FROM CEREALS AND LEGUMINOUS GREEN Steluta Radu Steluta Radu	P-1818	EVALUACIÓN DE LAS PROPIEDADES FUNCIONALES DE PROTEÍNAS Y POLISACÁRIDOS, COMO AGENTES ESPUMANTES Y ESTABILIZANTES EN UN ALIMENTO TRADICIONAL MEXICANO „“TAMAL““ REDUCIDO EN GRASA. Zaira Berenice Guadarrama Alvarez Zaira Berenice Guadarrama Alvarez, María Eugenia Ramírez Ortiz, Virginia López García, Adriana Cruz García, Paulina Merida Yáñez, Antonio Monroy Victoria, Liliana Ponce Hernandez, Tonantzin Zavala Cruz
P-1529	RAPID PROPAGATION OF ROSA HYBRIDA CV. DOLCE-VITA THROUGH TISSUE CULTURE Sajedeh Saeedfar Sajedeh Saeedfar	P-1821	EFFECT OF SURFACE ROUGHNESS ON CLEANABILITY OF MILK FOULING DEPOSITS ON INNER STAINLESS STEEL TUBING John Schueller Ikko Ihara, Erina Nakano, Eric McLamore, John Schueller, Kiyohiko Toyoda, Kazutaka Umetsu, Hitomi Yamaguchi
P-1560	USE OF EVAPORATED WATER FROM CONCENTRATED ORANGE JUICE FOR HUMAN CONSUMPTION Alba Lucia Coelho Andrade Alba Lucia Andrade Coelho, José Euclides Stipp Pterniani, Luiz Antonio Viotto, Rogerio Perujo Tocchini, Daniel Gonçalves		
P-1564	PREDICTING THE POWER REQUIREMENT OF A SELECTED SPIKE-TOOTH STATIONARY GRAIN THRESHER USING A MATHEMATICAL MODEL Victor Ifeanyichukwu Obiora Ndirika		

P-1831	EVALUAR CARACTERÍSTICAS TEXTURALES Y DE ESTABILIDAD EN UN HELADO BAJO EN CALORIAS PARA OPTIMIZAR UNA MEZCLA DE ESTABILIZANTES. Zaira Berenice Guadarrama Alvarez Zaira Berenice Guadarrama Álvarez, Evangelina Hernandez Granada, Virginia López García, Maricela Llanos Martínez, Lizeth Yarazeth Marquez Florez, Mónica Bazan Espinosa, Ninel Flores Saldaña, Andrea Carrillo Matínez	P-2068	DETERMINATION OF RISKY MICROORGANISMS IN FROZEN READY-TO-EAT SEAFOOD SOLD IN ISTANBUL MARKET Suhendan Mol Suhendan Mol, Didem Ucok Alakavuk
P-1859	EFFECT OF THE DURATION OF DEASTRINGENCY TREATMENT ON INTERNAL QUALITY OF PERSIMMON Alejandra Salvador Cristina Besada, Alejandra Salvador, Rebeca Gil	P-2079	EFFECT OF CITRAL CONCENTRATION AND TEMPERATURE ON ESCHERICHIA COLI K12 GROWTH Clara Miracle Belda Galbis Clara Miracle Belda-Galbis, Antonio Martínez, Dolores Rodrigo
P-1865	EVALUATION OF QUATERNARY AMMONIUM COMPOUNDS RESIDUES IN FOOD PLANTS SURFACES: METHOD VALIDATION AND RESIDUE PERSISTENCE Zeinab Mousavi Zeinab Mousavi, Francis Butler, Martin Danaher	P-2091	PROTECTIVE EFFECT OF GRAPE SEED EXTRACT TREATMENT BEFORE AND AFTER FREEZING ON LIPIDS OF BONITO Pinar Yerlikaya Pinar Yerlikaya, Nalan Gokoglu
P-1878	ANTIOXIDANT EFFECT OF STEVIA REBAUDIANA ON INHIBITION OF PEROXIDASE AND POLYPHENOLOXIDASE FROM ORANGE, MANGO AND PAPAYA Clara Miracle Belda Galbis Maria Nieves Criado García, Clara Miracle Belda-Galbis, Dolores Rodrigo, Antonio Martínez	P-2130	APPLICATION OF A CENTRAL COMPOSITE DESIGN APPROACH TO OPTIMIZE HEAT TREATMENTS FOR THE EXTENSION OF FRESH-CUT PEACHES QUALITY Maria Luisa Amadio Maria Luisa Amadio, Fedele Colantuono, Giancarlo Colelli
P-1936	LACTIC ACID FERMENTATION OF MULBERRY LEAVES Serap Duraklı-Velioglu Serap Duraklı-Velioglu, Gulnaz Celikyurt	P-2164	CHEMICAL CHARACTERIZATION OF RHIZOMES AND FLOUR OF ORGANIC SWEETPOTATO (IPOMOEA BATatas L.). Maria Ivone Barbosa Martins Jacintho Camila de Oliveira do Nascimento, Daniel Guimarães Corrêa Moreira Rocha, José Lucena Barbosa Júnior, Maria Ivone Martins Jacintho Barbosa
P-1938	INFLUENCE OF THE FAT BLEND, POLYSACCHARIDES AND EMULSIFIERS IN STABILITY OF BASES FOR WHIPPED CREAM María Eugenia Ramírez Ortiz María Eugenia Ramírez Ortiz, Olivia Yanet Rodríguez Carmona, Jesús David Aguirre Ponce, Andre Jiménez Loyda	P-2240	OPTIMIZATION OF THE EXTRACTION SYSTEM AND METHOD OF HYDROLYSIS FOR INDIRECT QUANTIFICATION OF CYANOGENIC GLYCOSIDES IN FLAXSEED MEAL Alaa El-din Bekhit Teguh Jodjaja, Alaa El-din Bekhit, Adnan Bekhit
P-1946	SOLID-LIQUID EXTRACTION TO OPTIMIZATION OF BIOACTIVE COMPOUNDS RECOVERY FROM GRAPE POMACE. Suely Freitas Pereira Suely Freitas Pereira, Ana Paula Gil Cruz, Alexandre Torres, Flávia Gomes, Lourdes Maria Correa Cabral	P-2257	INVESTIGATION OF OXIDATIVE CHANGES OF EMULSION ENRICHED WITH ANCHOVY OIL AND PLANT EXTRACTS Nalan Gokoglu Nalan Gokoglu, Pinar Yerlikaya
P-1949	HASS AVOCADO OIL: EFFECT OF PROCESSING ON EXTRACTION PARAMETERS Suely Freitas Pereira Isabelle Santana, Lourdes Maria Correa Cabral, Alexandre Guedes Torres, Suely Freitas Pereira	P-2310	DEVELOPMENT OF A MULTI-PURPOSE OPTICAL INSTRUMENT FOR MEASURING SPECTRAL ABSORPTION AND SCATTERING PROPERTIES OF FOOD AND BIOLOGICAL MATERIALS Renfu Lu Renfu Lu; Haiyan Cen; Diwan Ariana
P-1995	EVALUATION OF POLYHENOL EXTRACTION METHODS FROM APPLE POMACE Beatrix Szabó-Nótin Beatrix Szabó-Nótin, Réka Juhász, Mónika Stéger-Máté, József Barta, Dalma Radványi	P-2341	DEVELOPMENT AND THERMAL CHARACTERIZATION OF A-TOCOFEROL NANOCAPSULES Veronica Santacruz-Vázquez Verónica Santacruz-Vázquez, Claudia Santacruz-Vázquez, Jose Oscar Laguna-Cortés

P-2363	NUTRITIONAL AND BIOLOGICAL VALUES OF BEE POLLEN AND BEEBREAD HARVESTED FROM ROMANIA Oltica Stanciu Oltica Stanciu, Liviu Al. Marghitas, Daniel Dezmirlean	P-1135	WIND PRESSURE COEFFICIENT OF PLASTIC GREENHOUSE BY WIND TUNNEL TEST AND CFD SIMULATION Namkyu Yun Namkyu Yun, Yee Paek, Jongkil Jeon, In-Bok Lee
P-2367	AN INDIVIDUAL-BASED TWO-LOCUS MODELLING OF PEST CONTROL IN A SPATIALLY HETEROGENEOUS STORAGE FACILITY WITH PEST IMMIGRATION. Mingren Shi Mingren SHI, Michael RENTON	P-1192	MODELING OF ISOLATED WETTED SOIL VOLUME UNDER SURFACE DRIP IRRIGATION USING FINITE VOLUME METHOD Sérgio Luiz Aguilar Levien Luz Ailton de Araújo Souza, Sérgio Luiz Aguilar Levien, Andre Herman Freire Bezerra
P-2368	PHOSPHINE MORTALITY ESTIMATION FOR SIMULATION OF CONTROLLING PEST OF STORED GRAIN: LESSER GRAIN BORER (RHYZOPERTHA DOMINICA) Mingren Shi Mingren SHI, Michael RENTON	P-1218	MODELING OF WETTED STRIP UNDER SURFACE DRIP IRRIGATION USING FINITE VOLUME METHOD Sérgio Luiz Aguilar Levien Luz Ailton de Araújo Souza, Sérgio Luiz Aguilar Levien, Andre Herman Freire Bezerra
P-2369	INFLUENCE OF ADDITIVES ON FUNCTIONAL PROPERTIES OF COMMON CARP SURIMI GEL Ali Jafarpour Ali Jafarpour	P-1653	NUMERICAL SIMULATION OF THE AIRFLOW AND TEMPERATURE DISTRIBUTION IN A CLOSED VENLO GREENHOUSE UNDER HOT AND ARID CLIMATE Pierre-Emmanuel Bournet Kamel Mesmoudi, Pierre Emmanuel Bournet, Bariza Zitouni, Toufik Outtas
P-2370	FUNCTIONAL PROPERTIES OF FREEZE-DRIED FISH PROTEIN POWDER PREPARED FROM COMMON CARP SURIMI Ali Jafarpour Ali Jafarpour	P-1670	OPTIMIZATION OF AIR FLOW CIRCULATION SYSTEM WITH BRANCHING PERFORATED DUCTS Ryuta Ibuki Ryuta Ibuki, Masud Behnia

235 SESSION

14:00-14:55
(SPC-02) POSTERS SESSION
Location: POSTERS ROOM

P-0647	A CASE STUDY OF AIRFLOW PATTERNS AROUND AN ARCHED TYPE AGRICULTURAL BUILDING: INVESTIGATING MESH CONVERGENCE OF DIFFERENT TURBULENCE MODELS Chao Zong Chao Zong, Wentao Wu, Guoqiang Zhang, Xiong Shen, George Ntinas
P-0900	A SIMULATION FLOW MODEL IN A WHIRLPOOL TANK WITH DOUBLED FILLING INLETS Marek Jakubowski Marek Jakubowski
P-0903	MODELING OF SOIL WATER FLOW WITH ROOT WATER UPTAKE AND EVAPORATION IN SURFACE DRIP IRRIGATION Andre Herman Bezerra Freire Andre Herman Bezerra Freire, Sérgio Luiz Levien
P-0928	THE SIMULATION OF THE MULTIPHASE MIXTURE FLOW IN THE SINGLE TRUCK SMOKING CHAMBER WITH A MODIFIED DISTRIBUTION OF BLOW-OUT SPRAYS Mariusz S. Kubiak Mariusz Kubiak, Marek Jakubowski

236 SESSION

14:00-14:55
(SE)POSTERS SESSION
Location: POSTERS ROOM

P-0013	AN INVESTIGATION ON THE EFFECTS OF ELEVATED CO ₂ AND TEMPERATURE ON CHICKPEA YIELD IN ZANJAN DISTRICT, IRAN (USING SSM SIMULATION MODEL) Behnam Kamkar Nasim Meghdadi, A Soltani, Behnam Kamkar
P-0068	ENGINEERING SOIL AND COAL ASH BASED GROWTH MEDIA FOR CROP PLANTS Jerzy Bilski Jerzy Bilski

P-0248	IRON OXIDE MAGNETIC NANOPARTICLES WITH BIOMATERIAL COATING FOR POTENTIAL APPLICATION IN AGRICULTURAL AND FOOD INDUSTRY Alla Zablotskaya Alla Zablotskaya, Izolda Segal, Mikhail Maiorov, Vizma Nikolajeva	P-0650	STUDY OF CDW'S PRODUCTION IN CASTILLA-LA MANCHA. ESTIMATION METHOD AND VIABILITY OF THE TREATMENT PLANTS Santiago Laserna Arcas Santiago Laserna Arcas, Rosario Sánchez Gómez, Jesús Montero Martínez
P-0293	MARKING THE CONTENT OF PAHS IN SELECTED MEAT PRODUCTS PROCESSED BY INDUSTRIAL SMOKING Mariusz S. Kubiak Mariusz Kubiak	P-0668	EVALUATION OF THE STRUCTURAL STABILITY OF A 9M-WIDE SINGLE-SPAN GREENHOUSE WITH THE HIGH EAVES Sung-hyun Yum Sung-hyun Yum, Seoung-hee Kim, Sang-bong Lee, Min-young Kim, Jin-oh Kim
P-0325	MANUFACTURE AND PROPERTIES OF PARTICLEBOARD MADE FROM MULBERRY PRUNING WASTE Clara Eugenia Ferrández García Clara Eugenia Ferrández García, Teresa García Ortúño, Javier Andreu Rodríguez, Manuel Ferrández-Villena García, María Teresa Ferrández García	P-0678	DEVELOPMENT OF HYDROLYZED PROTEIN DERIVATIVES FOR BIODEGRADABLE SPRAY MULCHING COATINGS Giuliano Vox Evelia Schettini; Luciana Sartore; Marzia Barbaglio; Giuliano Vox
P-0331	RECURSOS PARA SUSTENTAR LA PRESENCIA DE LAS MARIPOSAS (INSECTA: LEPIDOPTERA) EN AGROECOSISTEMAS DEL OCCIDENTE DE CUBA Maria Cristina Escandón Arbolay Maria Cristina Escandón Arbolay; Maria Cristina Escandón Arbolay	P-0715	SYNCHROTRON RADIATION ANALYSIS OF SUGAR CANE ASH AND THEIR CEMENT PASTES BLENDS. Margareth Franco Margareth Franco, Michelle Santos Rodrigues, Sergio Francisco Dos Santos, Antônio Ludovico Beraldo, Heloisa Nunes Bordallo, Laurie Aldridge, Fabiano Yokachihiya
P-0381	EFFECT OF SUBSTRATE ON THE INITIAL DEVELOPMENT OF CEDRELA FISSILIS VELL. (MELIACEAE) SEEDLING Kever Bruno Paradelo Gomes Kever Bruno Paradelo Gomes, Rosana Carvalho Cristos Martins, María de Lourdes Gomes Vilarino, Valdevino Pereira Silva, Ana Carolina Ferraro	P-0725	BOUSSINESQ PROBLEM IN A VENLO TYPE GREENHOUSE Abraham Rojano Abraham Rojano, Raquel Salazar, Jorge Flores, Teodoro Espinosa, Waldo Ojeda
P-0420	THERMAL BEHAVIOR OF MATERIALS USED IN ROOF COVERAGE OF HUSBANDRY BUILDINGS Adhemar Pitelli Milani Adhemar Pitelli Milani, Fernando Augusto de Souza, José Eduardo Pitelli Turco, Eduardo Alves de Almeida	P-0732	STUDY OF VARIOUS POLLUTANTS IN THE PHOSPHATE FERTILIZER INDUSTRY Abbes Mizane Abbes Mizane, Abbes Mizane
P-0516	DESIGN AND OPTIMIZATION OF A WIND CHANNEL FOR NATURAL VENTILATION STUDY Xiong Shen Xiong Shen, Guoqiang Zhang, Jan Ove Johnsen	P-0955	PRACTICAL EXPERIENCES WITH 3 FLOATING COVERS FOR SLURRY STORAGE IN SPAIN Maite Aguilar Ramírez Maite Aguilar Ramírez, Alberto Abaigar Añín, Elena Irujo Baigorri, Pilar Merino Pereda, Salvador Calvet Sanz
P-0566	PREDICTION OF FOOTINGS SETTLEMENT ON SANDS BY FINITE ELEMENT METHOD José Requena Pérez José Requena Pérez, Jesús Ayuso, José R. Jiménez, Francisco Agrela	P-0977	HYGROTHERMAL MODELING OF LIME HEMP MIXES USED AS BUILDING MATERIALS AND INDOOR CLIMATE REGULATION PERFORMANCE CHARACTERIZATION Samuel Dubois Samuel Dubois, Samuel Dubois, Frédéric Lebeau, Arnaud Evrard
P-0638	RECYCLED CONCRETE BEHAVIOR AS A FUNCTION OF TYPE OF NATURAL AGGREGATES USED IN THE MIXTURE Santiago Laserna Arcas Santiago Laserna Arcas, Jesús Montero Martínez, Rosario Sánchez Gómez, Pablo Galletero Montero	P-1046	SIZE EFFECT ON THE MECHANICAL PROPERTIES OF COMPRESSED EARTH BLOCK Walid Ahmed Fouad Abd Elhai Edris Walid Ahmed Fouad Abd Elhai Edris; Gonzalo Ruiz López; Zhang Xiao Xin; Ignacio Cañas Guerrero; Mario Desantos

P-1107 EVALUATION OF THE EFFICIENCY OF HUMIC ACID, FULVIC ACID, HYDROLYZED FISH AND COMPLEX BACTERIAL APPLIED IN TRANSPLANTATION OF EU-CALYPTUS (EUCALYPTUS SPP) SAMPLES TO THE FIELD

Luiz Gustavo Fernandes Julião Fernandes Julião

Luiz Gustavo Fernandes Julião, Evandro Luiz Correa De Souza, Jose Teixeira Filho, Luiz Lonardoni Foloni

P-1180 ASSESSMENT OF CLAY SOILS PRESENT IN EARTHEN RESERVOIRS IN JAÉN (SPAIN)

Carlos Manuel Ferrer Gisbert

Carlos Manuel Ferrer Gisbert, Jose Javier Ferran Gozalvez, Miguel Redon Santafe, Francisco Javier Sanchez Romero, Juan Bautista Torregrosa Soler, Jose Manuel Carrillo Cañizares

P-1181 FARM WINERIES DESIGN: PRELIMINARY INDICATIONS FOR INTEGRATING ENERGY EFFICIENCY IN BUILDING MODELING

Stefano Benni

Patrizia Tassinari, Alberto Barbaresi, Stefano Benni, Daniele Torreggiani

P-1206 VALORIZATION OF PRUNING RESIDUES: THE USE OF PHOENIX CANARIENSIS TO ELABORATE ECO-FRIENDLY PARTICLEBOARDS.

Teresa García Ortúño

Teresa García Ortúño, María Teresa Ferrández García, Javier Andreu Rodríguez, Clara Eugenia Ferrández García, Manuel Ferrández-Villena García

P-1262 AN OBJECT ORIENTED FINITE ELEMENT MODEL THROUGH ITERATIVE METHOD SUPPORTING ELEMENT INDEPENDENCY

HanKi Lee

HanKi Lee

P-1285 POTENTIAL CONTAMINANTS AGENTS IN FEED MILLS: RISKS TO THE HEALTH OF THE HANDLERS

Paulo Carteri Coradi

Paulo Carteri Coradi, José Benício Paes Chaves, Adílio Flauzino Lacerda Filho

P-1342 DYNAMIC MEASUREMENT OF ODOR ABSORBABILITY IN SOIL FILTER DEODORIZER

Seishu Tojo

Seishu Tojo, Tadashi Chosa, Toru Nakajima, Takuya Kikuchi, Kai Iwasawa

237 SESSION

14:00-14:55
(SPC-04) POSTERS SESSION
Location: POSTERS ROOM

P-1266 LIDAR TECHNOLOGY APPLICATION TO AUTOMATIC DETECTION OF THE OLIVE TREE AND YIELD ESTIMATION

Alejandro Sáenz Echeverría

Alejandro Sáenz Echeverría, Carmen Marín, Cristina Velilla Lucini

P-1335 COMPARISON OF LEAVE AREA ESTIMATIONS VIA LASER- SCANNER READINGS AND IMAGE ANALYSIS

Jana Kähnner

Jana Kähnner, Uwe Richter, Florian Pforte, Joern Selbeck

P-1356 RHEA PROJECT ACHIEVEMENT: AN INNOVATIVE SPRAY CONCEPT FOR PESTICIDE APPLICATION TO TREE CROPS EQUIPPING A FLEET OF AUTONOMOUS ROBOTS.

Marco Vieri

marco vieri, Daniele Sarri, Marco Rimedotti, Riccardo Lisci, Andrea Peruzzi, Michele Raffaelli, Marco Fontanelli, Christian Frasconi, Luisa Martelloni,

P-2010 ROUTE PLANNING FOR AUTONOMOUS AND AUTOMATED FIELD MACHINES; AN EVALUATION ON DIFFERENT OPTIMISATION CRITERIA

Dionysis Bochtis

P-2132 MACHINE LEARNING AND FUZZY COGNITIVE MAP LEARNING APPROACHES FOR YIELD PREDICTION IN APPLES

Elpiniki Papageorgiou

Elpiniki Papageorgiou, Katerina Aggelopoulou, Nikolaos Liolios, Theofanis Gemtos, George Nanos

P-2289 HIGH ACCURACY ROBOT TRACTOR NAVIGATION USING LEX SIGNAL OF QZSS

Liangliang Yang

Liangliang Yang, Noboru Noguchi, Ryosuke Takai, Ze Zhang

P-2308 A LASER SCANNER-BASED CROP ROW DETECTION METHOD FOR AUTOMATIC GUIDANCE OF COMBINE HARVESTER

Jongmin Choi

Jongmin Choi, Noboru Noguchi, Kazunobu Ishii

238 SESSION

14:00-14:55
(RD) POSTERS SESSION
Location: POSTERS ROOM

- P-0117 PERFORMANCE OF NAANDANJAIN 435 SPRINKLER USING THE DEFLECTOR POSITION
Ana Paula P. M. Guirra
Ana Paula P. M. Guirra, Ana Paula Pires Maciel Guirra, Jose Renato Zanini
- P-0249 SELF-BUILDING SILO FOR AFRICA RURAL VILLAGES
Matteo Barbari
Matteo Barbari; Massimo Monti; Giuseppe Rossi; Stefano Simonini; Francesco Sorbetti Guerri
- P-0354 BACILLUS THURINGIENSIS-BASED INSECTICIDES RESIDUES IN BROWN FOREST SOILS AND THEIR INFLUENCE ON SOILINHABITING AMMONIFIERS
Hasmik Movsesyan
Masis Sargsyan, Hasmik Movsesyan, Naira Ghazaryan, Arevik Sargsyan, Hasmik Mesropyan
- P-0416 SAVE AND GROW, A NEW PARADIGM FOR SUSTAINABLE INTENSIFICATION AND ITS IMPLICATIONS FOR AGRICULTURAL MECHANIZATION
Josef Kienzle
Theodor Friedrich, Josef Kienzle, Amir Kassam
- P-0497 DEVELOPMENT OF GALICIAN POTATO PRODUCTS BEARING PROTECTED GEOGRAPHICAL INDICATION AS AN EXAMPLE OF AN ACTION FOR RURAL DEVELOPMENT
Enrique Arbones
Enrique Arbones; Manuel Gómez; Ines Piñeiro; Julio Gómez; Ricardo Losada; Florentino Díaz; Jose Chao; Luis Saa
- P-0520 DYNAMICS OF ENVIRONMENTAL DEGRADATION IN THE BASIN OF THE SOLEDADE PB
João Miguel Moraes Neto
João Miguel Moraes Neto; Miguel José Silva
- P-0644 DEVELOPMENT OF MOTORCYCLE TRANSPORT DEVICE
Kayode Simonyan Joshua
Simonyan Kayode Joshua, Olabode Abe
- P-0752 SUSTAINABLE DEVELOPMENT PATTEN OF LIVABLE AND HABITABLE RURAL AREAS FOR CHINESE PEARL RIVER DELTA REGION (PRD) BASED ON REGIONAL CHARACTERISTICS
Huibin Zhu
Huibin Zhu

- P-0757 CHARACTERIZATION OF CARBON DIOXIDE EMISSIONS DURING CONSTRUCTING OF RESERVOIR EMBANKMENT USING LIFE-CYCLE ASSESSMENT METHOD
Sookack Noh
Sookack Noh, Young-hwan Son, Jaesung Park, Tae-ho Bong, Woo-seok Choi
- P-0759 RESEARCH ON THE TREATMENT AND RECYCLING METHODS OF THE DREDGED MATERIALS FROM SMALL STREAMS AND RESERVOIRS IN RURAL AREA OF SOUTH KOREA
Joon Heo
Joon Heo, Seong-Pil Kim, SangHoon Lee, Young-Hwan Son, Tae-ho Bong
- P-0772 CONDITIONS AND TECHNOLOGY FOR REINTRODUCTION OF SERICULTURE INDUSTRY INTO THE EASTERN AFGHANISTAN - VIABILITY STUDY
Pavel Burian
Pavel Burian, Vladimir Krepl, Martin Hejral
- P-0925 THE POTENTIAL FOR INCREASING LOCAL EMPLOYMENT AND LAND OWNERS INCOME FROM WILD HARVESTED NATURAL RESOURCES THROUGH SUSTAINABLE FARMING PRACTICES
Charles Laubscher
Charles Laubscher, Robin Koehorst
- P-0972 SURVEY THE EFFECT OF ON MEDICINAL PLANTS CULTIVATION ON RURAL ECONOMIC IN IRAN
Mohammad Mehdi Amiri khorie
Mohammad Ghahderijani, Mohammad Mehdi Amiri khorie, Masoud Nezamoleslami, Farzaneh Azizzadeh, Shiva Azadbakht
- P-1040 PLANNING RESEARCH FOR CULTURAL TOURISM ROUTE IN CHUANDIXIA VILLAGE, BEIJING
Shan Xu
Shan Xu; Huibin Zhu; Xiaoming Liu; Yujun Zhang
- P-1274 PROBABILITY OF MAXIMUM REFERENCE EVAPOTRANSPIRATION IN MOSSORO-RN, BRAZIL, USING THE GUMBEL PROBABILISTIC DISTRIBUTION MODEL
Andre Herman Bezerra Freire
Andre Herman Bezerra Freire, Sergio Luiz Levien
- P-1329 SURVEY OF AGRICULTURAL MECHANIZATION ECONOMY IN THE STRATEGIC CROPS IN IRAN
Mohammad Mehdi Amiri khorie
Mohammad Ghahderijani, Hasan Moradi, Babak Beheshti, Mohammad Mehdi Amiri khorie, Mehdi Moghadam kouhi
- P-1432 ASSESSMENT TOOL FOR SOIL CHISELING IN LAYERS SIMULTANEOUSLY
José Renê Gassen Freitas
José Renê Gassen Freitas, José Renê Gassen Freitas, Airton dos Santos Alonço, Vilney Dias, Ulisses Baumhardt Benedetti

P-1592	AN ACTIVATION PLANNING OF THE VILLAGE FESTIVALS WITH THE 24 SEASONAL DIVISIONS OF THE YEAR Yi Song Sinho Rhee, Yi Song	P-2307	WOMEN AND WATER FOR DEVELOPMENT: A PRACTICAL JOURNEY TO FOOD SECURITY AND POVERTY REDUCTION IN AFRICA
P-1652	CALCULATION METHOD OF CLIMATIC MODIFICATION AND ITS APPLICATION; THE CASE OF PADDY FIELDS, JAPAN Shin-ichi Takeshita Shin-ichi Takeshita	P-0034	EFFECT OF SQUASH ROOTSTOCKS ON THE YIELD AND SOME YIELD COMPONENTS AND QUALITY OF WATERMELON Hayrettin Kuscu Hayrettin Kuscu, Ahmet Turhan, Nese Ozmen, Vedat Seniz, Sitki Serbeci
P-1689	SITUATION OF PESTICIDES IN SEAFOOD OF TURKEY Safak Ulusoy Safak Ulusoy	P-0104	A COMPARATIVE STUDY OF OLIVE REMOVAL TECHNIQUES AND THEIR EFFECTS ON HARVEST PRODUCTIVITY Zahra Yousefi Zahra Yousefi; Morteza Almassi; Ali Asgar Zeianloo; Reza Moghadasi; Ahmad Golian
P-1728	MATING SYSTEM OF HANDOANTHUS HEPTAPHYLLUS SUBPOPULATIONS BY MICROSATELLITE MOLECULAR MARKERS Neide Tomita Mori Neide Tomita Mori, Caroline Midori Morigata, Mário Luiz Teixeira De Moraes, Edson Seizo Mori	P-1064	DEVELOPMENT OF AN INDUSTRY FOCUSED ON THE PRODUCTION OF SPICE SAFFRON Alfonso Dominguez Padilla Francisco Montoya Sevilla, José Arturo De Juan, Horacio López, Alfonso Dominguez
P-1771	ALLEY CROPPING AS A DURABLE ALTERNATIVE FOR PASTURE LAND DEVELOPMENT IN DROUGHT PRONE MEDITERRANEAN REGION Youssef Chebli Youssef Chebli	P-1159	TECHNICAL AND ECONOMIC EFFICIENCY OF ORGANIC AND CONVENTIONAL DRIED APRICOTS PRODUCTION : CASE STUDY OF TURKEY Gamze Saner Gamze Saner, Hakan Adanacioglu
P-1834	CUSTOM HIRING OF FARM MACHINERIES AND EQUIPMENT AS A BUSINESS MODEL Praveen C Bargale Praveen C Bargale; Radhye Singh	P-1232	QUANTIFYING SUBJECTIVE RURAL DEVELOPMENT POTENTIAL WITH OBJECTIVE MEASURE; LOCAL INFORMATION CONTENT
P-1934	SOLID WASTE MANAGEMENT IN THE RURAL COMMUNITIES LUCAS AND ESTREITO IN THE [MUNICIPALITY OF CAMPINA GRANDE / PB. Luiza Eugênia da Mota Rocha Cirne Luiza Eugênia da Mota Rocha Cirne, Marx Prestes Barbosa	P-1267	ANALYSIS OF THE VALUE CHAIN OF ALPACA FIBER IN AYMARA COMMUNITIES OF PUNO (PERU) Susana Sastre Susana Sastre, Daniel Hernandez, Xavier Negriño, Ignacio de los Rios
P-2029	EVALUATION AND COMPARISON OF STATUS AND POTENTIALS OF MECHANIZATION IN DEVELOPING COUNTRIES: FOUR CASE STUDIES WITH GIS MAPPING FROM NEPAL, RWANDA, MONGOLIA AND LAO PDR. Hemantha P W Jayasuriya	P-1324	LANDSCAPE DEVELOPMENT SCENARIO ANALYSIS BY PANDORA MODEL: AN APPLICATION IN UMBRIA REGION (ITALY) Raffaele Pelorosso Raffaele Pelorosso, Federica Gobattoni, Maria Elena Menconi, Marco Vizzari, David Grohmann, Maria Nicolina Ripa, Antonio Leone
P-2049	FERTILIZATION LEVELS OF COMMON BEAN EUCALYPTUS INTERCROPPED WITH NEWLY PLANTED Abner Carvalho Abner Carvalho, José Eustáquio De Souza Carneiro, Paulo Henrique Barbosa, Marcos Gleidson Santos, Hugo Thiago Amaro, Vanet Souza	P-1347	IMPROVEMENTS OF STATISTICAL MECHANICS OF MONEY CONSIDERING UNCERTAINTY OF ECONOMIC AGENT Sangkyu Eun Sangkyu Eun, Jeong-jae Lee, Yeonjoung Bae
P-2142	MAPPING OF LAND USE CONFLICTS IN AREAS OF PERMANENT PRESERVATION IN THE BARRA BONITA Francienne Oliveira Gois Francienne Oliveira Gois, Odivaldo José Seraphim, Valdemir Antonio Rodrigues	P-1371	ANALYSIS OF THE MILKING WORK ON SERRANA GOAT FARMS IN NE PORTUGAL, IN ORDER TO IMPROVE GOAT BREEDING AND MILK PRODUCTION, IN THIS REGION José Carlos Barbosa José Carlos Barbosa, Francisco Pereira, Vasco Fitas da Cruz

P-1841 PRELIMINARY OUTCOMES FOR THE IMPLEMENTATION OF INTEGRATED COMPUTER-BASED INFORMATION SYSTEMS FOR SUPPLY-CHAIN TRACEABILITY OF CERTIFIED PLANTS

Giovanni Cascone

Simona M. C. Porto, Claudia Arcidiacono, Umberto Anguza, Giovanni Cascone

P-2118 BIODIVERSITY SURVEY OF THE RIBEIRÃO LAVAPÉS IN LAGEADO FARM

Francienne Oliveira Gois

Francienne Oliveira Gois, Odivaldo José Seraphim, Valdemir Antonio Rodrigues, Ana Maria Ruoco, Ligia Linardi, Odemir Freitas Junior, Heloisa Rebello

P-1747 MEASUREMENT OF THE COLOUR INDEX OF EARLY-SEASON CITRUS FRUITS USING COMPUTER VISION

Pau Talens Oliag

Anna Vidal, José Blasco Ivars, José Manuel Prats, Sergio Cubero, Nuria Aleixos Borrás, Florentino Juste, Pau Talens

P-1763 DIRECT QUANTIFICATION OF ENTEROBACTERIAEAE IN CHICKEN FILLETS BY NIR HYPERSPECTRAL IMAGING AND SUPPORT VECTOR REGRESSION

Yao-Ze Feng

Yao-Ze Feng, Da-Wen Sun, Gamal M. Elmasry, Noha Moryc

P-1876 HYPERSPECTRAL QUALIFICATION OF AGED BEEF SIRLOIN

Ferenc Firtha

Ferenc Firtha, Anita Jasper, László Friedrich, József Felföldi

P-1988 THE POTENTIAL OF NEAR INFRARED SPECTROSCOPY AS A METHOD OF DETERMINATION OF THE FAT CONTENT IN YOGURT

Ainara López

Carmen Jarén, Ainara López Maestrelas, Meritxell Gago, Silvia Arazuri, Ainara López, Nerea Arias, Paulo César Correa, Ana Cristina Agulheiro

P-2003 PRELIMINARY APPROACH TO IMAGE STANDARDIZATION FOR THE ELECTRONIC MARKETS ALONG THE FLORICULTURAL PRODUCT CHAIN

Paolo Menesatti

Paolo Menesatti, Stefano Giorgi, Federico Pallottino, Emiliano Canali, Francesca Antonucci, Corrado Costa

P-2011 DEVELOPMENT AND VALIDATION OF THE CALIBRATION MODEL FOR VIS-NIR SPECTROMETER USED FOR THE EVALUATION OF THE DON CONTENT IN WHEAT GRAIN DIRECTLY DURING COMBINE HARVEST.

Miroslaw Czechlowski

Miroslaw Czechlowski, Magdalena Laskowska

P-2038 EVALUATION OF SPANISH COOKED HAM BY NIR HYPERSPECTRAL IMAGING

Douglas Fernandes Barbin

Pau Talens, Leticia Mora, Noha Morsy, Douglas Fernandes Barbin, Gamal M. Elmasry, Da-Wen Sun

239 SESSION

14:00-14:55
(SPC-03)POSTERS SESSION
Location: POSTERS ROOM

P-0334 FUNCTIONALIZATION AND CHARACTERIZATION OF CANTILEVERS AS MICRO-BIOSENSORS FOR THE DETECTION OF PROBIOTICS MICROORGANISMS BY MEANS OF MICROSCOPY AND SPECTROSCOPY TECHNIQUES

José Jorge Chanona Pérez

Angélica Gabriela Mendoza-Madrigal, José Jorge Chanona Pérez, Humberto Hernández-Sánchez, Eduardo Palacios González, Vicente Garibay Febles, Georgina Calderón Domínguez, Juan Vicente Méndez Méndez,

P-1029 APPLICATION OF VIS/NIR SPECTROSCOPY FOR A QUICK QUALITY EVALUATION OF CRAFT BEERS

Roberto Beghi

Valentina Giovenzana, Roberto Beghi, Riccardo Guidetti

P-1214 APPLICATION OF HYPERSPECTRAL IMAGING TECHNIQUE FOR NON-DESTRUCTIVE PH PREDICTION IN SALMON FILLETS

Di Wu

Hong-Ju He, Di Wu, Da-Wen Sun

P-1269 POTENTIAL APPLICATION OF HYPERSPECTRAL IMAGING FOR DETERMINING OVERRIPE BERRIES OF JAPANESE BLUE HONEYSUCKLE

Longsheng Fu

Longsheng Fu, Hiroshi Okamoto

P-1541 AN APPROACH OF LASER-INDUCED BACKSCATTERING IMAGING FOR DETECTING CHILLING INJURY IN BANANAS

Manuela Zude

Manuela Zude, norhashila hashim, Michael Pflanz, Christian Regen, Rimfiel B. Janius, Russly Abdul Rahman, Azizah Osman, Mahendran Shitan

240 SESSION

14:55-16:30
(PM): DRIF AND PLANT PROTECTION
Moderator: Grzegorz Doruchowski
Location: AUDITORIO 1

14:55

Introduction

15:00	C-1613	STUDY OF A TEST METHODOLOGY TO ASSESS POTENTIAL SPRAY DRIFT GENERATED BY AIR-ASSISTED SPRAYERS FOR ARBOREAL CROPS Paolo Marucco Paolo Marucco, Paolo Balsari, Mario Tamagnone
15:15	C-1374	DROPLET CHARACTERISTICS FOR LOW DRIFT NOZZLES: SINGLE AND DOUBLE FLAT FAN NOZZLES. Ariane Vallet Ariane Vallet, Cyril Tinet
15:30	C-1991	MEASURED AND PREDICTED DRIFT IN PESTICIDE APPLICATIONS OF CITRUS IN SPAIN Molto Enrique Cruz Garcia Figueroa, João Paulo Cunha, Enrique Moltó, Patricia Chueca
15:45	C-0332	IMPROVED CONTROL OF IMMATURE AND ADULT INSECTS BY COMBINED AIR BLOWING AND SUCTION DRAG FORCES Samuel Gan-Mor Samuel Gan-Mor, Rafi Regev, David Ben-Yakir
16:00	C-1420	PERFORMANCE OF AN ELECTROSTATIC SPRAYING SYSTEM WITH AIR ASSISTANCE ON SPRAY DRIFT, FUNGICIDE DEPOSITION AND SOYBEAN RUST CONTROL Ulisses Rocha Antuniassi Ulisses Rocha Antuniassi, Maria Aparecida Peres Oliveira, Rone Batista Oliveira, Eivaldo Domingues Velini, Fabiano Victor Siquerl, Cristiano O. Pontelli, Luiz G. F. Beltramello, Samir E. Zaidan

241 SESSION

14:55-16:30
(SW-SPC01): LAND AND WATER MANAGEMENT
Moderator: Gerrit J. Carsjens
Location: AUDITORIO 2

14:55	Introduction
15:00	C-0287 A SCENARIO STUDY ON THE INFLUENCE OF LAND USE CHANGE ON SOIL REDISTRIBUTION: A CASE STUDY FOR THE ALORA REGION, SPAIN Gerrit J. Carsjens Sanne Diek, Luc H.M.A. Joosten, Jeroen M. Schoorl, Martha M. Bakker, Gerrit J. Carsjens
15:15	C-1149 DETERMINATION OF THE WATER PRODUCTIVITY IN LIVESTOCK OPERATIONS: THE INFLUENCE OF FEEDING STRATEGIES IN DAIRY FARMING Michael Krauß Michael Krauß, Simone Kraatz, Annette Prochnow, Katrin Drastig

15:30	C-1815	SOIL MOISTURE CONTENT AND TEMPERATURE AFFECTED BY DIFFERENT MANAGEMENT TECHNIQUES IN SLOPING VINEYARD AND IMPLICATIONS ON RUNOFF Francesca Opsi Francesca Opsi, Marcella Biddocco, Eugenio Cavallo
15:45	C-1740	ENVIRONMENTAL ASSESSMENT OF MANURE SPREADERS: A METHODOLOGY FOR AMMONIA EMISSIONS EVALUATION. Elio Dinuccio Elio Dinuccio, Paolo Balsari
16:00	C-1987	CONTROLLED TRAFFIC FARMING IN GERMANY - TECHNICAL AND ORGANISATIONAL REALISATION AND FIRST RESULTS Markus Demmel Richard Markus Demmel, Robert Brandhuber, Hans Kirchmeier, Martin Mueller, Marc Marx

242 SESSION

14:55-16:30
(SPC-05): ASSESSING THERMAL STATUS & COMFORT
Moderator: Daniella Jorge de Moura
Location: AUDITORIO 3A

14:55	Introduction
15:00	C-1433 DETERMINING HEAT TOLERANCE OF FINISHING PIGS USING THERMAL IMAGING Tami M. Brown-Brandl Tami Brown-Brandl, Roger A. Eigenberg, Joseph L. Purswell, Gary A. Rohrer
15:15	C-0908 THE USE OF THERMAL IMAGES FOR IDENTIFYING STRESS CONDITION IN PIGLETS Alexandra Cordeiro Alexandra Cordeiro, Irenilza De Alencar Naas, Flavia Jacob, Diego Pereira Neves
15:30	C-2242 INSTRUMENTATION SYSTEM FOR THERMAL ENVIRONMENT OF SWINE TRANSPORT TRAILERS Yijie Xiong; Jingwei Su; Weichao Zheng; Angela R. Green; Richard S. Gates
15:45	C-0265 EFFECT OF TEMPERATURE-HUMIDITY INDEX ON LIVE PERFORMANCE IN BROILER CHICKENS GROWN FROM 49 TO 63 DAYS OF AGE Joseph Purswell Joseph L. Purswell, William Dozier III, Hammed A. Olanrewaju, Jeremiah D. Davis, Hongwei Xin, Richard S. Gates
16:00	C-0748 CLUSTER INDEX FOR ACCESSING THERMAL COMFORT FOR BROILER BREEDERS Irenilza De Alencar Naas Danilo Pereira, Irenilza De Alencar Naas, Luis Roberto Almeida, Gabriel Filho, Mario Mollo Neto

16:15 C-1253 DATA MINING APPLIED TO HORSE THERMAL COMFORT
Ana Paula de Assis Maia
 Ana Paula de Assis Maia, Brenda Batista Lemos Medeiros, Rimena do Amaral Vercellino, Juliana Sarubbi, Stanley Robson de Medeiros Oliveira, Paulo Roberto Griska, Daniella Jorge de Moura

243 SESSION

14:55-16:30
(SPC-05): GREENHOUSE GAS EMISSIONS FROM ANIMAL HOUSING
 Moderator: Saqib Mukhtar
 Location: AUDITORIO 3B

- 14:55 Introduction
- 15:00 C-0731 GASEOUS EMISSIONS FROM AVIARIES AND NITROGEN AND PHOSPHORUS LOSSES IN THE OUTDOOR RUN OF ORGANIC LAYING HENS
Peter Groot Koerkamp
 Sanne Dekker, P.w.g. Groot Koerkamp, André J. A. Aarnink, Imke de Boer
- 15:15 C-1480 AMMONIA, GREENHOUSE GAS, AND PARTICULATE MATTER CONCENTRATIONS AND EMISSIONS OF AVIARY LAYER HOUSES IN
Morgan Hayes
 Morgan Hayes; Hongwei Xin; Hong Li; Timothy Shepherd; Yongxing Chen; Yang Zhao; John Stinn
- 15:30 C-1134 GREENHOUSE GAS EMISSIONS FROM A LARGE COMMERCIAL U.S. DAIRY FARM
Teng Lim
 Teng Lim, Yaomin Jin, Ji-Qin Ni, Albert J. Heber, Ruiqiang Liu
- 15:45 C-0432 MEASUREMENT AND ESTIMATION OF GREENHOUSE GAS EMISSION FROM NATURALLY VENTILATED DAIRY CATTLE BUILDINGS
Chaoyuan Wang
 Chao Yuan Wang, Guoqiang Zhang, Zheng Xiang Shi, Wei Cao, Baoming Li
- 16:00 C-1014 AMMONIA AND GREENHOUSE GAS CONCENTRATIONS AND EMISSIONS OF A SWINE BREEDING-GESTATION-FARROWING FACILITY IN THE MIDWESTERN USA
John Stinn
 John Stinn, Hongwei Xin, Timothy Shepherd, Hong Li, Robert Burns
- 16:15 C-0902 NITROUS OXIDE EMISSIONS FROM AN EXPERIMENTAL PIG HOUSE WITH STRAW BEDDING
Sven Nimmermark
 Sven Nimmermark, Knut-Håkan Jeppsson, Ngwa Martin Ngwabie

244 SESSION

14:55-16:30
(EN): GASEOUS BIOFUELS I
 Moderator: Fikret Akinerdem
 Location: MULTIPURPOSE IA

- 14:55 Introduction
- 15:00 C-0880 ORGANIC LOADING RATE EFFECT ON ANAEROBIC DIGESTION: CASE STUDY ON CO-DIGESTION OF LIGNOCELLULOSIC PRETREATED MATERIAL WITH COW MANURE.
Maria Magdalena Estevez Rego
 Maria Magdalena Estevez Rego, John Morken, Roar Linjordet
- 15:15 C-0894 EFFECT OF DIFFERENT THERMAL PRE-TREATMENT TECHNIQUES ON BIOGAS PRODUCTION FROM LIGNOCELLULOSIC BIOMASS: WHEAT STRAW AND SALIX
Zehra Sapci
 Zehra Sapci, Maria M. Estevez, Roar Linjordet, John Morken
- 15:30 C-1068 PILOT SCALE TWO-STAGE PLANT FOR BIOHYDROGEN AND BIOMETHANE PRODUCTION FROM THERMOPHILIC CODIGESTION OF WASTES
Alberto Tenca
 Alberto Tenca, Francesca Perazzolo, Ezio Naldi, Giorgio Provolo, Luigi Bodria, Roberto Oberti
- 15:45 C-1708 ANAEROBIC SLUDGE ADAPTATION TO PIG SLURRY: METHANE YIELD, CHEMICAL COMPOSITION AND SCANNING ELECTRON MICROSCOPY CHARACTERIZATION
Veronica Moset
 Verónica Moset, Pablo Ferrer, Alba Cerisuelo, Antonio G. Torres, María Cambra-López
- 16:00 C-2054 ENHANCEMENT OF BIOHYDROGEN PRODUCTION FROM WASTE SUGAR BY VARIOUS STIRRING SPEEDS
Nima Nasirian
 Nima Nasirian, Morteza Almassi

245 SESSION

14:55-16:30
(IT): PRECISION AGRICULTURE I
 Moderator: Santiago Planas
 Location: MULTIPURPOSE IB

- 14:55 Introduction
- 15:00 C-0567 MOBILE UNIT FOR WIRELESS SENSOR NETWORKS DESIGNED FOR PRECISION AGRICULTURE
Petre Junie
 Petre Junie; Octavian Dinu; Risantea Gagescu; Cristian Eremia; Dan Stefanou

15:15	C-1842	AN INNOVATIVE AUTONOMOUS GROUND MOBILE UNIT FOR THE PRECISION PHYSICAL WEED CONTROL Marco Fontanelli Andrea Peruzzi, Michele Raffaelli, Christian Frasconi, Luisa Martelloni, Marco Fontanelli, Daniele Sarri, Riccardo Lisci, Marco Rimediotti, Marco Vieri	15:30	C-1367	IMPROVEMENT POSSIBILITIES OF SITE SPECIFIC AGRICULTURAL PRODUCTION WITH HYPERSPECTRAL IMAGING AND REFLECTANCE SPECTROSCOPY Kornel Szalay Kornél D. Szalay, József Deákvári, Ferenc Firtha, Adám Csorba, Imre Tolner, László Fenyvesi
15:30	C-2134	SMARTPHONES AND TABLETS INTEGRATION INTO AGRICULTURAL MACHINERIES Lorenzo Fantesini Lorenzo Fantesini, Stefano Marzani, Luca Minin, Alan Pastorelli, Marco Ferretti	15:45	C-2073	AN EMPIRICAL STUDY ON THE VIABILITY OF THE APPLICATION OF SIFT ALGORITHM TO VIDEO STABILIZATION IN CROP FIELDS Nadir Sainz Costa Nadir Sainz-Costa, Xavier P. Burgos-Artiz- zu, P. Javier Herrera, Angela Ribeiro
15:45	C-2171	DEVELOPING A SMALL AUTONOMOUS ROBOT FOR CROP INSPECTION Jesus Conesa Muñoz Jose María Bengoechea-Guevara, Jesús Conesa Muñoz, Angela Ribeiro	16:00	C-0390	AN AUTOMATIC AND COST FREE METHOD FOR PADDY AREA CLASSIFICATION BY THE WAVELET ANALYSIS OF NDVI DATA SERIES Ramadhona Saville Ramadhona Saville, Katsumori Hatanaka
16:00	C-0098	EVALUATION OF LONG-TERM USE OF PRECISION AGRICULTURE TECHNIQUES IN PERMANENT PASTURES IN ALENTEJO João manuel Serrano João Manuel Serrano, José Peça, Shakib Shahidian, José Marques da Silva	16:15	C-1306	PREDICTION OF SOIL ORGANIC CARBON AND CALCIUM CARBONATE CONTENT BASED ON REFLECTANCE SPECTROSCOPY AND MULTIVARIATE MODELING METHODS Adam Csorba Ádám Csorba, Vince Láng, Kornél D. Szalay, Erika Michéli, László Fenyvesi
16:15	C-0153	IPC MONITORING AND CONTROLLING SYSTEM OF HIGH- QUALITY TEA PRODUCTION LINE Lanfang Zhang Qinghua Han, Shujun Li, Yifan Li, Xiao Li, Jin Wang			

246 SESSION

14:55-16:30
(IT): SENSORS II
Moderator: Enrique Moltó
Location: MULTIPURPOSE IC

14:55		Introduction
15:00	C-0408	USE OF ARTIFICIAL NEURAL NETWORK FOR ANALYSIS OF DATA THAT RESULTS OF EXPERIMENTS José Américo Trivellato Messias José Américo Trivellato Messias, Evandro C. Melo, Marcelo L. Silva, José H. Martins, Paulo M. B. Monteiro, Paulo R. Cecon
15:15	C-1605	PREDICTION OF SUGAR CONTENT ALONG THE HEIGHT OF SUGARCANE INTERNODES USING SPECTROSCOPIC METHODS Nazmi Mat Nawi Nazmi Mat Nawi, Troy Jensen, Guangnan Chen, Craig Baillie

247 SESSION

14:55-16:30
(PF): MECHANICAL DAMAGE
Moderator: Veronique Bellon
Location: ROOM 1

14:55		Introduction
15:00	C-0026	SIMULATION AND MODELLING THE MECHANICAL DAMAGE TO COWPEA SEEDS UNDER IMPACT Feizollah Shahbazi Feizollah Shahbazi, Sassan Valizadeh, Ali Dolatshah
15:15	C-1927	INFLUENCE OF SELF-COMPACTATION ON AIR-FLOW RESISTANCE OF WOOD CHIP BULKS Joachim Müller Joachim Müller, Shkelqim Karaj, Klaus Meissner
15:30	C-0535	TEXTURE OF CANARIUM FRUIT (CANARIUM SCHWEINFURTHII ENGL.) PULP Gilles Bernard Nkouam Gilles Bernard Nkouam, César Kapseu, Michel Dirand, Danielle Barth
15:45	C-0273	A STOCHASTIC MODEL FOR FIRMNESS LOSS IN 'BRAEBURN' APPLES DURING CONTROLLED ATMOSPHERE STORAGE Bert Verlinden Jan Van Impe, Annemie Geeraerd, Bart Nicolai, Bert Verlinden, Maarten Hertog, Sunny George Gwanpua Foncham

16:00	C-2128	GEOMETRIC VS. AERODYNAMIC DIAMETER FOR MODELING AIRFLOW RESISTANCE OF WOOD CHIP Shkelqim Karaj Shkelqim Karaj, Joachim Müller, Klauss Meissner
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248 SESSION

14:55-16:30
(SPC02): INDOOR AEROLICS II
Moderator: Juan Ignacio Montero
Location: ROOM 2

14:55		Introduction
15:00	C-1213	ASSESSMENT OF VENTILATION PERFORMANCE IN AGRICULTURAL FACILITIES USING AGE-OF-AIR CONCEPT AND CFD TECHNOLOGY Kyeong-seok Kwon Kyeong-seok Kwon, In-bok Lee
15:15	C-0343	A COMPARISON BETWEEN THREE METHODS FOR ESTIMATING VENTILATION RATE OF A GREENHOUSE Meir Teitel Meir Teitel, Erez Wenger
15:30	C-1825	PRELIMINARY STUDY OF THE DISTANCE BETWEEN GREENHOUSES AND ITS EFFECT TO WIND DRIVEN VENTILATION Ricardo Suay Gonzalo Gomez-Mataix, Juan Ignacio Montero, Vanessa Raya, Ricardo Suay
15:45	C-1023	ANALYSIS OF CLIMATE UNIFORMITY IN A NATURALLY VENTED GREENHOUSE EQUIPPED WITH HIGH PRESSURE FOGGING SYSTEM USING CFD Murat Kacira Ehab Tamimi, Murat Kacira

16:00	C-1965	VALIDATION OF CFD SIMULATION OF AIRFLOW FROM AN AIR CIRCULATOR ABOVE CROP CANOPIES Takeshi Kuroyanagi Takeshi Kuroyanagi
16:15	C-1351	CFD SIMULATIONS OF THE DISTRIBUTED CLIMATE EVOLUTION INSIDE A GLASSHOUSE AT NIGHT Benjamin Morille Benjamin Morille, Romain Genez, Pierre Emmanuel Bournet, Christophe Migeon, Hacene Bouhoum Ali

249 SESSION

14:55-16:30
(SE): ANIMAL HOUSING
Moderator: Christer Nilson
Location: ROOM 3

14:55		Introduction
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15:00	C-1855	TECHNOLOGY AND SUSTAINABILITY. A REVIEW Aad Jongebreur Aad Jongebreur
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15:15	C-1189	CONCEPT OF A LOW-ENERGY DAIRY BARN WITH FORCED VENTILATION Kristina von Bobrutzki Kristina von Bobrutzki, Werner Berg, Jochen Mellmann, Reiner Brunsch
15:30	C-1492	BUILDING COSTS FOR DAIRY BARNs WITH DIFFERENT HERD SIZE, LAYOUT AND BUILDING CONSTRUCTIONS. Geir Naess Geir Naess, Grete Stokstad

15:45	C-1860	INTEGRATED HIGH PRESSURE FOGGING SYSTEM WITH AIR VENTILATION AND CIRCULATION SYSTEMS FOR DAIRY BARNs COOLING Avraham Arbel Avraham Arbel
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16:00	C-0804	NUMERICAL INVESTIGATION ON THE EFFECT OF BAFFLES ON FLOW IN VERTICAL SLOT FISHWAYS Masayuki Fujihara Masayuki Fujihara, Satoshi Yamanaka, Tomoki Izumi, Edward Lapong
16:15	C-0032	STUDY OF FEEDER CALVES STRUCTURES FOR MEDIUM FATTENING HERDS UNDER EGYPTIAN CONDITIONS Mohamed Hatem Hashem mohamed hatem hashem

250 SESSION

14:55-16:30
(SPC04): EU PROJECTS: 3D-MOSAIC AND RHEA PROJECTS
Moderator: Manuela Zude
Location: ROOM 4

14:55		Introduction
15:00	C-0892	CORRELATION ANALYSES OF HIGH RESOLUTION 3D SOIL ELECTRICAL CONDUCTIVITY AND TIME SERIES OF FRUIT QUALITY FEATURES Jana Käthner Jana Käthner, Paolo Rozzi, Manuela Zude
15:15	C-0899	TOWARDS PRECISION MANAGEMENT OF ORCHARDS: USING AUTOMATED MONITORING TO BUILD A GIS-BASED SPATIAL DECISION SUPPORT SYSTEM Amots Hetzroni Amots Hetzroni, Aviva Peeters, Alon Ben-Gal
15:30	C-1078	COMPARISON OF RADIO PATH LOSS MODELS FOR WIRELESS SENSOR NETWORKS IN ORCHARD ENVIRONMENTS Manuela Zude Stavros Vougioukas, Hristos Anastasiu, Christian Regen, Manuela Zude

15:45	C-1332	NON-DESTRUCTIVE OPTICAL ASSESSMENT OF PHOTON PATH LENGTHS IN FRUIT DURING RIPENING: IMPLICATIONS ON DESIGN OF CONTINUOUS-WAVE SENSORS Alessandro Torricelli Alessandro Torricelli, Lorenzo Spinelli, Jana Kaethner, Joern Selbeck, Alberto Franceschini, Paolo Rozzi, Manuela Zude,
16:00	C-1500	NAVIGATION AND TREE MAPPING IN ORCHARDS Hans W. Griepentrog Claes L. Jaeger-Hansen, Hans W. Griepentrog, Jens C. Andersen
16:15	C-1663	THE RHEA PROJECT: USING A ROBOT FLEET FOR A HIGHLY EFFECTIVE CROP PROTECTION Pablo Gonzalez-de-Santos Pablo Gonzalez de Santos, Cesar Fernandez-Quintanilla, Angela Ribeiro

251 SESSION

14:55-16:30
(SPC06): WSN IN ENVIRONMENTAL MONITORING I
Moderator: Victoria Blanes
Location: ROOM 5

		Introduction
15:00	C-1286	SITE SPECIFIC AUTOMATED DRIP IRRIGATION FOR PALM TREES USING WIRELESS SENSOR NETWORK Hema N Krishnamurthy Hema N Krishnamurthy, Krishna Kant, Hima Bindu Maringanti
15:15	C-1955	A WIRELESS SENSOR NETWORK FOR PRECISE SOIL WATER MANAGEMENT IN AN ORCHARD Takashi Togami Takashi Togami, Kyosuke Yamamoto, Ryoei Ito, Atsushi Hashimoto, Takaharu Kameoka
15:30	C-1937	CLIMATIC CHANGES AND EVALUATION OF THEIR EFFECTS ON AGRICULTURE IN ASIAN MONSOON REGION Masaru Mizoguchi
15:45	C-1361	ADAPTIVE RFID SENSING OF RELATIVE TEMPERATURE AND HUMIDITY FOR SMART FARM QUALITY CONTROLLER SYSTEM. Chalidta Madhyamapurush Chalidta Madhyamapurush
16:00	C-0551	SMART FUZZY CONTROL OF A SOLAR DRYER THROUGH USING LOW-COST MODEL-BASED SENSORS Heidi Tatiana Jimenez Ariza Alik Abakarov, Heidi Tatiana Jiménez, Eva Cristina Correa Hernando, Belén Diezma, Francisco Javier Arranz, Javier García Hierro, José Ignacio Robla Villalba, Pilar Barreiro Elorza

16:15	Round table IV (Vahid Tarokh, Pilar Barreiro, Esmaeil Nadimi)
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252 SESSION

14:55-16:30
(RD): LANDSCAPE 2
Moderator: Daniele Torreggiani
Location: ROOM 6+7

14:55		Introduction
15:00	C-1697	TECHNOLOGICAL CHANGE IN PADDY PRODUCTION: A COMPARATIVE ANALYSIS OF TRADITIONAL AND DIRECT SEEDING METHODS OF CULTIVATION Radhey Shyam Singh Radhey R S Singh Shyam Singh Radhey
15:15	C-0729	ENGINEERING CONSEQUENCES OF CHANGING TRAFFIC FLOWS ON MINOR RURAL ROADS IN A DEVELOPING MULTIFUNCTIONAL EUROPEAN COUNTRYSIDE C.F. (Rinus) Jaarsma C.F. (Rinus) Jaarsma, C.M.L. (Tia) Hermans, W.A. (Willem) Rienks, J.r. De Vries
15:30	C-0457	CHARACTERIZING THE SPECIFIC MECHANICAL ENERGY REQUIREMENT (SME) OF EXTRUDATES OF CASSAVA AND CEREALS FROM A LOCALLY DEVELOPED EXTRUDER Folasayo Fayose Titilola Folasayo Fayose Titilola, Leo. Agbetoye
15:45	C-2269	MEANS OF SAMPLING IN RURAL LANDSCAPE VALUATION. THE USE OF PHOTOREALISTIC VISUAL PRESENTATION. Maria-Jesus Montero Parejo María Jesús Montero Parejo, Sergio López-Casares, Lorenzo García-Moruno, Julio Hernández Blanco
16:00	C-2251	THE VALORISATION AND CHARACTERISATION OF THE AGRARIAN TERRACED LANDSCAPE. A CASE STUDY IN THE COSTA VIOLA AREA (ITALY) Giuseppe Modica Salvatore Di Fazio, Giuseppe Modica
16:15	C-1698	IMPACT OF SELF PROPELLED PADDY TRANSPLANTER IN KERALA Radhey Shyam Singh Radhey R S Singh Shyam Singh Radhey, KVR Rao Ankur

253 SESSION

14:55-16:30
(SPC03): HYPERSPECTRAL IMAGING I
Moderator: Jozsef Felfoldi
Location: ROOM 8+9

14:55	Introduction
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15:00	C-0221	SELECTION OF OPTIMAL WAVELENGTH FEATURES FOR DECAY DETECTION IN CITRUS FRUIT USING THE ROC CURVE Delia Lorente Garrido Delia Lorente, Juan Gómez-Sanchis, Nuria Aleixos Borrás, Sergio Cubero, Oscar Leonardo García-Navarrete, Antonio Serrano, Emilio Soria, Jose Blasco Ivars
15:15	C-0304	HYPERSPECTRAL IMAGING OF INTACT BELL PEPPERS Zeev Schmilovitch Zeev Schmilovitch, Timea Ignat, Victor Alchanatis, Jozsef Felfoldi
15:30	C-1200	PREDICTION OF BEEF CHEMICAL COMPOSITION BY NIR HYPERSPECTRAL IMAGING Gamal ElMasry Gamal M. Elmasry, Da-Wen Sun, Paul Allen
15:45	C-1636	NIR HYPERSPECTRAL IMAGING FOR FAT QUANTIFICATION IN MINCED PORK Douglas Fernandes Barbin Douglas Fernandes Barbin, Gamal M. Elmasry, Da-Wen Sun, Paul Allen
16:00	C-0596	SPATIAL MAPPING OF MOISTURE CONTENT IN TOMATO FRUITS USING HYPERSPECTRAL IMAGING AND ARTIFICIAL NEURAL NETWORKS Kaveh Mollazade Kaveh Mollazade, Mahmoud Omid, Fardin Akhlaghian Tab, Sayed Saeid Mohtasebi, Manuela Zude

254 SESSION

14:55-16:30
(PM): SPRAYERS AND DOSES

Moderator: Samuel Gan Mor
Location: AUDITORIO 1

14:55		Introduction
15:00	C-0391	A SPRAYING SYSTEM DEVELOPED FOR VARIABLE PESTICIDE DOSAGE WITHOUT USING PESTICIDE INJECTION METHODS Nils Bjugstad Nils Bjugstad, Tore Ensbø, Espen Hugo Holth, Ole Kristian Moen, Henrik F Thorstensen
15:15	C-2334	QUALITY OF APRICOT ORCHARD PROTECTION BASED ON THE TYPE OF AIR ASSISTED SPRAYERS AND APPLICATION RATES Aleksandar Sedlar Aleksandar Sedlar, Rajko Bugarin
15:30	C-1547	AIR VELOCITY DISTRIBUTIONS FROM A VARIABLE-RATE AIR- ASSISTED SPRAYER FOR TREE APPLICATIONS Heping Zhu Heping Zhu

15:45	C-1568	SPRAYING QUALITY ASSESSMENT OF SPRAYERS DEVOTED TO MOSQUITO CONTROL. Vincent De Rudnicki Vincent De Rudnicki, Jean Paul Douzals, Michel Tolosa, Nicolas Sidos, Eric Cotteux
16:00	C-1614	DEVELOPMENT OF A NEW SPRAYER FOR PPP APPLICATION IN KIWI ORCHARDS \'PERGOLA\' TRAINED Paolo Marucco Paolo Balsari, Mario Tamagnone, Gianluca Oggero, Paolo Marucco

255 SESSION

16:55-18:30
(SW-SPC01): SOIL WATER RELATIONSHIPS

Moderator: Nery Zapata
Location: AUDITORIO 2

16:55		Introduction
17:00	C-0058	ESTIMATION OF REFERENCE EVAPOTRANSPIRATION FROM CLIMATIC DATA IN KURDISTAN REGION-IRAQ Mohammed Azeez Saeed Mohammed Saeed Azeez
17:15	C-2273	EVALUATION OF THE MICRO-SCALE ADVECTION EFFECT ON THE SOIL WATER MOVEMENT IN MICRO- IRRIGATED FIELDS
17:30	C-1035	EVALUATION OF SOIL WATER PROFILE SIMULATIONS IN DRIP IRRIGATION BASED ON SOIL HYDRAULIC PROPERTIES WITH EXPERIMENTAL OBSERVATIONS Sina Besharat Sina Besharat, Neda Khanmohammadi, Hossein Rezaie, Javad Behmanesh

256 SESSION

16:55-18:30
(SPC-05): ENHANCING THERMAL ENVIRONMENT

Moderator: Hongwei Xin
Location: AUDITORIO 3A

16:55		Introduction
17:00	C-0316	THE USE OF OUTDOOR YARDS BY SHEEP DURING WINTER Grete Helen Jørgensen Meisfjord Grete Helen Jørgensen Meisfjord, Knut Egil Boe
17:15	C-1421	EFFECTS OF DIFFERENT PIG HOUSES ON INDOOR ENVIRONMENTAL PARAMETERS AND GROWTH PERFORMANCE OF GROWING AND FINISHING PIGS Anguo Chen Anguo Chen, Xuping Wang, Guoqi Liang, Qihua Hong, Caimei Yang

17:30	C-1866	COMPARISON OF DIFFERENT AIR SUPPLY AND COOLING SYSTEMS IN PIG FATTENING HOUSES Joachim Threm Joachim Threm; Eva Gallmann; Wilhelm Pflanz; Thomas Jungbluth
17:45	C-1549	COOLING COWS: THE UDDER WAY Kifle Gebremedhin Kifle Gebremedhin, Chin Lee, Jamie Larson, Jeremiah D. Davis
18:00	C-1069	DEVELOPMENT OF A SMART PHONE APP FOR HEAT STRESS DETECTION AND MITIGATION IN LIVESTOCK Donald Spiers Donald Spiers, Brad Scharf, Peggy Ann Eichen

16:55-18:30
(SPC-05): EMISSIONS ABATEMENT & CONTROL
Moderator: Christopher Wathes
Location: AUDITORIO 3B

16:55		Introduction
17:00	C-0368	METHODS TO REDUCE AIRBORNE DUST CONCENTRATIONS IN A LOOSE-HOUSING SYSTEM FOR LAYING HENS Gosta Gustafsson Gosta Gustafsson, Eva Von Wachenfeld
17:15	C-0833	POSSIBLE MEANS OF REDUCTION OF AIRBORNE POLLUTANTS IN AND FROM POULTRY HOUSES Stefan Linke Stefan Linke, Torsten Hinz, Karl-Heinz Krause, Jochen Hahne, Tatjana Winter
17:30	C-0405	REMOVAL EFFICIENCY OF A WIRE-TO-PLATE ELECTROSTATIC PRECIPITATOR FOR ABATEMENT OF PARTICULATE MATTER EMISSIONS FROM POULTRY HOUSES Albert Winkel Albert Winkel, Julio Mosquera, Nico W. M. Ogink
17:45	C-1507	USE OF ZINC OXIDE NANOPARTICLES TO CONTROL HYDROGEN SULPHIDE, AMMONIA AND ODOUR EMISSIONS FROM PIG BARNs Bernardo Predicala Bernardo Predicala, Bernardo Predicala, Alvin Alvarado, Daisy Asis
18:00	C-1714	QUANTIFICATION OF THE NH3 ADSORPTION ON DUST AND ITS CONSEQUENCES ON THE DESIGN OF BIOFILTERS FOR THE REMOVAL OF AERIAL POLLUTANTS IN PIGGERIES Lomig Hamon Lomig Hamon, Solène Lagadec, Eric Dumont, Brigitte Landrain, Paul Landrain, Yves Andrès

18:15	C-0683	ODOUR AND AMMONIA REDUCTIONS IN VENTILATION AIR FROM A UNIT WITH GROWING-FINISHING PIGS USING A 3-STEP AIR CLEANER Anders Leegaard Riis Anders Leegaard Riis
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SESSION

16:55-18:30
(EN): GASEOUS BIOFUELS II
Moderator: Zehra Sapci
Location: MULTIPURPOSE IA

16:55		Introduction
17:00	C-1298	ANAEROBIC DIGESTION IN NORTHERN ITALY: THE SITUATION IN PIEMONTE REGION Fabrizio Gioelli Fabrizio Gioelli, Paolo Balsari, Elio Dinuccio
17:15	C-2157	HOW EFFICIENT ARE AGITATORS IN BIOGAS DIGESTERS? DETERMINATION OF THE EFFICIENCY OF SUBMERSIBLE MOTOR MIXERS AND INCLINE AGITATORS BY MEASURING THE NUTRIENT DISTRIBUTION IN BIOGAS DIGESTERS Hans-Joachim Nägele Hans-Joachim Nägele Naegel
17:30	C-1446	DESIGN AND IMPLEMENTATION OF ON-SITE PILOT SCALE IBR ANAEROBIC DIGESTERS Shaun Dustin Shaun Dustin, Zhongtang Yu, Conly Hansen

259
SESSION

16:55-18:30
(IT): SENSORS III
Moderator: Gilber Grenier
Location: MULTIPURPOSE IC

16:55		Introduction
17:00	C-1806	POTENTIAL TECHNOLOGIES TO MEASURE SUGARCANE QUALITY IN THE FIELD Nazmi Mat Nawi Nazmi Mat Nawi, Troy Jensen, Guannan Chen, Craig Baillie
17:15	C-0475	GEOLOCATION AND INFORMATION MANAGEMENT OF FARMS WEB BASED. VISUALNACERT, THE SEEKER OF AGRICULTURE Mercedes Iborra Brosetqa Mercedes Iborra Brosetqa, Elisa Peñalvo

17:30	C-1349	GIS ANALYSIS FOR THE STUDY OF RURAL DEPOPULATION: THE KINGDOM OF VALENCIA (TOMAS LOPEZ 1789) Carlos San-Antonio Gomez Carlos San-Antonio Gomez, Francisco Manzano-Aguilaro, Josefina Martinez-Garcia
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17:45	C-2156	WIRELESS SELF-POWERED TRANSDERS AND MULTI- SENSING UNIT TO ENABLE ISOBUS IDENTIFICATION OF MECHANICAL IMPLEMENTS Lorenzo Fantesini Gino Mainardi, Marco Ferretti, Stefano Marzani, Stefano Scorcioni, Alessandro Bertacchini, Luca Larcher, Denis Dondi, Lorenzo Fantesini
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260 SESSION
16:55-18:30 (PF): STORAGE TECHNIQUES
Moderator: Daniel Valero
Location: ROOM 1

16:55		Introduction
17:00	C-1355	CAMBIOS DE LA GUANÁBANA (ANONA MURICATA L. CV. ELITA) DURANTE SU VIDA POSTCOSECHA Carlos Julio Márquez Cardozo Carlos Julio Marquez Cardozo
17:15	C-2116	NOVEL PLA EMAP SYSTEM FOR CHERRY TOMATOES AND PEACHES ABLE TO REGULATE THE TARGETED IN-PACKAGE ATMOSPHERE - PART II: EXPERIMENTAL AND NUMERICAL VALIDATION Demetres Briassoulis Demetres Briassoulis; Anastasios Giannoulis; Antonis Mistriotis
17:30	C-2136	STUDIES ON SHELF LIFE OF SOYPANEER AT AMBIENT CONDITION Smita Khodke Smita Khodke, Shradhha Velhal, Shiva Iathal
17:45	C-1038	IMPACT OF TEMPERATURE AND RELATIVE HUMIDITY ON THE TRANSPIRATION RATE OF POMEGRANATE ARILS Oluwafemi Caleb Oluwafemi J. Caleb, Oluwafemi J. Caleb, Pramod V. Mahajan, Umezuruike Linus Opara

261 SESSION
16:55-18:30 (SPC02): INDOOR AEROLICS III
Moderator: Thomas Banhazi
Location: ROOM 2

16:55		Introduction
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17:00	C-2097	A CFD ANALYSIS OF A FULLY-STOCKED VENTILATED LIVESTOCK VEHICLE DURING DIFFERENT MODES OF TRANSPORTATION Tomas Norton Tomas Norton, Jairo Saraz, Malcolm Mitchell, Peter Kettlewell
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17:15	C-2232	NATURAL VENTILATION OF COMMERCIAL DAIRY COW HOUSES: SIMULATING THE EFFECT OF ROOF SHAPE USING CFD Athanasiou Sapounas Athanasios Sapounas, Hendrik Jan van Dooren, Michel Smits
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17:30	C-0472	CFD ANALYSES OF TEMPERATURE DISTRIBUTION IN A HYBRID VENTILATED PIG UNIT Bjarne Bjerg Bjarne Bjerg, Peter Hansen, Erling Friis Petersen
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17:45	C-0474	CFD ANALYSES OF THE INFLUENCE OF AIR INTAKE ON THE EFFECTIVENESS OF A PARTLY PIT EXHAUST SYSTEM Bjarne Bjerg Bjarne Bjerg, Guoqiang Zhang
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18:00	C-0874	COMPUTATIONAL MODELLING AND SCALE MODEL VALIDATION OF AIRFLOW PATTERNS IN NATURALLY VENTILATED BARNS Merlijn De Paepe Merlijn De Paepe, Jan G. Pieters, Bart Merci, Wim M. Cornelis, Donald Gabriels, Peter Demeyer
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262 SESSION
16:55-18:30 (SE): RURAL BUILDING AND LANDSCAPE
Moderator: Jose Maria Fuentes
Location: ROOM 3

16:55		Introduction
17:00	C-0916	REUSE OF VACANT AGRO-INDUSTRIAL BUILDINGS. THE CASE OF THE PUBLIC SLAUGHTERHOUSES IN SPAIN José María Fuentes Pardo José María Fuentes, Ana Isabel García, Carlos González-Montellano, Eutiquio Gallego, Francisco Ayuga
17:15	C-1721	SPACE-TIME ANALYSIS OF THE URBAN-RURAL GRADIENT IN THE METROPOLITAN AREA OF MADRID AND ITS SURROUNDINGS (GUADALAJARA AND TOLEDO) Ana Isabel García Susana Díaz-Palacios, Francisco Ayuga, Ana Isabel García
17:30	C-0812	INTEGRATING LANDSCAPE QUALITY IN FARM BUILDING DESIGN: ASSESSMENT OF THE MAIN MORPHOLOGICAL FEATURES OF RURAL BUILDINGS Patrizia Tassinari Stefano Benni, Daniele Torreggiani, Enrica Dall'Ara, Patrizia Tassinari

- 17:45 C-1904 RESEARCH OF DIMENSIONING CRITERIA FOR FARM WINERY DESIGN: ANALYSIS OF SPATIAL LAYOUTS IN A STUDY AREA
Stefano Benni
 Patrizia Tassinari, Daniele Torreggiani, Stefano Benni, Valentina Corzani
- 18:00 C-1675 HYDROSEEDING FOR REVEGETATION IN A SEMIARID MEDITERRANEAN ENVIRONMENT
Mariangela Vallone
 Pietro Catania, Marco Salvia, Mariangela Vallone

263 SESSION

16:55-18:30
(SPC04): PRECISION AGRICULTURE FOR ORCHARD
 Moderator: Qim Zhang
 Location: ROOM 4

- 16:55 Introduction
- 17:00 C-0181 DEVELOPMENT OF A PLANT WATER STRESS MODEL, BASED ON INFRARED THERMOGRAPHY, AND THEIR APPLICATION IN AN OLIVÉ OIL ORCHARD
Stanley Best Sepulveda
 Stanley Best, Lorenzo Leon, Rodrigo Quintana
- 17:15 C-0253 COMPARATIVE STUDY OF ARCHITECTURES FOR AUTOMATIC SENSING OF VINE VIGOR
Verónica Sáiz Rubio
 Veronica Saiz Rubio, Francisco Rovira Más
- 17:30 C-1915 EARLY ESTIMATION OF VINEYARD YIELD: SITE SPECIFIC COUNTING OF BERRIES BY USING A SMARTPHONE
 Gilbert Grenier
 Mathieu Grossêtéte, Yann Berthoumieu, Jean Pierre Da costa, Christian Germain, Olivier Lavialle, Gilbert Grenier
- 17:45 C-0518 GRASP AFFORDANCE FOR ROBOTIC SELECTIVE HARVESTING BASED ON HUMAN DEMONSTRATIONS
 Maayan Yaacobovich
 Maayan Yaacobovich, Danny Eizicovits, Sigal Berman

264 SESSION

16:55-18:30
(SPC06): WSN IN ENVIRONMENTAL MONITORING II
 Moderator: Thomas Toftegaard
 Location: ROOM 5

- 16:55 Introduction

- 17:00 C-1700 SPECTRAL PREDICTION OF APPLE QUALITY FOR TWO DANISH CULTIVARS
Mabel Virginia Martinez Vega
 Mabel Virginia Martinez Vega; Dvoralai Wulfsohn; Torben Toldam-andersen

- 17:15 C-1999 KEY TECHNOLOGICAL FACTORS FOR SUCCESSFUL RFID SYSTEM APPLICATION IN FOOD SUPPLY CHAIN MANAGEMENT
Cristina Tortia
 Cristina Tortia, Paolo Gay, Paolo Barge, Valentina Merlini, Sara Serale, Claudio Gandini

- 17:30 C-2121 POSSIBILITY AND EFFECTIVENESS OF WEB-BASED SENSOR NETWORK SYSTEM TO PERFORM AGRICULTURAL APPLICATIONS USING IMAGE DATA
Tokihiro Fukatsu
 Tokihiro Fukatsu, Masayuki Hirafuji, Takuji Kiura

- 17:45 C-0350 DEVELOPMENT OF LOW COST PHOTOVOLTAIC SENSOR FOR OVER-TREE RADIATION ASSESSMENT
Miguel Angel Muñoz-García
 Miguel Angel Muñoz-garcía, Angela Melado, Pilar Barreiro Elorza, José-lorenzo Balenzategui

- 18:00 C1452 CHILDREN AS FIELD SENSORS - A TRIAL IN VIETNAM
Seishi Ninomiya
 Seishi Ninomiya, Yumi Mori, Toshiya Takasaki, Tranthin Hoa, Y. Okano, Takaharu Kameoka, S. Togami; A. Takezaki, R Ikeda, R. Ishida

- 18:15 Round table V (Vahid Tarokh, Pilar Barreiro, Esmaeil Nadimi, Victoria Blanes Vidal, Thomas Toftegaard)

265 SESSION

16:55-18:30
(RD):ECONOMIC ASPECTS
 Moderator: María Jesús Montero
 Location: ROOM 6+7

- 16:55 Introduction
- 17:00 C-1701 INNOVATION AND EMPLOYMENT: THE CASE OF COFFEE PRODUCTION IN BRAZIL
Marco Ospina Patino
 Marco Ospina Patino, Milla Reis de Alcantara, Geraldo Tavares do Nascimento, Marina Falascina
- 17:15 C-0307 ROLE OF PUBLIC-PRIVATE PARTNERSHIPS BY MARKETING OF MOUNTAIN FOOD PRODUCTS
Andreja Borec
 Jernej Prisenk, Andreja Borec, Karmen Pazek

17:30	C-1705	ANALYSIS AND FORECASTING OF SOYBEAN STORAGE NEEDS IN BRAZIL Marco Ospina Patino Marco Ospina Patino, Marina Falascina, Geraldo Tavares do Nascimento, Milla Reis de Alcantara	17:00	C-0919	DETECTION AND QUANTIFICATION OF FUSARIUM-SPECIFIC DISEASE SYMPTOMS IN MAIZE EARS BY SPECTRAL IMAGING Martin Kraft Martin Kraft, Elisabeth Oldenburg
17:45	C-0048	A STUDY OF THE LIVING CONDITIONS OF FARMERS IN IRAN, IMMIGRATION MOTIVES AND AGRICULTURAL METHODS FOR RURAL DEVELOPMENT IN IRAN Seyed Abbas Mirjalili Seyed Abbas Mirjalili, Elahe Poorazizi	17:15	C-1123	NON-DESTRUCTIVE TEXTURE ANALYSIS OF FARMED SALMON USING HYPERSPECTRAL IMAGING TECHNIQUE Di Wu Di Wu, Hong-Ju He, Da-Wen Sun
18:00	C-0379	DIAGNOSIS OF COLOUR COTTON PRODUCTIVE CHAIN AT PARAIBA STATE, BRAZIL Kever Bruno Paradelo Gomes Kever Bruno Paradelo Gomes, Gabriel Henrique Horta De Oliveira, Andreia Maria da Fonseca Boechat	17:30	C-1198	DEVELOPMENT OF NON-DESTRUCTIVE EVALUATION TECHNIQUE FOR SEED VIABILITY BY USING HYPERSPECTRAL IMAGING TECHNIQUE Ahn chi-kook Chi-Kook Ahn, Byoung-Kwan Cho, Jum-Soo Kang

266 SESSION

16:55-18:30
(ES): EVALUATION OF WORK ENVIRONMENT
Moderator: Eugenio Cavallo
Location: MULTIPURPOSE IB

16:55		Introduction
17:00	C-0593	QUALITY AND SECURITY WORK ENVIRONMENT. RISK EVALUATION OF A FEEDLOT FARM Antonio Monteiro Cardoso Andreia Graça, Ana Vieira, Paula Correia, Antonio Monteiro Cardoso
17:15	C-0791	ANALYSIS OF UV EXPOSURE FOR FARMERS: FIRST EXPERIMENTAL RESULTS Giorgia Nardini Giorgia Nardini, Massimo Paroncini, Daniela Candido, Massimiliano Della Pasqua
17:30	C-1683	ERGONOMIC EVALUATION OF LOGGING MACHINE OPERATION Roberto Abrahão Funes Roberto Funes Abrahão, Almeida Simone Formigone, Tereso Mauro José Andrade
17:45	C-2081	PEST RISK PERCEPTION ASSESSMENT OF VINEYARD WORKERS Boissonnot Romain Boissonnot Romain, Grimbuhler Soni

267 SESSION

16:55-18:30
(SPC03): HYPERSPECTRAL IMAGING II
Moderator: Victor Alchanatis
Location: ROOM 8+9

16:55		Introduction
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WEDNESDAY, JULY 11

8:00-9:00 Geoffrey C. MREMA. Keynote Speaker General Session AUDITORIO1

301 SESSION

08:55 -10:30
(PM): FIELD PERFORMANCE
Moderator: Emilio Gil
Location: AUDITORIO 1

- 8:55 Introduction
- 9:00 C-1704 PERFORMANCE CHARACTERISTICS OF A GASOLINE GENERATOR ENGINE USING E10 AND E20 MIXING RATIOS FOR ETHANOL GASOLINE FUEL
Babajide Adelekan
Babajide Adelekan
- 9:15 C-1768 ENERGY CONSUMPTION OF AGRICULTURAL TRANSPORTS AND INFLUENCING FACTORS
Heinz Bernhardt
Heinz Bernhardt, Götz Sebastian, Valentin Heizinger, Nina Zimmermann, Dirk Engelhardt
- 9:30 C-1767 IMPROVEMENT OF ORGANIC SPREADER DESIGN: THE USE OF SPREAD PATTERNS MODELLING
Jean-Christophe Roux
Jean-Christophe Roux, Didier Varion, Denis Miclet, Piron Emmanuel
- 9:45 C-0278 MECHANICAL CONTROL OF PURPLE NUTSEDGE (CYPERUS ROTUNDUS)
Boaz Zion; Aharon Weissblum; Nachshon Shamir; Evgeni Smirnov;
Gui Achdary; Joseph Hershenhorn

302 SESSION

08:55 -10:30
(SW-SPC01): SOIL ATTER RELATIONSHIPS
Moderator: Samuel Ortega Farias
Location: AUDITORIO 2

- 8:55 Introduction
- 9:00 C-0646 FEASIBILITY STUDY ON COMBINING FREQUENCY DOMAIN REFLECTOMETRY AND VISIBLE AND NEAR INFRARED SPECTROSCOPY FOR MEASUREMENT OF SOIL COMPACTION
Abdul Mouinem Mouazen
Raed A. Al-Asadi, Abdul Mouinem Mouazen
- 9:15 C-0760 REGRESSION ANALYSES AND AMELIORATION PROCEDURES FOR SUSPENDED SEDIMENT LOAD ESTIMATION IN AGRICULTURAL RIVERS
Edward Lapong
Edward Lapong, Masayuki Fujihara, Tomoki Izumi, Kunihiko Hamagami, Noriyuki Kobayashi, Toshiko Kakihara
- 9:30 C-0349 EXPANDING CALIBRATION OF AN ON-LINE MEASUREMENT SYSTEM OF TOPSOIL COMPACTION TO CLAY SOILS.
Mohammed Zakauallah Quraishi
Mohammed Zakauallah Quraishi, Kim Blackburn, Abdul Mouinem Mouazen
- 9:45 C-2335 THE ROLE OF BIOENGINEERING TECHNOLOGIES FOR SOIL AND WATER CONSERVATION
Jose Luis Rubio
Jose Luis Rubio; Vicente Andreu

303 SESSION

08:55 -10:30
(AP): AQUACULTURE PRODUCTION SYSTEMS
Moderator: Morris Villarroel
Location: AUDITORIO 3A

- 8:55 Introduction
- 9:00 C-0229 SENSORS FOR PREDICTING CAVIAR MATURITY IN FARMED STURGEON
Michael Delwiche
Michael Delwiche, Serge Doroshov, Peter Struffenegger, Joel Van Eenennaam
- 9:15 C-0664 FARMED FISH PRODUCTION COST IN RELATION TO THEIR NEUROENDOCRINOLOGICAL FUNCTIONS: A REVIEW
Sofronios Papoutsoglou
Sofronios Papoutsoglou
- 9:30 C-1953 HOW DOES FASTING BEFORE LAUGHTER AFFECT TROUT (ONCORHYNCHUS MYKISS) WELFARE?
Morris Villarroel Robinson
Morris Villarroel Robinson, Javier López Luna, Fernando Torrent Bravo, Lucena Vásquez

304 SESSION

08:55 -10:30
(AP): MANURE MANAGEMENT SYSTEMS I
 Moderator: Yanhui Zhang
 Location: AUDITORIO 3B

8:55		Introduction
9:00	C-1225	ENVIRONMENTAL CHALLENGES IN MANURE MANAGEMENT Vladimir Popov Vladimir Popov, Dmitry Maximov, Alexander Bryukhanov
9:15	C-1222	EMISSIONS FROM PIG UNITS - EFFECTS OF THE AGE OF SLURRY Kristoffer E.N. Jonassen Kristoffer E.N. Jonassen
9:30	C-2277	EXPERIMENTAL EVALUATION OF MANURE EVAPORATION IN THE PADDOCK FOR A MANAGEMENT ALGORITHM DEVELOPMENT Lorenzo Boccia Stefania Pindozzi, Salvatore Faugno, Collins Okello, Lorenzo Boccia
9:45	C-1172	STORAGE OF SLURRY IN EARTH-BANKED LINED BASINS IN FINLAND Maarit Hellstedt Maarit Hellstedt; Teemu Ala-kleme
10:00	C-1694	INTEGRATING ENVIRONMENT-ENHANCING ENERGY INTO LIVESTOCK PRODUCTION SYSTEM Yanhui Zhang Yanhui Zhang, Lance Schideman, Guo Yu, Yan Zhou
10:15	C-0557	IMPROVING THE AGRO-ENVIRONMENTAL VALUE OF CATTLE STRAW MANURE Ghulam Abbas Shah Ghulam Abbas Shah, Peter W. G. Groot Koerkamp, Jeroen C.J. Groot, Egbert A. Lantinga

305 SESSION

08:55 -10:30
(EN): SOLID BIOMASS
 Moderator: Joy Agnew
 Location: MULTIPURPOSE IA

8:55		Introduction
9:00	C-0367	BIOMASS-BASED SYSTEM DESIGN FOR HEATING AND CO ₂ STORAGE Jorge Antonio Sánchez Molina Jorge Antonio Sanchez, Francisco Rodriguez, Jose Luis Guzman, Francisco Gabriel Acien, Juan Carlos López

9:15	C-0399	INFLUENCE OF AIR MASS FLOW AND FEEDING RATE ON COMBUSTION PERFORMANCE OF JATROPHA CURCAS SEED SHELLS AND PRESS CAKE IN TILTING FURNACE WITH BOWL BURNER Shkelqim Karaj Shkelqim Karaj, Phillip Schneider, Joachim Müller
9:30	C-0471	EFFECT OF PLANTING DENSITY ON THE MECHANICAL PROPERTIES OF SUNFLOWER STEM Ryota Murai Ryota Murai, Haruka Tsuchiya, Seishu Tojo, Tadashi Chosa, Hitoshi Kato
9:45	C-1646	COMBUSTION OF AGRICULTURAL BIOMASSES: MASS BALANCE OF PRINCIPAL ELEMENTS Stephane Godbout Stephane Godbout, Joahnn H. Palacios, Patrick Brassard, Jean-Pierre Larouche, Frederic Pelletier, Stephane P. Lemay, Denis Bussières, Matthieu Girard

306 SESSION

08:55 -10:30
(IT): QUALITY PRODUCTION I
 Moderator: Gilber Grenier
 Location: MULTIPURPOSE IC

8:55		Introduction
9:00	C-0324	BENEFITS OF CONTROLLED TRAFFIC FARMING IN EUROPE Thomas Anken Martin Holpp, Thomas Anken, Monika Sauter, Jan Rek, Rene Reiser, Hans-Rudolf Oberholzer, Peter Weisskopf, Oliver Hensel
9:15	C-0910	ICT FOR TRACEABILITY OF SUGAR CANE HARVESTING OPERATION IN SMALL FARMS Jean-Pierre Chanet Dany Deurveilher, Frédéric Chiroleu, Myriam Chanet, Jean-Pierre Chanet, Daniel Boffety
9:30	C-0937	EFFECTS OF DIFFERENT SOIL MANAGEMENT PRACTICES ON SOIL MECHANIC RESISTANCE AND SEED DEPTH PLACEMENT IN A MAIZE CROP IN ALENTEJO, PORTUGAL MEDITERRANEAN REGION Luis Conceição Alcino Luis Conceição Alcino, Pilar Barreiro Elorza, Ricardo Freixial, Susana Dias, Garrido Miguel, Valero Constantino
9:45	C-0266	USING LEAF NUTRIENTS TO MODEL SUGAR CANE QUALITY PARAMETERS Francelino Rodrigues Jr. Francelino A. Rodrigues Jr., Paulo S. Graziano Magalhães, Henrique C. J. Franco, Domingos G. P. Cerri

- 10:00 C-1000 PRELIMINARY STUDIES ON SPATIALLY VARIABLE NITROGEN APPLICATION FOR FORAGE MAIZE IN COMMERCIAL FIELDS IN THE UK
Evandro Mantovani Chartuni
 Evandro Chartuni Mantovani, Evandro Chartuni Mantovani, Paula A. Misiewicz, David R. White, Richard John Godwin

307 SESSION

08:55 -10:30
(PF): PACKAGING THECHNIQUES I
 Moderator: Umezuruuke Linus Opara
 Location: ROOM 1

- 8:55 Introduction
- 9:00 C-0771 EFFECTS OF NANO COMPOSITE COATING ON THE LEMON QUALITY
Jafar Hashemi
 Jafar Hashemi, Ebrahim Taghinezhad, Jafar Hashemi
- 9:15 C-0781 MODIFIED ATMOSPHERE PACKAGING TO EXTEND COLD STORAGE OF POMEGRANATE CV. 'MOLLAR DE ELCHE'
Maria B. Perez Gago
 Atef Ibn Laribi, Lluís Palou Valls, Verónica Taberner, Maria B. Pérez-Gago
- 9:30 C-1967 HERMETIC STORAGE OF ARTIFICIALLY DRIED COCOA BEANS IN HOT-SEALED PLASTIC BAGS
Dennis Oke
 Dennis Oke, Kayode Foluso Omotayo
- 9:45 C-2314 STUDY ON THE EFFECT OF ACTIVE PACKAGING ON PASSION FRUIT POSTHARVEST QUALITY
Phonkrit Maniwara
 Phonkrit Maniwara, Kazuhiro Nakano, Danai Boonyakiat, Pichaya B. Poonlarp, Juggapong Natwichai, Shintaroh Ohashi
- 10:00 C-1632 NOVEL PLA EMAP SYSTEM FOR CHERRY TOMATOES AND PEACHES ABLE TO REGULATE THE TARGETED IN-PACKAGE ATMOSPHERE - PART I: ANALYTICAL MODEL
Antonis Mistriotis
 Antonis Mistriotis, Demetres Briassoulis

308 SESSION

08:55 -10:30
(PF): DRYING TECHNOLOGY I
 Moderator: Carolina María Sánchez Sáenz
 Location: ROOM 6+7

- 8:55 Introduction
- 9:00 C-1493 EFFECT OF ETHYL OLEATE PRE-TREATMENT AND PACKAGING ON RHEOLOGICAL AND SENSORY PROPERTIES OF STORED DRIED MULBERRY
Mehdi Ghiafeh Davoodi
 Mehdi Ghiafeh Davoodi, Shohreh Nikkhah

- 9:15 C-1094 CHARACTERIZATION OF EDIBLE FILMS OF ZEIN AND CHITOSAN ADDED WITH OILS USING NANOTECHNOLOGY TECHNIQUES.

Monserrat Escamilla-García
 Monserrat Escamilla-García, Georgina Calderón Domínguez, Reynold Ramón Farrera-rebollo, José Jorge Chanona Pérez, Juan Vicente Méndez-Méndez, Adrián Martínez-Rivas

- 9:30 C-1973 FUNCTIONAL EFFECTS OF DIFFERENT HUMECTANTS ON DOUGH RHEOLOGY AND BARBARI FLAT BREAD QUALITY
Bahareh Sahraiyan
 Fariba Naghipoor, Bahareh Sahraiyan, Mahdi Karimi, Mohammad Bagher Habibi Najafi, Mohammad Hossein Haddad Khodaparast, Zahra Sheikholeslami

- 9:45 C-1116 STEROID OF SANDFISH POWDER (HOLOTHURIA SCRABA) AS HORMONE REPLACEMENT THERAPY ON MENO-PAUSE
Etti Riani
 Etti Riani, Nastiti Kusumorini, Syarifah Nurjanah, Muhammad Reza Cordova

- 10:00 C-1086 CHARACTERIZATION OF CARBOHYDRATE-PROTEIN EDIBLE FILMS USING MICRO AND NANO TECHNOLOGY TECHNIQUES
Georgina Calderón-Domínguez
 Monserrat Escamilla-García, Reynold Ramón Farrera-rebollo, Adrián Martínez-Rivas, Georgina Calderón Domínguez

309 SESSION

08:55 -10:30
AET: WORKSHOP
 Location: ROOM 2

- 8:55 AET: WORKSHOP

310 SESSION

08:55 -10:30
(SE): ENVIROMENT IN CROP PRODUCTION
 Moderator: Fatima Baptista
 Location: ROOM 3

- 8:55 Introduction
- 9:00 C-0603 ROOT TEMPERATURE INFLUENCES GROWTH OF BLUEBERRY STEMS
Rei Kikuchi
 Rei Kikuchi, Tadashi Chosa, Seishu Tojo

9:15	C-1378	A CLIMATE CONTROL STRATEGY FOR NATURALLY VENTILATED GREENHOUSE WITH VARIABLE HIGH PRESSURE FOGGING: EVALUATING ENERGY AND WATER SAVINGS, CLIMATE UNIFORMITY Murat Kacira Federico Villarreal-Guerrero, Murat Kacira, Efren Fitz-Rodriguez, Gene Giacomelli, Chieri Kubota
9:30	C-1816	MATHEMATICAL SIMULATION OF THE DEHUMIDIFIER OF SEAWATER GREENHOUSE Abdulrahim Al-Ismaili Abdulrahim Al-Ismaili, Edward Keith Weatherhead, Hemantha P W Jayasuriya
9:45	C-0575	INFLUENCE ON VINE PRODUCTION OF INNOVATIVE COVERING PLASTIC FILMS Evelia Schettini Giuliano Vox, Evelia Schettini, Giacomo Scarascia Mugnozza, Laura De Palma, Luigi Tarricone, Giovanni Gentileesco

08:55 -10:30
(SPC04): GNSS, SENSORS AND OFF-ROAD VEHICLE ARCHITECTURES
Moderator: John Schueler
Location: ROOM 4

8:55		Introduction
9:00	C-0194	GPS-BASED INTRA-ROW WEED CONTROL SYSTEM: PERFORMANCE AND LABOR SAVINGS David Slaughter David C. Slaughter, Manuel Pérez Ruiz, Fadi Fathallah, Shrin Upadhyaya, Chris Gliever, Brandon Miller
9:15	C-0105	DEVELOPMENT OF A MODEL BASED APPLICATION CONTROL SYSTEM FOR PESTICIDE SPRAYERS Heike Froeschle Heike Froeschle, Markus Stroebel, Karl-heinz Koeller
9:30	C-0628	THE QUAD-AV PROJECT: MULTI-SENSORY APPROACH FOR OBSTACLE DETECTION IN AGRICULTURAL AUTONOMOUS ROBOTICS Raphaël Rouveure Raphaël Rouveure, Michael Nielsen, Anders Petersen, Giulio Reina, Mario M. Foglia, Rainer Worst, Sami Seyed-Sadri, Morten Rufus Blas, Patrice Faure, Kasper Lykkegaard
9:45	C-0113	THE DEVELOPMENT OF A NEAR-REAL TIME VISION BASED VARIABLE RATE APPLICATOR Chee-Wan Chan Chee-Wan Chan, Arina Mohd Noh, Mohd Zamri Khairi Abdullah, Othman Omar, Kasron Ahmad

10:00	C-1993	FUSION OF CROP DATA FROM A MULTI-SENSOR PLATFORM Christoph Zecha Christoph Zecha, Johanna Link, Wilhelm Claupein
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312 SESSION

08:55 -10:30
(SPC08)
Moderator: Chakib Jenane
Location: ROOM 5

8:55		Introduction
9:00	C-0084	TESTING AND EVALUATION OF FARM MACHINES: AN ESSENTIAL STEP FOR DEVELOPING MECHANIZATION IN AFRICA Chakib Jenane Chakib Jenane
9:15	C-0116	FORMULATION OF A NATIONAL AGRICULTURE MECHANIZATION STRATEGY FOR MOROCCO El Hassane Bourarach El Hassane Bourarach, Si bennasseur Alaoui, Asmaa Hamzaoui, John Ashburner, Josef Kienzle
9:30	C-0145	PERSPECTIVES ON THE ROLE OF MECHANICAL TECHNOLOGIES IN GREEN REVOLUTIONS AND THE ATTAINMENT OF FOOD SECURITY Geoffrey C. Mrema Geoffrey C. Mrema
9:45	C-0393	AGRICULTURAL MECHANIZATION DEVELOPMENT IN INDIA- LESSONS FOR DEVELOPING COUNTRIES Gajendra Singh Gajendra Singh
10:00	C-0573	DEVELOPMENT OF MECHANIZATION OPTIONS FOR SMALLHOLDER FARMERS; EXAMPLES OF LOCAL MANUFACTURING OPPORTUNITIES FOR SUB-SAHARAN AFRICA Brian Sims Brian Sims, Muhammad Akhtar Bhatti, Saidi Mkomwa, Josef Kienzle

313 SESSION

08:55 -10:30
(ES): EVALUATION OF ERGONOMICS
Moderator: Stanley Best
Location: MULTIPURPOSE IB

8:55		Introduction
9:00	C-0982	OPERATOR-MACHINE INTERACTION: ERGONOMIC EVALUATION OF A VINEYARD TELEOPERATED MACHINE Ester Ferrari Ester Ferrari, Eugenio Cavallo

9:15	C-1307	POWER TILLER VIBRATION TRANSMITTED TO HAND AND BODY OF OPERATOR IN TRANSPORTATION MODE ON ASPHALT RURAL ROAD Seyed Reza Hassan-Beygi Seyed Reza Hassan-Beygi, Hossein Ahmadian, Barat Ghobadian	9:45	C-0810	CONTACTLESS EVALUATION OF AIR-BUBBLE STRUCTURE IN BREAD BY LASER SCATTERING IMAGING Mizuki Tsuta Mizuki Tsuta, Kaori Fujita, Mario Shibata, Masatoshi Yoshimura, Mito Kokawa, Junichi Sugiyama
9:30	C-1376	COMPARISON OF POSTURAL DISCOMFORT DURING HOEING OPERATION WITH TWO DIFFERENT MACHINERY COMBINATIONS Ugur Yegul M.Baris Eminoglu, Ugur Yegul, Ramazan Ozturk	10:00	C-1693	INTERNAL CHARACTERISTICS VISUALIZATION OF FRESH AGRICULTURAL PRODUCTS USING TRADITIONAL AND ULTRAFAST LIMITED-ANGLE-TYPE X-RAY COMPUTED TOMOGRAPHY (CT) IMAGING Irwin R. Donis-González Irwin R. Donis-González, Daniel E. Guyer, Frank Barthel, Anthony Pease
9:45	C-1471	ERGONOMIC EXPOSURE ASSESSMENT OF POSTURE AND MUSCLE ACTIVITY AMONG DAIRY PARLOR WORKERS IN LARGE HERD OPERATIONS John Rosecrance John Rosecrance	10:15	C-2001	QUANTITATIVE VISUALIZATION OF THE DISTRIBUTION OF GLUTEN AND STARCH IN MODEL DOUGH WITH FLUORESCENCE FINGERPRINT IMAGING Mito Kokawa Mito Kokawa, Mizuki Tsuta, Junichi Sugiyama, Masatoshi Yoshimura, Kaori Fujita, Mario Shibata, Tetsuya Araki, Hiroshi Nabetani
10:00	C-1505	THE RISK OF CARPAL TUNNEL SYNDROME AMONG MILKING PARLOR WORKERS John Rosecrance John Rosecrance, David Douphrate			
10:15	C-2098	ERGONOMIC ANALYSIS OF PESTICIDE SPRAYING IN VINEYARDS: REDUCING PHYSICAL AND TEMPORAL CONSTRAINTS, A CHALLENGE FOR REDUCING EXPOSURE. Mandy Lambert Mandy Lambert, James Richardson, Sonia Grimbuhier			

314 SESSION

08:55 -10:30
(SPC03): AUTOMATIC INSPECTION I
Moderator: Paolo Menesati
Location: ROOM 8+9

8:55	Introduction
9:00	C-0160 AUTOMATIC CLASSIFICATION OF CELLS AND INTERCELLULAR SPACES OF APPLE TISSUE Piotr Mariusz Pieczywek Piotr Mariusz Pieczywek, Artur Zdunek
9:15	C-0268 VISUAL QUALITY EVALUATION OF MALTING BARLEY WITH USE OF NEURAL IMAGE ANALYSIS Barbara Raba Barbara Raba, Krzysztof Nowakowski, Piotr Boniecki
9:30	C-0329 IMAGE PROCESSING FOR QUALITY EVALUATION OF FROZEN FRUIT SLICES Paolo Gay Lorenzo Comba, Paolo Gay, Davide Ricauda

315 SESSION

10:55-13:00
(PM): HARVESTING
Moderator: Jaime Ortiz-Cañavate
Location: AUDITORIO 1

10:55	Introduction
11:00	C-1972 LOAD DISPLACEMENT IN GRAPE HARVESTERS: DISCRETE ELEMENT ANALYSIS Carlos Gonzalez Montellano Carlos Gonzalez Montellano, Eva M. Baguena Isiegas, Álvaro Ramírez Gómez, Pilar Barreiro Elorza
11:15	C-2271 TABLE OLIVE FRUIT AND TREE SUITABILITY TO MECHANICAL HARVESTING Sergio Castro-García Sergio Castro-García, Gregorio Lorenzo Blanco Roldán, Francisco Jiménez-Jiménez, Rafael Muñoz-Tejada, Jesus Antonio Gil Ribes
11:30	C-0149 SELECTIVE HARVESTING OF FRESH MARKET VALENCIA ORANGES BY MECHANICAL SHAKING Coral Ortiz Sánchez Coral Ortiz, Andrés Cuenca, Bernardo Martín, Antonio Torregrosa Mira
11:45	C-0957 KINEMATIC ANALYSIS OF ELECTRO - PNEUMATIC ONION SORTING SIMULATOR Ramazan Ozturk Ramazan Ozturk, Abdullah Beyaz, Caner Koc, Alí İhsan Acar

12:00	C-1959	STUDY OF THE SOUND INSULATION IMPACT ON COMBINE HARVESTER'S CABIN Chiho Kim Chiho Kim, Hyeontae Kim, Myeonghun Kim, Gyeongyun Baek
12:15	C-0120	WHEN HANDLING ROUND BALES AFTER STRETCH FILM APPLICATION Torsten Hörndahl Torsten Hörndahl, Rolf Spörndly, Rainer Nylund, Per-Anders Algerbo

316 SESSION

10:55-13:00
(SW-SPC01): WATER QUALITY AND IRRIGATION
Moderator: Guanhua Huang
Location: AUDITORIO 2

10:55		Introduction
11:00	C-2293	OUTBREAK OF FOOT-AND-MOUTH DISEASE TRANSPORTED BY YELLOW SAND AND SPREAD BY LOCAL SURFACE WIND FROM MARCH TO JULY 2010 IN MIYAZAKI, JAPAN Taichi Maki
11:15	C-1404	OBTAINING POTASSIUM TRANSPORT PARAMETERS USING STANMOD MODEL Livia da Silva Previtallo Rafaelly S. Santos, Livia da Silva Previtallo, Jarbas Honorio De Miranda
11:30	C-1326	UNBURNED SUGARCANE IRRIGATED WITH TREATED SEWAGE: EFFECTS ON CARBON AND NITROGEN EXPORTATION AND CROP YIELD Alessandra Monteiro de Paula Alessandra Monteiro de Paula, Sandra Furlan Nogueira, Célia Regina Montes, Adolpho José Melfi
11:45	C-0948	LAND USE AND CLIMATE AGGRESSIVENESS (R-USLE) IN THE EVALUATION OF PHOSPHORUS EXPORT FROM NON-POINT SOURCES IN THE LAKE VICO BASIN (CENTRAL ITALY) Fabio Recanatesi Fabio Recanatesi, Maria Nicolina Ripa, Antonio Leone
12:00	C-0999	PREDICTION OF NITRATE CONCENTRATION IN GROUNDWATER USING AN ARTIFICIAL NEURAL NETWORK (ANN) APPROACH Maria Laura Foddis Maria Laura Foddis

10:55-13:00
(AP): SENSORS AND AUTOMATION IN ANIMAL HOUSES
Moderator: Daniel Berckmans
Location: AUDITORIO 3A

11:00	C-0027	THE DEVELOPMENT AND EVALUATION OF A RADIO FREQUENCY IDENTIFICATION(RFID) BASED CATTLE HANDLING SYSTEM Thato Kgaphola Tendai Justin Mutenje, Jeff Smithers, Thato Kgaphola
11:15	C-0621	AUTOMATIC MONITORING OF RUMINATION TIME FOR OESTRUS DETECTION IN DAIRY CATTLE Stefanie Reith Stefanie Reith, Steffen Hoy
11:30	C-0632	COMPARISON OF RUMINATION ACTIVITY RECORDS OF PRESSURE SENSORS AND ACOUSTIC SENSORS Christian Pahl Angelika Haeussermann, Christian Pahl, Katrin Mahlkow-Nerge, Anne Grothmann, Eberhard Hartung
11:45	C-0993	RESEARCH ACTIVITIES USING THE ART-MSR METHOD OF AUTOMATIC MEASUREMENT OF RUMINATION AND FEEDING BEHAVIOR Franz Nydegger Franz Nydegger, Andreas Münger, Hansjörg Frey
12:00	C-0940	A NOVEL MOBILE DEVICE FOR ACCURATE ON-FARM CLAW SCORING IN SOWS Miriam M.J. van Riet Miriam M.J. van Riet, Jürgen Vangyte, Elena Nalon, Frank A.M. Tuytens, Geert P.J. Janssens, Dominiek Maes, Sam Millet,
12:15	C-0867	TOWARDS TWO IDENTIFICATION METHODS FOR BREEDING PIGS: POSSIBILITIES OF A COMBINED EAR TAG Kees Lokhorst Kees Lokhorst, Pieter Hogewerf, Anita Hoofs, Rik Verheijen, Bert Ipema

318 SESSION

10:55-13:00
(AP): MANURE MANAGEMENT SYSTEMS II
Moderator: Henrik Møller
Location: AUDITORIO 3B

10:55		Introduction
11:00	C-0724	THE ANAEROBIC SEQUENCING BATCH REACTOR (ASBR), AN ADVANCED ANAEROBIC DIGESTER FOR DILUTE LIVE SWINE PRODUCTION BYPRODUCTS Douglas Hamilton Douglas Hamilton
11:15	C-1466	ANALYSIS CHARACTERISTIC OF DIGESTED EFFLUENT FROM FOUR LARGE-MEDIUM SCALE BIOGAS DIGESTER Zhiping Zhu Zhiping Zhu, Hongmin Dong, Bin Shang

10:55 Introduction

11:30	C-1577	RAPSEED MEAL IN GROWING-FINISHING PIG DIETS: EFFECTS ON GROWTH PERFORMANCE, DIGESTIBILITY AND METHANE PRODUCTION FROM FECES. Alba Cerisuelo Verónica Moset, Pablo Ferrer, Alberto Torres-Pitarch, María Cambra-López, Eliisa Adell, Mariam Pascual, Paula Serrano, Alba Cerisuelo	11:30	C-0553	THE EFFECTIVENESS OF TWO MINERAL ADDITIVES DURING ANAEROBIC FERMENTATION OF TWO MIXTURES OF ENERGY CROPS Diana Andrade Montealegre Diana Andrade, Florian Ebersteder, Tim Metzner, Andreas Gronauer, Manfred Bischoff, Hauke Heuwinkel
11:45	C-0927	EFFECTS OF ANAEROBICALLY DIGESTED PIG SLURRY ON IN VITRO GROWTH OF CROP PATHOGENIC FUNGI: A LABORATORY STUDY Xiuping Tao Xiuping Tao, Bin Shang, Hongmin Dong, Yongxing Chen, Hongkun Huang	11:45	C-0604	ENERGY SOLUTIONS FOR UNIT PROCESSING MEAT OF CHICKEN WITH THE USE OF BIOGAS Adriano Henrique Ferrarez Adriano Henrique Ferrarez, Delly Oliveira Filho, Adilio Flauzino de Lacerda Filho, José Márcio Costa, Fabrício Segui parisi
12:00	C-1353	MICROBIAL COMMUNITY ANALYSIS ON LIQUID SWINE MANURE FROM FOAMING AND NON-FOAMING DEEP-PITS Laura Pepple Laura Pepple, Richard S. Gates, Ted Funk, Angela Kent	12:00	C-0680	THERMOPHILIC ANAEROBIC DIGESTION OF THE SOLID FRACTION OF ACIDIFIED DAIRY COW MANURE Sutaryo Sutaryo Sutaryo Sutaryo, Alastair James Ward, Henrik Bjarne Møller
12:15	C-0506	FULL SCALE PRODUCTION OF MINERAL CONCENTRATES FROM PIG SLURRY USING REVERSE OSMOSIS Paul Hoeksma Paul Hoeksma, Fridtjof de Buisonjé, André J. A. Aarnink	12:15	C-0835	INFLUENCE OF DIGESTATE RECIRCULATION ON A TWO-PHASE ANAEROBIC DIGESTION OF MAIZE SILAGE Vasilis Dandikas Vasilis Dandikas, Carmen Marín Pérez, Konrad Koch, Michael Lebuhn, Andreas Gronauer
12:30	C-1451	STREAMLINED AMMONIA REMOVAL FROM WASTEWATER USING BIOLOGICAL DEAMMONIFICATION PROCESS Matias Vanotti Matias Vanotti, Jose Martinez, Albert Magri, Ariel Szogi, Takao Fujii	12:30	C-0254	MODEL BASED OPTIMIZATION OF BIO-METHANE PLANTS Piotr Biernacki Piotr Biernacki, Sven Steinigeweg, Axel Borchart, Eike Siefert, Frank Uhlenhut, Ingo Stein

319 SESSION

10:55-13:00
(EN): GASEOUS BIOFUELS III
Moderator: Marcio Arêdes Martins
Location: MULTIPURPOSE IA

10:55		Introduction
11:00	C-0327	QUANTIFICATION OF METHANE PRODUCTION AND EMISSION FROM ANAEROBIC DIGESTION OF CATTLE MANURE DERIVED FROM DIFFERENT FEEDING Henrik Bjarne Møller Henrik Bjarne Møller, Shiplu Sarker, Anne Louise Frydendahl Hellwing, Martin Riis Weisbjerg, Alastair James Ward
11:15	C-0510	NEAR INFRARED SPECTROSCOPY CALIBRATIONS FOR THE ESTIMATION OF PROCESS PARAMETERS OF ANAEROBIC DIGESTION OF ENERGY CROPS AND LIVESTOCK RESIDUES Christian Krapf Christian Krapf, Andreas Gronauer, Urs Schmidhalter, Hauke Heuwinkel

320 SESSION

10:55-13:00
(IT): IRRIGATION CONTROL
Moderator: Fero Zazueta
Location: MULTIPURPOSE IC

10:55		Introduction
11:00	C-0352	WIRELESS SENSOR NETWORK FOR PRECISION IRRIGATION CONTROL IN HORTICULTURAL CROPS Michael Delwiche Robert Coates, Michael Delwiche, Alan Broad, Mark Holler, Richard Evans, Lorence Oki, Linda Dodge,
11:15	C-0766	DEVELOPMENT OF A FULLY CONTROLLED PLANT FACTORY FOR MOSS MAT PRODUCTION - APPLICATION OF INTELLIGENT IRRIGATION SYSTEM, ROBOT TRANSPORTER, AND PRECISION ARTIFICIAL LIGHTING SYSTEM Yusuf Hendrawan Yusuf Hendrawan, Bambang Dwi Argo, M. Bagus Hermanto, Song Zhang, Haruhiko Murase

11:30	C-2365	METHODOLOGY TO ASSESS THE MAXIMUM IRRIGATION RATES AT REGIONAL SCALE USING GEOSTATISTICS AND GIS Jose Miguel de Paz Becares J.M De Paz, C Albert, F Visconti, G Jiménez, F Ingelmo, M.J. Molina, Juan Sanchez,	10:55	Introduction
11:45	C-0569	EXPERIMENTAL VALIDATION OF A SYSTEM BASED ON PARTICLE TRACKING VELOCIMETRY (PTV) Pablo González-Altozano Federico Ibáñez, Pablo González-Altozano, Maria Gasque, Pau Martí	11:00	OPTIMUM DRYING CONDITION FOR THREE SELECTED VARIETIES OF OSMOTICALLY PRE-TREATED TOMATO (<i>LYCOPERSICUM ESCULENTUM</i>) IN THE SOUTH-WESTERN NIGERIA Kehinde Folake Jaiyeoba Kehinde Folake Jaiyeoba -, Abdulganiy Raji O
12:00	C-0707	AUTOMATIC SYSTEM FOR MANAGEMENT OF IRRIGATION WITH USING IRRIGÂMETRO MICROCONTROLLERS Paulo Raimundo Pinto Paulo Raimundo Pinto	11:15	INFLUENCE OF AIR VELOCITY ON DRYING KINETICS AND PRODUCT QUALITY IN DRYING OF APPLES Barbara Sturm Barbara Sturm, Anna Nunez-Vega, Werner Hofacker, Oliver Hensel
12:15	C-1227	DIFFERENT WATER HEIGHTS INFLUENCE SUBSTRATE SOIL MOISTURE IN SUBIRRIGATION Rhuanito Soranz Ferrarezi Rhuanito Soranz Ferrarezi, Marc W. van Iersel, Roberto Testezaflaf	11:30	EFFECT OF HIGH TEMPERATURE AND SHORT TIME PRE- TREATMENTS ON DRYING AND REHYDRATION OF CARROTS SLICES Carolina María Sánchez Sáenz Carolina María Sánchez Sáenz, Rafael Augustus de Oliveira, Kil Jin Park
12:30	C-2203	USE OF CONTACT MODELS AND VALUE OF PARAMETER IDENTIFICATIONS FOR THE FREE FLOW OF RAPE SEEDS Piotr Frankowski Piotr Frankowski	11:45	EFFECTS OF TEMPERATURE AND MOISTURE ADDITION ON THE MASS TRANSFER KINETICS AND EFFECTIVE DIFFUSIVITIES DURING COCOA ROASTING Ching Lik Hii Ching Lik Hii, Yousra Ahmed Baghdadi

321 SESSION

10:55-13:00
(PF): PHYSICAL PROPERTIES I
Moderator: Pilar Barreiro
Location: ROOM 1

10:55		Introduction
11:00	C-1247	DETERMINING THE CUTTING PROPERTIES OF AGRICULTURAL PRODUCTS Andrej Batos Andrej Batos, Andreas Jahr, Alex Pillmann, Sascha Hoppe, Dennis Diett
11:15	C-1357	NONLINEAR VISCOELASTIC PROPERTIES OF APPLE TISSUE FROM EXPERIMENTAL MEASUREMENT AND CONSTITUTIVE MODELING Wondwosen Abebe Aregawi Wondwosen Abebe Aregawi, Thijs Defraeye, Pieter Verboven, Guido De Roeck, Bart Nicolai
11:30		PH03. POSTHARVEST TECHNOLOGY, Working Group
		12:30 C-1759 AN AUTOMATED SYSTEM FOR THE DETERMINATION OF MOISTURE SORPTION ISOTHERMS Dimitrios Argyropoulos Dimitrios Argyropoulos, Joachim Müller
		12:45 C-1612 MEDIUM SCALE DIRECT MODE NATURAL CONVECTION SOLAR TOMATO DRYER FOR NIGERIAN FARMERS Akachukwu Eke Ben Akachukwu Eke Ben, Akinede Folarin Alonge

322 SESSION

10:55-13:00
(PF): DRYING TECHNOLOGY II
Moderator: Barbara Sturm
Location: ROOM 6+7

323 SESSION

10:55-13:00
AET: WORKSHOP
Location: ROOM 2

10:55

AET: WORKSHOP

324 SESSION

10:55-13:00
(SE): WASTE ENGINEERING
Moderator: Demetres Briassoulis
Location: ROOM 3

10:55

Introduction

11:00 C-0296

DESIGN PRINCIPLES OF A EUROPEAN SYSTEM FOR THE MANAGEMENT OF AGROCHEMICALS PLASTIC PACKAGING WASTE
Demetres Briassoulis
Demetres Briassoulis, Miltiades Hiskakis, Chris Briassoulis

11:15 C-0023

CHALLENGES OF CLIMATE CHANGE ON AGRICULTURAL PRODUCTIVITY IN SUB-SAHARAN AFRICA
Mohammed Abubakar
Mohammed Abubakar

11:30 C-1207

RECYCLING OF CERAMIC FRACTION OF CONSTRUCTION AND DEMOLITION WASTE AS COARSE AGGREGATE FOR RECYCLED CONCRETE PRODUCTION.
Desirée Rodríguez Robles
Desirée Rodríguez Robles, Julia García González, Andrés Juan Valdés, Julia María Morán Del Pozo, Manuel Ignacio Guerra Romero

11:45 C-1121

ECO-FRIENDLY GALLON DESIGN
Tegar Hasty Prabawa
Tegar Hasty Prabawa

325 SESSION

10:55-13:00
(SPC04): ROBOTIC SOLUTIONS FOR AGRICULTURE
Moderator: John F. Reid
Location: ROOM 4

10:55

Introduction

11:00 C-0778

MOTION CONTROL OF A HETEROGENEOUS FLEET OF MOBILE ROBOTS: FORMATION CONTROL FOR ACHIEVING AGRICULTURE TASK
Roland Lenain

Pierre Cartade, Roland Lenain, Benoit Thuilot, Bernard Benet, Michel Berducat

11:15 C-1208

FROBOMIND, PROPOSING A CONCEPTUAL ARCHITECTURE FOR FIELD ROBOTS
Kjeld Jensen
Kjeld Jensen, Soren H. Nielsen, Anders Bogild, Morten Larsen, Ole Green, Rasmus Nyholm Jorgensen

11:30 C-0075

THE DESIGN AND APPLICATION STUDY ON KEY ASSEMBLY OF SIOLORATOR
Manquan Zhao
Manquan Zhao

11:45

C-1113

STRATOS: OPEN SYSTEM FOR TRACTOR AUTONOMOUS OPERATIONS
Cesare Fantuzzi
Cesare Fantuzzi, P.O. Gutman, I. Kaitovic, L. Larcher, S. Marzani, M. Ruggeri, V. Zagurskis,

12:00

C-0789

PRESERVATION OF STABILITY OF AUTOMATED OFF-ROAD ROBOTS: APPLICATION TO ADAPTIVE AND PREDICTIVE SPEED MANAGEMENT
Roland Lenain

Mathieu Richier, Roland Lenain, Benoit Thuilot, Christophe Debain

12:15

C-0964

OBJECT LOCALIZATION ON AGRICULTURAL AREAS USING AN AUTONOMOUS TEAM OF COOPERATING GROUND AND AIR ROBOTS
Lars Kuhnert

Lars Kuhnert, Klaus Müller, Markus Ax, Klaus-Dieter Kuhnert

12:30

C-2283

CRAWLER-TYPE ROBOT TRACTOR USING MULTI-GNSS WITH QZSS
Noboru Noguchi
Ryosuke Takai, Noboru Noguchi

326 SESSION

10:55-13:00
SPC-08
Moderator: Josef Kienzle
Location: ROOM 5

10:55

C-0574

HEIGHTENED IMPACTS OF AGRICULTURAL ENGINEERING IN RAISING THE PRODUCTIVITY OF NIGERIAN AGRICULTURE.
Babajide Adelekan
Babajide Adelekan

11:00

C-1782

AGRICULTURAL MECHANIZATION INTERVENTIONS TO INCREASE THE PRODUCTIVITY OF SMALLHOLDER IRRIGATION SCHEMES IN ZIMBABWE
Thubelihle Thebe
Thubelihle Thebe, Tirivangani Koza

11:15

C-0962

EFFECT OF GIBBERELLIC ACID (GA3) ON THE PHYSICAL AND MECHANICAL PROPERTIES FOR SOME POTATO VARIETIES
Mohamed Ibrahim Mahmoud
Mohamed Ibrahim Mahmoud, Mostafa Abdelazeem

11:30

C-1719

RICE MECHANIZATION IN SUB-SAHARAN AFRICA BY PROMOTING BETTER ENABLING ENVIRONMENTS THROUGH PRIVATE-PUBLIC-PARTNERSHIP
Kunihiro Tokida

Kunihiro Tokida, Joseph Rickman, Hiroshi Hiraoka, Kazuyuki Fujiwara

11:45

C-1571

POSTHARVEST LOSSES OF HORTICULTURAL PRODUCTS IN LATIN AMERICA AND THE CARIBBEAN: INTEGRATING ANALYSES WITH SOLUTIONS
Jorge M Fonseca
Jorge M Fonseca, Divine N Njie

327 SESSION

10:55-13:00
(ES): INNOVATION IN WORK SCIENCE
Moderator: Hannu E.S. Haapala
Location: MULTIPURPOSE IB

10:55	Introduction
11:00 C-0094	THE POTENTIAL OF USER-CENTERED DESIGN TO MAKE RADICAL AGRICULTURAL INNOVATIONS Hannu Haapala Hannu Haapala
11:15 C-0524	INNOVATIVE TECHNOLOGY IN ORGANIC HORTICULTURE Mauro José Andrade Tereso Mauro José Andrade Tereso, Roberto Funes Abrahão, Sandra Francisca Bezerra Gemma, Ivan Augusto Vall Ribeiro
11:30 C-0550	STUDY OF A DEVICE FOR REDUCING THE DUST CONCENTRATION DURING MECHANIZED HARVESTING OF HAZELNUTS Massimo Cecchini Massimo Cecchini, Danilo Monarca, Andrea Colantonio, Fulvio Cavariani, Lore-dana Bedini, De Rossi Marcello, Mauro Pagano, Marco Fedrizzi, Mirko Guerrieri
11:45 C-0857	USING A MODELING LANGUAGE FOR A BETTER INTEGRATION OF HUMAN SAFETY AT THE EARLY DESIGN PHASE BASED ON EXPERIENCE FEEDBACK ANALYSIS Ileyla Sadeghi Ileyla Sadeghi, Luc Mathieu, Nicolas Tricot, Iama Al Bassit
12:00 C-1197	WORKING TIME MEASUREMENT BY A REAL-TIME LOCATION SYSTEM - AUTOMATED DETECTION AND AUTOMATIC TIME MEASUREMENT OF A YARD LOADER'S WORK Stefanie Beyer Stefanie Beyer, Bernhard Haidn
12:15 C-2180	EFFECTIVENESS OF INNOVATIVE MATERIALS FOR THE PROTECTION OF DRIVER OF AGRICULTURAL TRACTORS AGAINST FALLING OBJECTS RISK Eugenio Cavallo Eugenio Cavallo, Alessio Facello
12:30 C-1527	DRIFT RISK DIAGNOSIS (DRD) - A DECISION SUPPORT TOOL TO HELP DIAGNOSE AND MITIGATE SPRAY DRIFT FOR FIELD APPLICATIONS IN PRACTICE Grzegorz Doruchowski Grzegorz Doruchowski, Manfred Roettele, Andreas Herbst, Paolo Balsari

328 SESSION

10:55-13:00
(SPC03): AUTOMATIC INSPECTION II
Moderator: Enrique Moltó
Location: ROOM 8+9

10:55	Introduction
11:00 C-1459	OPTICAL FLOW PROFILING METHODS USED FOR VISUALIZATION AND EVALUATION OF FLOW DISTURBANCES IN AGRICULTURAL PNEUMATIC CONVEYANCE SYSTEMS. Tyrone Keep Tyrone Keep, Scott Noble
11:15 C-0704	DEVELOPMENT OF A COMPACT QUALITY SORTING MACHINE FOR CHERRY TOMATOES BASED ON REAL-TIME COLOR IMAGE PROCESSING Byoung-Kwan Cho In-Seok Baek, Byoung-Kwan Cho, Young-Sik Kim
11:30 C-1994	DEVELOPMENT OF POTATO AND CLOD SEPARATING MECHANISM BASE ON MACHINE VISION Ahmad Al-Mallahi Ahmad Al-Mallahi, Takashi Kataoka, Hiroshi Okamoto
11:45 C-2215	IMAGE PROCESSING BASED METHOD FOR CHARACTERIZATION OF THE FAT/MEAT RATIO AND FAT DISTRIBUTION OF PORK AND BEEF SAMPLES Jozsef Felföldi Jozsef Felföldi, Laszlo Baranyai, Ferenc Firtha, László Friedrich, Csaba Balla
12:00 C-2357	AUTOMATIC VISUAL INSPECTION OF CORN KERNELS USING PRINCIPAL COMPONENT ANALYSIS José Miguel Valiente González Paulus Potter, José Miguel Valiente, Gabriela Andreu-García
12:15	CIGR Working Group on Image Analysis for Agricultural Products and Processes

329 SESSION

14:00-14:55
(PM) POSTERS SESSION
Location: POSTERS ROOM

P-0078	INFLUENCING AMPLITUDE AND ACCELERATION OF SHAKEN FRUIT TREES USING TWO UNBALANCED MASSES Zoltán Láng Zoltán Láng, László Csorba
P-0133	EFFECTS OF MECHANIZATION TECHNOLOGY IN SOUTH OF IRAN Syamak Pishbin

P-0154	A HAND-HELD MECHANICAL BLOSSOM AND POST-BLOOM THINNING DEVICE FOR PEACH TREES Bernardo Martin-Gorriz Bernardo Martin-Gorriz, Antonio Torregrosa Mira, Jesus Garcia Brunton, Regino Aragon Pallares	P-1270	MAIZE HYBRIDS FOR SILAGE VS SPEED OF SEEDER Marcelo Boamorte Raveli Marcelo Boamorte Raveli, Carlos Eduardo Angeli Furlani, Rafael Scabello Bertonha, Fábio Alexandre Cavichioli, Carlos Alessandro Chioderoli
P-0289	DETACHMENT OF CITRUS FRUITS WITH A LOW FREQUENCY AND HIGH AMPLITUDE SHAKER Antonio Torregrosa Mira Antonio Torregrosa Mira, Coral Ortiz Sánchez, Andrés Cuenca	P-1284	LOSSES OF MECHANICAL HARVESTING IN MAIZE ACCORDING TO COVER CROP MANAGEMENT Marcelo Boamorte Raveli Marcelo Boamorte Raveli, Rouverson Pereira da Silva, Ariel Muncio Compagnon, Marcelo Tufaile Cassia, Antônio Maurício Loureiro Júnior
P-0465	FIELD PERFORMANCE OF A PNEUMATIC ROW CROP PLANTER WITH ACTIVE TOOTHED COULTER FOR DIRECT PLANTING OF CORN IN WHEAT RESIDUE Mohammad Hossein Raoufat	P-1315	ACCREDITATION OF CRA-ING AGRICULTURAL MACHINERY TEST LABORATORY IN ACCORDANCE WITH EN ISO/IEC 17025:2005 Roberto Faniglulo Roberto Faniglulo, Daniele Pochi, Renato Grilli, Laura Fornaciari, Gennaro Vassalini
P-0468	DESIGN, DEVELOPMENT AND EVALUATION OF A PROTOTYPE CHICKPEA HARVESTER BY USING FEEDER AND CUTTER MECHANISM Saadat Kamgar Saadat Kamgar, Hossein Mostafavand	P-1419	QUALITY SPATIAL VARIABILITY OF ARABICA COFFEE AND ITS RELATIONSHIP WITH BRIX DEGREE AND FRUIT REFLECTANCE Daniel Marcal De Queiroz Samuel de Ássis Silva, Daniel Marcal De Queiroz, Francisco De Assis De Carvalho Pinto, Nerilson Terra Santos
P-0622	COMPARISON OF GRAIN-COMBINE AND PICKER-HUSKER HARVESTING SYSTEM IN SEED CORN HARVESTING OPERATION BASED ON THEIR HARVESTING LOSSES Seyyed Hassan Pishgar-komleh Seyyed Hassan Pishgar-komleh; Alireza Keyhani; Mohammad Reza Mostofisarkari; Ali Jafari	P-1461	ANALYSIS OF COFFEE FRUIT-STEM VIBRATION USING SIMULATION OF FLEXIBLE MULTIBODY SYSTEMS Daniel Queiroz Marcal de Geice Paula Villibor, Daniel Marcal De Queiroz, Fabio Lucio Santos, Joseph Kalil Khoury Junior, Francisco de Assis Carvalho Pinto
P-0631	THE RELATIONSHIP BETWEEN GRAIN-COMBINE TRAVEL AND CYLINDER SPEED IN SEED CORN HARVESTING OPERATION BY APPLYING ARTIFICIAL NEURAL NETWORKS Seyyed Hassan Pishgar-komleh Seyyed Hassan Pishgar-komleh; Alireza Keyhani; Mohammad Reza Mostofisarkari; Ali Jafari	P-1506	DESIGN AND EVALUATION OF MECHANICAL AID HARVESTING TOOLS FOR MANGO FRUITS Youssef Sharobeam Youssef Sharobeam, M Iraqi, S El Khawaga
P-0660	DETERMINATION OF THE USAGE COMBINE HARVESTER: A CASE STUDY FOR ANTALYA REGION Deniz Yilmaz Deniz Yilmaz, Murad Canakci, Ibrahim Akinci	P-1533	SPACIAL VARIABILITY IN PEANUT MECHANIZED HARVESTING Rouverson da Silva Pereira Rouverson da Silva Pereira, Rouverson Pereira da Silva, Rogério de Souza Medeiros, Edvaldo Pereira dos Santos
P-0714	SEED COATING EFFECTS ON PERFORMANCE OF PRECISION VACUUM SEEDER Davut Karayel Davut Karayel, Murad Canakci, Fatih Haciysufoglu, Ibrahim Akinci, Mehmet Topakci	P-1537	AN ANALYSIS OF WORKING QUALITY OF A SUGAR BEET HARVESTER Natalia Mioduszewska Mioduszewska Natalia Mioduszewska, Jacek Przybyl
P-0722	REGULARITY OF DISTRIBUTION OF SUNFLOWERS SEEDS BY PNEUMATIC SEED METERING Airton dos Santos Alonço Airton dos Santos Alonço, Mateus Potrich Bellé, Otávio Dias da Costa Machado, Kátia Maria Cardinal, Fernando Pissetti Rossato, Hendrigo Alberto Torchelsen da Silveira	P-1852	USE OF STEAM AND EXO THERMIC COMPOUNDS FOR WEED SEED-BANK CONTROL IN BANDS (BAND-STEAMING) Marco Fontanelli Andrea Peruzzi, Christian Frasconi, Luisa Martelloni, Marco Fontanelli, Michele Raffaelli

P-1970	CONCEPTION OF A NON-STOP VARIABLE CHAMBER ROUND BALER Mojtaba Ahmadi Mojtaba Ahmadi, Ali Zomorodian, Hamid Sharifi, Erfan Borazjani, Mohammad Loghavi	P-0246	BIOLOGICAL NITROGEN FIXATION IN GENOTYPES OF COWPEA UNDER SALT STRESS INCREASING THE STATE OF PARAÍBA, BRAZIL Ronaldo Nascimento Ronaldo Nascimento, Jailma Ribeiro De Andrade, Francisco Valfisio da Silva Silva, Aryadne Ellen Vilar De Alencar, Daniele Ferreira Melo, José Wilson Da Silva Barbosa
P-2143	INFLUENCE OF SAMPLING AREA IN THE VARIABILITY IN LOSSES AT SOYBEANS MECHANICAL HARVEST Antônio Maurício Loureiro Júnior Rouverson Pereira da Silva, Antônio Maurício Loureiro Júnior, Marcelo Tufaile Cassia, Ariel Muncio Compagnon, Murilo Aparecido Voltarelli	P-0269	SALT STRESS ON THE PHOTOSYNTHETIC PIGMENT CONTENT COWPEA INOCULATED WITH RHIZOBIA Ronaldo Nascimento Ronaldo Nascimento, Jailma Ribeiro De Andrade, Francisco Valfisio da Silva Silva, Aryadne Ellen Vilar De Alencar, Bruna Vieira De Freitas, José Wilson Da Silva Barbosa
P-2193	THE DESIGN OF A SOIL BIN USING CAD SOFTWARE Robert Birch Robert Birch, Travis Ramdath	P-0410	NUTRIENT RETENTION IN WETLAND USING ORNAMENTAL PLANTS Rojane M. Kletecke Rojane M. Kletecke, Michelle Piccoli, Jose Teixeira Filho
P-2235	INFLUENCE OF SPEED OF SEEDING IN THE MAIZE SEEDLINGS EMERGENCE IN SOUTHWEST REGION OF SAO PAULO STATE/BRAZIL Wilson José Oliveira De Souza Wilson José Oliveira De Souza, Elza Alves, Samuel Ferrari, Eduardo Nardini Gomes, César Henrique De Jesus, Tamires Tangerino	P-0415	IMPORTANCE OF THE DRY MASS GENERATED BY SUNFLOWER CULTURE INCORPORATED INTO THE SOIL Rosa Helena Aguiar Rosa Helena Aguiar; Durval Rodrigues De Paula Junior; Artur Batista De Oliveira Rocha
P-2253	DEVELOPMENT AND EVALUATION OF IMPROVED WINGED SUBSOILER AND MAIZE CROP RESPONSE TO SUBSOILING Arun Kumar Arun Kumar; T C Thakur	P-0509	PHYSICAL, CHEMICAL AND MICROBIOLOGICAL EFFECTS OF SUSPENDED SHADE CLOTH COVERS ON STORED WATER FOR IRRIGATION Victoriano Martínez-Alvarez Victoriano Martínez-Alvarez, José F. Maestre-Valero, Emilio Nicolas Nicolas
P-0147	THERMO PHYSICS PROPERTIES OF THE OIL EXTRACTED OF THE GENOTYPES OF CASTOR BEAN Juarez Pedroza Paz Katcilanya Meneses De Almeida, Juarez Paz Pedroza	P-0514	WATER TREATMENT USING POWDER OF MORINGA OLEIFERA SEEDS IN SACHS AS COAGULANT Jose Euclides Paterniani Gabriela Kurokawa Silva, Camila Clementina Arantes, Jose Euclides Paterniani, Ana Moreno de La Fuente
P-0230	APPLICATION OF FUZZY LOGIC AND PID TECHNIQUES IN WATER SALINITY CONTROL Aljughaiman Sulaiman, Abdullah	P-0519	RESEARCH ON METHODS OF GROUND-WATER VULNERABILITY EVALUATION Guanhua Huang Huang Lipeng Yu, Quanzhong Huang, Guanhua Huang
P-0241	DRYING OF DATES IN OMAN USING A SOLAR TUNNEL DRYER Hamid Alhandhali M. M. Handali, Mohammad Ali Basunia	P-0769	EFFECT OF ANISOTROPY IN SOIL PROPERTIES ON CONTAMINANT TRANSPORT IN MULTILAYER SOILS Hojjat Ahmadi Hojjat Ahmadi, Sina Besharat, Vahid Reza Verdinejad
P-0243	AGRICULTURE AND WATER SOURCES PROTECTION ZONES Petra Oppeltová Petra Oppeltová	P-0792	CHARACTERISTICS OF HEAVY METAL CONTENTS IN MARINE SEDIMENT AND PADDY SOIL OF SOUTH KOREA Jaesung Park Jaesung Park, Young-Hwan Son, Sookack Noh, Tae-ho Bong

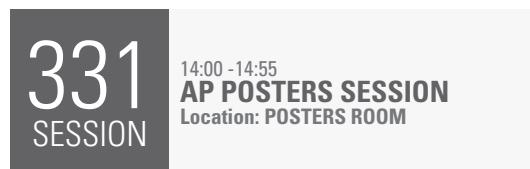
330 SESSION

14:00 - 14:55
**(SW-SPC01): ENVIROWATER,
POSTER SESSION**
 Location: POSTERS ROOM

P-0147	THERMO PHYSICS PROPERTIES OF THE OIL EXTRACTED OF THE GENOTYPES OF CASTOR BEAN Juarez Pedroza Paz Katcilanya Meneses De Almeida, Juarez Paz Pedroza	P-0230	APPLICATION OF FUZZY LOGIC AND PID TECHNIQUES IN WATER SALINITY CONTROL Aljughaiman Sulaiman, Abdullah	P-0241	DRYING OF DATES IN OMAN USING A SOLAR TUNNEL DRYER Hamid Alhandhali M. M. Handali, Mohammad Ali Basunia	P-0243	AGRICULTURE AND WATER SOURCES PROTECTION ZONES Petra Oppeltová Petra Oppeltová	P-0519	RESEARCH ON METHODS OF GROUND-WATER VULNERABILITY EVALUATION Guanhua Huang Huang Lipeng Yu, Quanzhong Huang, Guanhua Huang	P-0769	EFFECT OF ANISOTROPY IN SOIL PROPERTIES ON CONTAMINANT TRANSPORT IN MULTILAYER SOILS Hojjat Ahmadi Hojjat Ahmadi, Sina Besharat, Vahid Reza Verdinejad	P-0792	CHARACTERISTICS OF HEAVY METAL CONTENTS IN MARINE SEDIMENT AND PADDY SOIL OF SOUTH KOREA Jaesung Park Jaesung Park, Young-Hwan Son, Sookack Noh, Tae-ho Bong
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P-0803	EMPHASIZING AWARENESS TO MAKE GOOD QUALITY LIFE BY APPLYING SOME METHODS OF WASTE WATER PROCESSING Ikhsan Bani Bukhori Bani Ikhsan Bani Bukhori Cipto	P-1427	WASTEWATER IRRIGATION IN URBAN GHANA: BALANCING RISKS AND BENEFITS Razak Seidu Razak Seidu, Amina Abubakar, Hans Overgaard, Robert Abaidoo, Arve Heistad, Thor Axel Stenstrom
P-0851	STOCHASTIC MODELLING OF CONTAMINANTS TRANSPORT THROUGH GROUND WATER USING A MOVING LEAST SQUARES RESPONSE SURFACE METHOD WITH HERMITE POLYNOMIAL Tae-ho Bong Tae-ho Bong, Young-Hwan Son, Sookack Noh, Jaesung Park, Seong-Pil Kim, Joon Heo	P-1431	EFFECT OF PRODUCTION SYSTEMS ON WATER QUALITY IN WATERSHEDS Rodrigo Brunini Michele Cláudia Silva, Teresa Cristina Tarlé Pissarra, Rodrigo Brunini
P-0854	CHARACTERISTICS OF VEGETATIONS APPLIED ON VFS (VEGETATED FILTER STRIP) SYSTEMS Kyung-Sook Choi Kyung-Sook Choi, Jeong-Ryeol Jang	P-1462	MODELING OF WATER QUALITY PARAMETERS OF DISSOLVED OXYGEN AND BIOCHEMICAL OXYGEN DEMAND IN THE SUBBASIN OF POXIM RIVER, BRAZIL Anderson Nascimento do Vasco Anderson Nascimento do Vasco, Antenor Oliveira Aguiar Netto, Marinoé Gonzaga da Silva, Aderson Soares De Andrade Júnior, Neylor Alves Calasans Rego
P-0913	RELATIONSHIP BETWEEN COMPACTION, MOISTURE AND PENETRATION RESISTANCE IN HORTICULTURAL SOIL Carlos Gracia López Carlos Gracia, Estela Alemany, Inmaculada Bautista	P-1465	EFFECT OF RICE STRAW MULCH ON RUNOFF AND NPS POLLUTION DISCHARGES FROM A VEGETABLE FIELD Joongdae Choi Joongdae Choi, Min-Hwan Shin, Ji-Seong Yoon
P-1041	SIMULATION OF NITROGEN LEACHING WITH THE DSSAT MODEL UNDER DIFFERENT LEVELS OF NITROGEN AND WATER APPLICATION Maliheh Rabie Maliheh Rabie, Mehdi Gheysari, Seyed Majid Mirlatifi, Gerrit Hoogenboom	P-1519	DESORPTIONS, EXTRACTABLES AND BOUND RESIDUES OF ALACHLOR IN SOIL WITH THE ADDITION OF ORGANIC MATTER FROM SWINE WASTEWATER Silvio Sampaio César Tatiâne Cristina Dal Bosco, Silvio Cesar Sampaio, Silvia Renata Machado Coelho, Natássia Jersak Cosmann, Marcos Hiroiuqui Kunita, Morgana Suszek Gonçalves
P-1070	TREATMENT OF MILKING PARLOR EFFLUENT: STABILIZATION PONDS FOLLOWED BY CONSTRUCTED WETLAND Denis Roston Miguel Denis Roston Miguel, Edu Max da Silva	P-1641	HIDROLOGICAL PROCESS IN DIFFERENTS COVERS OF SOIL Valdemir Antonio Rodrigues Valdemir Antonio Rodrigues, Octávio Barbosa Plaster, Thiago Martins, Caio Vinícius Ferreira Marmontel, Larisse Souza de Cicco, Valdemir Antonio Rodrigues Rodrigues, Valdemir Antonio Rodrigues Rodrigues
P-1155	APPLICATION OF SURFACE COVER AND SOIL AMENDMENT FOR REDUCTION OF SOIL EROSION FROM SLOPING FIELD IN KOREA Suin Lee Soo Suin Lee Soo, Chul-Hee Won, Min-Hwan Shin, Woon Ji Park, Yonghun Choi, Jae-Young Shin, Joongdae Choi	P-1658	PEDOGENIC BACKGROUND CONCENTRATION (PBC) OF POTENTIALLY TOXIC ELEMENTS (PTE) IN SOILS TREATED WITH CIVIL/INDUSTRIAL SEWAGE SLUDGE. Ilaria Cinzia Galiano Ilaria Cinzia Galiano, Gian Franco Capra, Sergio Vacca
P-1196	INDIRECT REUSE OF RECLAIMED WASTEWATER FOR AGRICULTURE IN KOREA Hanseok Jeong Hanseok Jeong, Taeil Jang, Choung Hyun Seong, Seung Woo Park	P-1690	SURVEY DATA AND CHARACTERISTICS OF PRECIPITATION MORPHOMETRIC WATERSHED MODELING WITH THE USE OF SWAT (SOIL AND WATER ASSESSMENT TOOL) Flávia Mazzer Rodrigues Flávia Mazzer Rodrigues, Teresa Cristina Tarlé Pissarra, Michele Claudia da Silva
P-1334	IRRIGATION OF BRACHIARIA BRI-ZANTHA PASTURE WITH WASTEWATER OF CASSAVA INDUSTRY Altair Bertonha Altair Bertonha, Paulo Sérgio Lourenço De Freitas, Daiane De Cinque Mariano		

- P-1868 VARIABILITY OF WATER QUALITY IN A LAKE RECEIVING DRAINAGE WATER FROM HETAO IRRIGATION SYSTEM, IN YELLOW RIVER BASIN, CHINA
Biao Sun
Biao Sun, Changyou Li, Claudia M d S Cordovil, Keli Jia, Sheng Zhang, Amarilis de Varennes, Luis S. Pereira, Paula Paredes,,
- P-1892 FINDING LOCATION FOR NITRATE SOURCES ALONG KITAKAMI RIVER, JAPAN USING THE NATURAL ABUNDANCE OF NITROGEN ISOTOPE
Kosuke Noborio
Kosuke Noborio, Chitoshi Mizota, Koji Harashina, Mitsuomi Orisaka
- P-1897 ANTIBIOTIC RESISTANCE MONITORING IN WATER SUPPLY SYSTEMS
Paula Amador
paula amador pinto, Ruben Fernandes, Isabel Duarte, Luisa Brito, Mário Barreto, Cristina Prudêncio
- P-1964 GIS MAPPING OF SOIL COMPACTION AND MOISTURE DISTRIBUTION FOR TILLAGE AND IRRIGATION MANAGEMENT
Seif Salim Al-Adawi
Seif Salim Al-Adawi, Hemantha P W Jayasuriya
- P-2045 TRANSNATIONAL AND NATIONAL ASPECTS OF THE ECOLOGICAL CATASTROPHE IN ARAL SEA REGION, ITS CAUSES AND SUGGESTIONS
Radek Malis
Radek Malis
- P-2075 MODELING SOIL WATER AND SOLUTE DISTRIBUTION UNDER VARIABLY SATURATED CROP ROOTZONE
Uday Khodke
Uday Khodke, Rabindra Kumar Panda, S. Tripathy
- P-2175 DIMENSIONS AND PERFORMANCE OF THE CYLINDRICAL SPECIMENS USED IN UNIAXIAL CONSOLIDATION TESTS
Reginaldo Da Silva Barboza
Reginaldo Da Silva Barboza, Piero Iori, Pedro Antonio Martins
- P-2329 POSSIBLE IMPACT OF CLIMATE CHANGE ON SOIL EROSION
Ramesh Pall Rudra Ramesh
Pall Rudra Ramesh, Trevor Dickinson, Syed Imran Ahmed, Greg Wall
- P-2344 SIMULATION GEOLOGICAL ENVIRONMENTAL SHORTAGE WATER OF GROUNDWATER AND THE POSSIBILITY OF ACTIVITY EARTHQUAKE JAFARAH BASIN NW LIBYA
Fathi Elosta Abu - Ehia
Elosta Fathi



- P-0231 ECONOMIC AND ECOLOGICAL FACTORS OF USING THE NEW PROTEIN CONCENTRATE IN RED DEER FEEDING
Liga Proskina
Liga Proskina
- P-0404 EFFECT OF VACUUM LEVEL ON MILKING TIMES IN MEDITERRANEAN ITALIAN BUFFALO COW
Lelia Murgia
Maria Caria, Carlo Boselli, Lelia Murgia, Remo Rosati, Antonio Pazzona
- P-0442 ANALYSIS OF THE SURFACE THE STRAW LITTER PROCESSED MICROWAVE
Anatoly Gulyaev
Maksim Moskovskiy, Anatoly Gulyaev, Viktor Pakhomov
- P-0580 RESEARCH ON THE BEHAVIOR AND EGG FERTILIZATION RATE OF NONGDA III DWARF LAYERS AND WHITE LEGHORNS CHICKENS FED IN FLOOR-REARING SYSTEM
Long Liu
Long Liu, Zhonghua Ning
- P-0639 EFFECTS AND EXPENSES OF SPRUCE NEEDLES EXTRACTIVES IN BROILER CHICKEN FEEDING
Sallija Cerina
Sallija Cerina
- P-0653 MEASURING THE EFFECT OF LAMENESS ON FEED INTAKE AND ACTIVITY IN DAIRY COWS
Matti Pastell
Johanna Häggman, Heli Simojoki, Marianna Norring, Petro Tamminen, Matti Pastell
- P-0670 EFFECTS OF CELLULOSE DECOMPOSITION MICROBIAL INOCULUM ON PHYSICOCHEMICAL PROPERTIES OF CATTLE MANURE COMPOST
Shuyuan Ji
Shuyuan Ji, Yujie Lou, Haizhu Zhou, Yanbo Bao
- P-0687 CONJUGATE CULTIVATION TOWARD SUSTAINABLE AGRICULTURE (PRODUCTION OF FISH IN PADDY FIELD FARMS IN THE NORTH OF IRAN)
Nasim Khodakaramian
Nasim Khodakaramian, Shiva Mohammad hoseynzadeh, Mohsen Karimi, Sadaf Ghasemi, Elham Norouzian, Mohammad Ghahderjani

P-0832	THE TRIBOLOGICAL BEHAVIOR OF POULTRY LITTER ON EQUIPMENT WALLS Seyed Reza Hassan-Beygi Seyed Reza Hassan-Beygi, Mohammad Hossein Kianmehr, Iman Valaei, Hadi Rahmazadeh Bahram	P-1435	ACTIVE D3 VITAMIN SUPPLEMENT AND REDUCTION OF CALCIUM AND AVAILABLE PHOSPHORUS FOR BROILERS AT 8 TO 21 DAYS OF AGE Flávio Medeiros Vieites Flávio Vieites Medeiros Flávio Vieites, Christiane Silva Souza, João Garcia Caramori Júnior
P-0863	SELECTING THE MOST SUITABLE ELECTROLYTE BALANCE DIET FOR LACTATING SOWS USING MULTICRITERIAL ANALYSIS Eliene Justino Eliene Justino, Diego Pereira Neves, Douglas D'alessandro Salgado, Irenilza De Alencar Naas	P-1442	CARCASS DRESSING AND NOBLE CUT YIELDS OF MALE BROILERS SUPPLEMENTED WITH 1,25 DIHYDROXICOLECALCIFEROL AND REDUCTION OF CALCIUM AND AVAILABLE PHOSPHOURS IN THE DIETS Flávio Medeiros Vieites Flávio Vieites Medeiros Flávio Vieites, Christiane Silva Souza, Carlos Henrique de Figueiredo Vasconcellos, Cláudio Vieira De Araújo
P-0875	RELATIONSHIP BETWEEN OPERATIONAL PARAMETERS OF MILKING MACHINES AND HYGIENIC QUALITY OF MILK IN 632 GALICIAN DAIRY FARMS. José Pereira Antonio Lenza, José Manuel Pereira	P-1525	DENSITY-PRESSURE RELATIONSHIP IN DENSIFICATION OF SWINE SOLID FRACTION Niccolò Pampuro Niccolò Pampuro, Alessio Facello, Eugenio Cavallo
P-0882	ASSESSMENT OF MILKING MACHINES ON GALICIAN DAIRY FARMS AND ITS RELATIONSHIP WITH THE STATE OF ANIMAL SPHINCTER. José Pereira Ines López, Angel Castro, Antonio Lenza, José Manuel Pereira	P-1570	THERMAL MANAGEMENT IN PIG FARMING POTENTIALS OF RENEWABLE ENERGY USE Barbara Sturm Barbara Sturm, Luke Matchett, Sharon Joyce, Anthony P. Roskilly
P-0883	THE EFFECT OF LIGHTING PROGRAMS ON EGG PRODUCTION AND QUALITY OF BEIJING YOU- CHICKEN Li Shen Li shen, Zheng Xiang Shi, Baoming Li, Chao Yuan Wang, he ma	P-1664	UREASE ACTIVITY OF DAIRY SLURRY AFTER THE APPLICATION OF ADDITIVES DURING STORAGE Haritz Arriaga Sasieta Haritz Arriaga Sasieta, Maialen Viguria, Fernando Blanco, Pilar Merino Pereda
P-0960	GRAZING EFFECT IN RADIAL PASTURE FROM THE WATERING POINT IN BEEF CATTLE MANAGEMENT OF JAPAN Yoshiharu Hosokawa Yoshiharu Hosokawa	P-1733	EFFECTS OF DIETARY SAFFLOWER CAKE SUPPLEMENTATION ON GROWTH PERFORMANCES, CARCASS TRAITS AND MEAT QUALITY OF COMISANA LAMBS Francesco Pinto Francesco Pinto, Maria Selvaggi, Cataldo Dario, Arcangelo Vicenti
P-1101	CLUSTER ANALYSIS TO STUDY THE TYPOLOGY AND PRODUCTIVITY IN BROILER FACILITIES. Fernando Augusto Souza Fernando Souza Augusto, Adhemar Pitelli Milani, Renato Luis Furlan, Wedson Carlos Lima Nogueira, Miguel Frederico Fernández-Alarcón, Eduardo Alves Almeida	P-1734	DESIGN OF A SOLAR INCUBATOR.PART 1: MONITORING TEMPERATURE AND ENTHALPY GRADIENTS UNDER COMMERCIAL PRODUCTION Javier García-Hierro Navas Javier García-Hierro, José Ignacio Robla Villalba, Pilar Barreiro Elorza, Belén Diezma, Eva Cristina Correa Hernando
P-1368	CLASSIFICATION OF DAIRY FARMS IN GALICIA (SPAIN) BY PRODUCTIVE EFFICIENCY Carlos J. Álvarez Sonia Iríma, Carlos Escudero, Carlos J. Álvarez	P-1742	A QUANTILE REGRESSION MODEL TO PREDICT THE GROWTH OF GILTHEAD SEA BREAM (SPARUS AURATA), UNDER STANDARD CONDITIONS OF PRODUCTION, IN FISH FARMS. Vicente Domingo Estruch Fuster Vicente Domingo Estruch Fuster, Miguel Jover, Ana Tomás, Pablo Mayer
P-1410	SOCIO-ECONOMIC, STRUCTURAL ASPECTS AND MOTIVATIONS IN AUTOMATIC MILKING SYSTEM OF GALICIAN FARMERS Javier Bueno Lema Javier Bueno Lema, Angel Castro, Carlos Amiama, José Manuel Pereira		

- P-1844 ANALYSIS OF A SEQUENCE NUCLEOTIDE POLYMORPHISM IN EXON 16 OF THE STAT5A GENE IN PODOLICA CATTLE BREED
Cataldo Dario
 Maria Selvaggi, Antonella Ramta Pesce Delfino, Vincenzo Tufarelli, Arcangelo Vicenti, Cataldo Dario
- P-1849 PRELIMINARY STUDY ON THE RELATIONSHIP BETWEEN A SNP IN EXON 16 OF THE STAT5A GENE AND SOME MILK COMPOSITION TRAITS IN JERSEY COWS
Antonella Ramta Pesce Delfino
 Maria Selvaggi, Antonella Ramta Pesce Delfino, Vincenzo Tufarelli, Francesco Pinto, Cataldo Dario
- P-1886 EFFECT OF GENOTYPE AND SLAUGHTER AGE ON THE FATTY ACID COMPOSITION OF LIGHT LAMBS MEAT
Giovanni Martemucci
 Angela Gabriella D'alessandro, Giuseppe Marsico, Donato Casamassima, Kostantinos Petrotos, Giovanni Martemucci
- P-1889 ADDING BACILLUS SUBTILLIS AND EXOGENOUS ENZYMES IN BROILER DIET: EFFECT ON RESIDUE PRODUCTION AND BIOGAS POTENTIAL PER BIRD
Maria Fernanda Praes Ferreira Menegucci
 Maria Fernanda Praes Ferreira Menegucci, Maria Fernanda Ferreira Menegucci Praes, Jorge de Lucas Junior, João Batisa Matos Júnior, Sarah Sgavioli, Natalia de Paula Ramos, Airon Magno Aires
- P-2086 TERRITORIAL APPROACH OF THE DEVELOPMENT OF THE LIVESTOCK PRODUCTIONS IN ALGERIA
khaled abbas
 khaled abbas, khaled abbas
- P-2102 AMMONIA EMISSION AFTER ON-FARM AEROBIC TREATMENT IN PIG SLURRY LAGOON
Maialen Viguria
 Maialen Viguria, Haritz Arriaga Sasieta, Pilar Merino Pereda
- P-2162 STUDY OF TWO ENERGY SAVING TECHNIQUES IN A BROILER FARM IN SPAIN. PRELIMINARY RESULTS
Maite Aguilar Ramírez
 Maite Aguilar Ramírez, Alberto Abaigar Ancín, Pilar Merino Pereda, Fernando Estellés Barber, Salvador Calvet Sanz
- P-2230 EVALUATING FUNCTION OF CUBICLES FOR CATTLE BY A PHOTOMETRIC METHOD ? DESCRIPTION OF A METHOD
Anders Herlin
 Anders Herlin
- P-2260 INVESTIGATION OF THE EFFECT OF TOMATO POWDERS AS A DIETARY SUPPLEMENT ON SKIN PIGMENTATION OF GOLDFISH
Mehmet Gokoglu
 Mehmet Gokoglu, Halil Colak

- P-0337 AUTOMATIC FEEDING SYSTEMS (AFS) IN DAIRY CATTLE - SEASONAL INFLUENCES ON MAXIMUM STORAGE TIME OF MAIZE SILAGE IN FILLING DEVICES
Anne Grothmann
 Anne Grothmann; Franz Nydegger; Andrea Wagner

332 SESSION

14:00 -14:55
(EN) POSTERS SESSION
 Location: POSTERS ROOM

- P-0015 BEACON: BIOREFINING IN WALES
Elaine F. Jensen
 Mike S. Morris; Joe A. Gallagher; Elaine F. Jensen; Adam Charlton; Steven Fish
- P-0022 GRASSOHOOL - USE OF HIGH SUGAR RYEGRASS FOR THE PRODUCTION OF LIQUID BIOFUELS
Elaine F. Jensen
 Michael S. Morris; David N. Bryant; Elaine F. Jensen; David S. Thomas; Steven Fish; Joe A. Gallagher
- P-0073 APPLICATION OF BAGASSE BOTTOM ASH ACTIVATED CARBON FOR DECOLORIZATION OF BLEACHING PROCESS IN VEGETABLE OIL INDUSTRY
Parinda Suksabye
- P-0250 A STUDY ON FLUE GAS EMISSIONS OF DIFFERENT REED PLANTS AS BRIQUETTED FUELWOOD
Sefai Bilgin
 Sefai Bilgin, Can Ertekin, Ahmet Kürklü
- P-0533 THE IMPRESS OF SUITABLE MANAGEMENT ON DECREASE OF AGRICULTURAL AND PROCESSING INDUSTRIES WASTES IN IRAN
zahra kalabi
 Zahra Kalabi Gharelar, Mohammad Emaimi, Hadi Tajeddin khoozani, Mohammad Ghahderjani, Shiva Mohammad hoseynzadeh, Nasim Khodakaramian
- P-0649 INVESTIGATING THE CUMULATIVE AND RESIDUAL EFFECTS OF MUNICIPAL SOLID WASTE ON THE UPTAKE OF N, P AND K BY KERNEL WHEAT
Mehdi Ghajar Sepanlou
 Mehdi Ghajar Sepanlou, Akram Ahmadpoor, Mohammad Ali Bahmanyar
- P-0869 ENERGY GENERATION BY UTILIZATION OF BY-PRODUCT FOR SUSTAINABILITY AND ECO-FRIENDLY OF PALM OIL INDUSTRY IN INDONESIA
Soni Sisbudi Harsono
 Soni Sisbudi Harsono; Philipp Grundmann; Anja Hansen

P-0933	INFLUENCE OF DIFFERENT PRE-TREATMENT METHODS ON DEGRADATION OF WHEAT STRAW Marti Tutt Marti Tutt, Timo Kikas, Jüri Olt	P-1857	THE EFFECT OF CELLULOLYTIC MICROORGANISMS ON THE DEGRADATION OF THE SOLID RESIDUAL FRACTION OF STRAW AND HAY Carmen Marin Perez Carmen Marin Perez, Vasilis Dandikas, Michael Lebuhn, Konrad Koch, Andreas Gronauer
P-1013	REVIEW AND ANALYSIS OF THE REGULATIONS OF THE EUROPEAN UNION AND COLOMBIA OF PERSISTENT ORGANIC POLLUTANTS IN THE COMPOST AND ITS IMPACT Esperanza Ayuga-Téllez Diana Ortiz-Moncada, Esperanza Ayuga-Téllez, Rocío Ortiz-Moncada	P-1872	EVALUATION OF BIOMASS SEPARATION PROCESS OF CHLORELLA SP. IN THE MEDIUM GROWING WITH LOW NITROGEN CONTENT Lucas de Paula Corrêdo Lucas De Paula Corredo, Márcio Arêdes Martins, Lidiâne Covell, Rosana Mendonça Peixoto, Emanuele Graciosa Pereira, Michel Oliveira Santos
P-1280	SOCIO-ECONOMIC ASPECTS INFLUENCING THE ADOPTION OF ENERGY CROPS BY EU FARMERS Rita Robles Rita Robles, Piedad Campelo, J. Ramiro González	P-2028	SOYBEAN GROWTH IRRIGATED WITH SWINE WASTEWATER Eliane Hermes Eliane Hermes, Elisandro Pires Frigo, Silvio Cesar Sampaio, Michelle Sato Frigo, Jonathan Dieter
P-1301	A MACHINE PROTOTYPE FOR HARVESTING AND CHIPPING OF PRUNING RESIDUES: FIRST TEST ON HAZELNUT PLANTATION (CORYLUS AVELLANA L) Marco Fedrizzi Marco Fedrizzi, Marco Fedrizzi, Giulio Sperandio, Mauro Pagano, Daniele Pochi, Roberto Faniglilio, Piero Recchi	P-2035	“SOLAR DRAFT TOWER” A LOOK AHEAD INTO DEVELOPING NON-CONVENTIONAL AND RENEWABLE SOURCE OF POWER GENERATION Mahendra Singh Dulawat Mahendra Singh Dulawat, Nikhilesh Kumar
P-1579	DETERMINATION OF OPTIMUM MOISTURE OF COMPOST FOR PRODUCE FERTILIZER PELLET BY USING OF EXTRUDER DEVICE heman amiri heman amiri, akbar Arabhosseini, Mohammad Hossein Kianmehr, Nabi Allah Keshvari	P-2084	ENVIRONMENTAL AND ECONOMIC IMPLICATIONS OF RENEWABLE FUEL STANDARD IN SOUTH KOREA Taegeon Kim Taegeon Kim; Kyo Suh; Jeong-jae Lee
P-1584	AN ADVANCED CONTROL SYSTEM FOR MICROALGAE GROWING IN PHOTOBIO-REACTORS Luis Manuel Navas Gracia Jorge Miñón Martínez, Víctor Martínez Martínez, Gonzalo Ruiz Ruiz, Luis Manuel Navas Gracia, José María Durán Altésent	P-2178	FLOCCULATION PERFORMANCE IN THE HARVEST OF CHLORELLA VULGARIS BIOMASS CULTIVATED IN LOW NITROGEN MEDIUM Lucas de Paula Corrêdo Lucas De Paula Corredo, Márcio Aredeas Martins, Rafael Lira, Rosana Mendonça Peixoto, Ian Colten, Emanuele Graciosa Pereira, Michel de Oliveira Santos
P-1655	THE GIS APPROCH FOR THE MANAGEMENT OF THE PHOENICICOLE BIOMASS POTENTIEL IN THA MZAB OASIS Khalida Bousdira Khalida Bousdira, Khaled Ziani, Dina Bousdira	P-2185	EFFECT OF SUPPLEMENTATION WITH FLUE GAS FROM WASTE INCINERATORS ON BIOMASS AND LIPID PRODUCTION OF CHLORELLA VULGARIS IN PHOTOBIO-REACTORS Rosana Mendonça Peixoto Rosana Mendonça Peixoto, Lucas De Paula Corredo, Lidiâne Covell, Danielle Biajolli Vieira, Michel Oliveira dos Santos, Marcelo Pereira Coelho, Marcio Arêdes Martins,
P-1680	CROP RESIDUES: SEPARATION OF BIOMASS AND PLASTICS. Inmaculada Navarro Mª Carmen Galera, Inmaculada Navarro, Guadalupe López, Félix Nieto	P-2264	MANURE COMPOSTING OF BEEF CATTLE Juliana Bega Junqueira Juliana Bega Junqueira, Jorge e Lucas Junior
P-1786	INVESTIGATION OF THE DRYING PROCEDURE OF WOOD-CHIP PILE Péter Tóvári Péter Tóvári, Mihály Herdovics, Tibor Vojtela, István Szabó, László Fenyvesi		

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SESSION

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- P-1662 EFFECT OF EMI SENSOR ORIENTATION CHANGES ON ECA MEASUREMENTS
Manuel Pérez-Ruiz
 Manuel Pérez Ruiz, Alberto Jardúo, Karl Vanderlinden, Juan Agüera-Vega
- P-0339 PROCESS CONTROL OF HEAT RECUPERATION FROM COMPOST HEAP WITH THE MEASUREMENT OF PROCESS PARAMETERS WITH LABVIEW APPLICATION
Maciej Neugebauer
 Maciej Neugebauer, Piotr Solowiej, Janusz Piechocki
- P-0434 ADAPTATION OF THE VEGETATION RIPÁRIA AREAS CILIARY FUNCTION OF THE DRAINAGE NET OF THE STREAM COMUR WATERSHED - BOTUCATU (SP) - BRAZIL
Sergio Campos
 Sergio Campos
- P-0576 HYDRODYNAMIC PERFORMANCE ANALYSIS OF A GATE-VALVE USING PARTICLE TRACKING VELOCIMETRY (PTV)
Pablo González-Altozano
 Federico Ibáñez, Pablo González-Altozano, María Gasque, Pau Martí
- P-0592 LEAF NITROGEN CONTENT DISCRIMINATION USING COMBINATION OF VEGETATION INDICES
Francisco de Assis Carvalho Pinto Carvalho
 Selma Alves Abrahão, Francisco de Assis de Carvalho Pinto, Daniel Marçal De Queiroz, Nerilson Terra Santos, José Eustáquio De Souza Carneiro
- P-0669 LANDSCAPE ASSESSMENT THROUGH GIS Cruz Calleja Perucho
 Ana Pou Merina, Carmen Marín Ferrer, Cruz Calleja Perucho, Alejandro Saéz Echevarría, Fernando Ruiz Mazarrón, Cristina Velilla Lucini
- P-1137 MONITORING AND ESTIMATION OF TOBACCO DRYING VARIABLES FOR PROCESS MODELING
Gonzalo Ruiz Ruiz
 Víctor Martínez Martínez, Gonzalo Ruiz Ruiz, Luis Manuel Navas Gracia, Jaime Gómez Gil, Jorge Miñón Martínez, Incencio Blanco

P-1377 ANALYSIS OF ERRORS IN THE APPLICATION OF DOSES OF SUPPLIES THE FIXED AND VARIABLE RATES ELECTRONIC GOVERNMENT

Ranière Vieira Rodrigues

Ranière Rodrigues Vieira, Casimiro Dias Gadanhá Junior, Mateus Marrafon Nicolosi, Edmar Casarin Zambianco, Frans Arthur Pavlu

P-1532 SIMULTANEOUS ANALYSIS OF HYDRO-PONIC MACRONUTRIENTS USING ION-SELECTIVE ELECTRODES

Hak-Jin Kim

Hak-Jin Kim, Won-Kyung Kim, Mi-Young Roh, Kyeong-Rok Yoon

P-1803 ONTOLOGY-BASED FOR MEDICINE HISTORY SEARCH AND ALERT SYSTEM IN DEPARTMENT OF NUCLEAR MEDICINE

Jui-Jen Chen

Jui-Jen Chen, Hung-Chi Yen, Pei-Wen Wang

P-2006 UTILIZATION OF INFORMATION ABOUT LOCAL VARIABLE ENVIRONMENTAL CONDITIONS TO PREDICT THE QUALITY OF WHEAT GRAIN DURING THE HARVEST

Mirosław Czechłowski

Mirosław Czechłowski, Tomasz Wojciechowski

P-0236 IVIA'S KNOWLEDGE TRANSFER BY INFORMATION TECHNOLOGY METHODS

Vicent Cebolla

Mª Soledad Rodenas; Mª Pilar Sánchez; Vicent Cebolla

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P-0060 DETERMINATION OF THE VOLUMETRIC SHRINKAGE IN JATROPHA SEEDS DURING DRYING

Osvaldo Resende

Osvaldo Resende, Valdiney Cambuy Siqueira, Tarcísio Honório Chaves

P-0063 FORM AND SIZE OF THE JATROPHA (JATROPHA CURCAS L.) BEANS DURING DRYING AT SEVERAL TEMPERATURES

Osvaldo Resende

Osvaldo Resende, Valdiney Cambuy Siqueira, Tarcísio Honório Chaves

P-0086 EFFECT OF DIFFERENT PLANT ESSENCES ON VASE LIFE OF GLADIOLUS

Mansoore Shamili Hormozgan University

Mansoore Shamili, Khairieh samadizad

P-0106	KINETICS AND CONVECTION DRYING MODELS OF PINEAPPLE SLICES BOTH IN NATURA AND PRE-OSMODEHYDRATED IN INVERTED SUGAR Pedro Amorim-Berbert Pedro Amorim-Berbert, Pedro Amorim-Berbert, Rafael Gomes-Dionello, Marília Berbert-Molina, Ana Paula Martinazzo	P-0355	EXPERIMENTAL STUDY ON MECHANICAL PROPERTIES OF PUMPKIN TISSUE Maryam Shirmohammadi Maryam Shirmohammadi, Prasad Yarlagadda, Yuantong Gu, Vladis Kosse
P-0119	OPTIMIZATION OF SOYBEAN (GLYCINE MAX MERR.) SEED DRYING CONDITIONS WITH RESPONSE SURFACE METHODOLOGY IN A CONSTANT-BED DRYER USING TWO CULTIVARS Reza Tavakkol Afshari Ali Abbasi Surki; Reza Tavakkol Afshari	P-0357	STORAGE EFFECTS ON ELECTRICAL CONDUCTIVITY AND FATTY ACID COMPOSITION OF CARTHAMUS TINCTORIUS SEED Reza Tavakkol Afshari Ramin Alivand, Reza Tavakkol Afshari, Farzad Sharif Zadeh
P-0124	EFFECT OF EDIBLE COATING ON THE QUALITY OF MINIMALLY PROCESSED GARLIC Rungsinee Sothornvit Rungsinee Sothornvit, Pondput Tangwarakit	P-0419	STUDY OF THE DRYING KINETICS FOR APPLES IN A CONVECTIVE DRIER Raquel Guiné Raquel Guiné, Ana Cruz, João Carlos Gonçalves, Ana Cristina Correia
P-0170	EFFECT OF MOISTURE CONTENT ON SOME FRICTIONAL PROPERTIES OF BUSH MANGO (IRVINGIA GABONENSIS) NUT Akindele Folarin Alonge	P-0455	UV-C IRRADIATION REDUCES MICROBIAL POPULATIONS AND MAINTAINS QUALITY OF FRESH-CUT PAPAYA Rivka Darla Amaral Alvares Mara Lígia Biazotto Bachelli, Rivka Darla Alvares Amaral, Benedito Carlos Benedetti
P-0173	SOME PARAMETERS AFFECTING THE CRACKING OF BUSH MANGO (IRVINGIA GABONENSIS) SEED Akindele Folarin Alonge Akindele Folarin Alonge; Theresa Ezike	P-0548	WATER VAPOUR SORPTION ISOTHERMS OF CANARIUM PULP (CANARIUM SCHWEINFURTHII ENGL.) Gilles Bernard Nkouam Gilles Bernard Nkouam, Laurent Perrin, César Kapseu, Danielle Barth, Michel Dirand
P-0227	EFFECT OF ANTIMICROBIAL SUBSTANCES FROM GARLIC EXTRACT ON FOOD-BORNE MICROORGANISMS IN SOFT SHELL CRAB STORED IN ICE Dusadee Tunhun Dusadee Tunhun, Nongnuch Raksa-kulthai, Mayuree Chaiyawatt	P-0585	INFLUENCE OF E-BEAM IRRADIATION PROCESSING ON CHESTNUTS COLOR AND TEXTURE Amilcar L. Antonio Amilcar L. Antonio, Elsa Ramalhosa, Iwona Kaluska, Begoña Quintana, M. João Trigo, Armando Ferreira, Albino Bento,
P-0267	DRYING KINETICS OF LEAVES AND FLOWER-HEADS OF PECTIS BREVIPE-DUNCULATA Pedro Amorim-Berbert Pedro Amorim-Berbert, Marcia Terezinha Ramos Oliveira, Marilia Amorim Berbert Molina, Ana Paula Martinazzo	P-0659	MYCOTOXINS INCIDENCE IN MAIZE STORED IN FAMILY FARMS OF THE SOUTH AND THE TRIANGLE REGIONS OF THE STATE OF MINAS GERAIS, BRAZIL Valéria Vieira Queiroz Valéria Aparecida Vieira Queiroz, Renata Regina Pereira da Conceição, Priscíula Ferreira, Simone Martins Mendes, Rodrigo Véras da Costa, Luciano Rodrigues Queiroz
P-0309	REACTION KINETICS OF OZONE GAS IN THE WHEAT GRAIN MASS Leda Rita Antonino Faroni Leda Rita D'Antonio Faroni, Tales Afonso da Silva, Juliana Lobo Paes, Mônica Ribeiro Pirozi, Alisson Santos Lopes da Silva	P-0674	POS HARVEST AND ANTIOXIDANT ACTIVITY IN AVOCADO 'HASS' SUBJECTED TO GAMMA RADIATION Rogério Vieites Lopes Rogério Vieites Lopes, Érica Regina Daiuto
P-0310	INACTIVATION OF AFLATOXIGENIC FUNGI BY TREATMENT WITH OZONE IN PEANUTS Leda Rita Antonino Faroni Ernandes Rodrigues de Alencar, Leda Rita D'Antonio Faroni, Nilda de Fátima Ferreira Soares, Washington Azevedo da Silva, André Rodrigues da Costa	P-0738	INFLUENCE OF PRE-DRYING ON VACUUM DRYING KINETICS OF CARROTS SLICES Carolina Maria Sánchez Sáenz Carolina Maria Sánchez Sáenz, Rafael Augustus de Oliveira, Kil Jin Park

P-0741	POSTHARVEST TREATMENTS ON QUALITY AND SHELF LIFE OF PERA RIO ORANGE FRUITS. Maria Amalia Brunini Maria Amalia Brunini, Archimedes Chiarelli Nishida, Lidiane Aparecida Kanesiro, Janaína Cristina Kanesiro, Vinicius Antonio Maciel Junior	P-1002	BABASSU COCONUT MILK MICROENCAPSULATED BY SPRAY DRYING Audirene Santana Amorim Audirene Santana Amorim, Gustavo Kazuo Fugita, Louise Emly Kurozawa, Rafael Augustus De Oliveira, Kil Jin Park
P-0744	EFFECT OF POST HARVEST TREATMENTS ON THE QUALITY OF PALUMA GUAVA FRUITS MINIMALLY PROCESSED DURING STORAGE AT LOW TEMPERATURE. Maria Amalia Brunini Maria Amalia Brunini, Ronaldo Campos Pereira, Antonio Luis de Oliveira, Lidiane Aparecida Kanesiro, Janaína Cristina Kanesiro	P-1004	MODIFIED ATMOSPHERE PACKAGING WITH ESSENTIAL OILS BLACK AMBER. EFFECT ON ORGANOLEPTIC QUALITY Salvador Castillo Garcia Salvador Castillo Garcia, H.M. Díaz-Mula, D. Martínez-Romero, M. Serrano, D. Valero
P-0847	ACTION OF ULTRAVIOLET RADIATION ON IN VITRO DEVELOPMENT OF RHIZOCTONIA SOLANI Francile Barbosa Francile Barbosa, Artur Batista de Oliveira Rocha, Sylvio Luis Honório, Claudio Luiz Messias	P-1021	SPRAY DRYING OF PEQUI PULP: INFLUENCE OF THE CONCENTRATION OF CARRIER AND SURFACTANT AGENTS Audirene Santana Amorim Audirene Santana Amorim, Gustavo Kazuo Fugita, Louise Emly Kurozawa, Rafael Augustus De Oliveira, Kil Jin Park
P-0862	MATHEMATICAL MODELING AND SIMULATION OF AN AUTOMATICALLY CONTROLLED CORN BATCH DRYER WITH EXHAUST HEAT RE-CIRCULATION Saeid Minaei Mohammad Tabasizadeh; Saeid Minaei; Dariush Zare; Mohammad Hadi Khoshtaghaza	P-1022	CONVECTIVE DRYING OF PINEAPPLE AFTER OSMOTIC DEHYDRATION Rosa Helena Aguiar Audirene Amorim Santana, Gabriel Pereira Martin Luiz, Rosa Helena Aguiar, Rafael Augustus de Oliveira, Kil Jin Park
P-0898	USAGE OF SOLAR-SPOUTED BED DRIER IN THE DRYING OF PARBOILED WHEAT Serpil Sahin Serpil Sahin, Gulum Sumnu, Ferihan Tunaboyu	P-1051	DRYING OF HUSK RICE GRAIN: MODELING AND THERMODYNAMIC PROPERTIES Gabriel Henrique Horta de Oliveira Gabriel Oliveira, Paulo Cesar Corrêa, Carmen Jarén
P-0917	DEVELOPMENT OF INTELLIGENT PACKAGING WITH SENSOR OF CHITOSAN-ACETATE, POLYVINYL ALCOHOL, AND INDICATORS BROMTHYMOL BLUE AS SPOILAGE FISH FILLETS DETECTOR Taufik Hidayat Riyan Adi Priyanto; Riyan Adi Priyanto; Aninta Saraswati; Taufik Hidayat; Niswani Seknun	P-1056	SHRINKAGE OF PEAR FRUIT CUBES DURING DRYING IN A CABINET DRYER Seyed Mehdi Nassiri Seyed Mehdi Nassiri, Mehdi Heydari
P-0926	EFFECT OF SOME ADDITIVES ON THE SHELF LIFE OF DRIED PAPAYA (VARIETY FORMOSA) OBTAINED BY OSMOTIC DEHYDRATION COMBINED TO CONVENTIONAL AIR DRYING Silvia Germer Silvia Germer, Julia Lancha, Cristhiane Ferrari, Cristiane Ruffi, Sandra Carmello-Guerreiro	P-1282	COMBINED EFFECT OF HIGH PRESSURE AND MODERATE TEMPERATURE ON THE INACTIVATION OF BACILLUS COAGULANS IN TOMATO PULP Morgana Zimmermann Morgana Zimmermann, Donald Schaffner, Gláucia Maria Falcão de Aragão
P-0973	EFFECT OF ULTRASOUND IRRADIATION ON THE MICROSTRUCTURE AND ICE CRYSTAL SIZE DISTRIBUTION OF FROZEN AGAR GEL SAMPLES Hossein Kiani Hossein Kiani, Da-Wen Sun, Zhihang Zhang	P-1290	MONTE CARLO DOSE IRRADIATION PLANNING FOR COMPLEX SHAPED FOODS TREATMENT Belen Juste Belen Juste, Rafael Miró, Gumersindo Verdú, Juan Manuel Campayo, Sergio Díez
		P-1296	MODELING OF DRYING PROCESS OF CORNSTARCH GRANULES IN A FLUIDIZED BED DRYER Lan Chen Lan Chen; Yunhui Xie; Chunhua Lin; Song Du

P-1386	PHYSICAL PROPERTIES OF BIO-BASED POLYETHYLENE PLASTIC AS FOOD PACKAGING MATERIAL Tatuya Nobuhara Tatuya Nobuhara, Y. Hasegawa, K. Konno, H. Kani, T. Endo, T. Kimura	P-1885	AN INNOVATIVE APPLICATION OF PASSIVE REFRIGERATION SYSTEM TO PRESERVE FRESH-CUT FLOWERS Paolo Menesatti Paolo Menesatti, Stefano Giorgi, Gianluca Burchi, Domenico Prisa, Emiliano Canali, Federico Pallottino, Francesca Antonucci, Corrado Costa
P-1393	POSSIBILITIES IN STORING BOILED WHOLE EGGS Csaba Németh Csaba Németh, Csaba Balla, László Friedrich, István Dalmadi	P-1958	INVESTIGATION OF ELECTRICAL FIELD EFFECT ON DRYING RATE AND PERCENT GERMINATION OF BARLEY Jalil Razavi Moein Kamali, Jalil Razavi, Morteza Sadeghi
P-1411	EFFECT OF HHP TREATMENT ON LIQUID WHOLE EGG Csaba Németh Csaba Németh, Csaba Balla, Klára Pásztor-Huszár, Ildikó Zeke	P-1983	EFFECT OF STORAGE CONDITIONS ON THE QUALITY OF RASPBERRY CONCENTRATES Reka Juhasz Reka Juhasz, Monika Steger-Mate, Beatrix Szabó-Nótin, Jozsef Barta
P-1640	DEVELOPMENT OF GRAIN STORAGE TECHNOLOGIES USING OZONE TREATMENT Erno Gyimes Erno Gyimes, Balazs Szabo P, József Deakvari, Mihaly Herdovics, Laszlo Lörcz, Antal Véha	P-1992	THE SHAPE IMPORTANCE IN THE AGRI-FOOD FRAMEWORK P-2036 ATOMIZATION OF CHICORY ROOTS EXTRACT ON A SPRAY DRYER Corrado Costa Francesca Antonucci, Federico Pallottino; Paolo Menesatti, Corrado Costa
P-1686	KINETICS OF MICROWAVE-CONVECTIVE DRYING OF SOME HERBS Dorota Witrowa-Rajchert Magdalena Sledz, Dorota Witrowa-Rajchert	P-2036	ATOMIZATION OF CHICORY ROOTS EXTRACT ON A SPRAY DRYER Rafael Augustus De Oliveira Rafael Augustus De Oliveira; Aline Muta Vivas; Kil Jin Park
P-1765	DRYING KINETICS OF POMEGRANATE (PUNICA GRANATUM) PEELS Regina Isabel Nogueira Regina Isabel Nogueira, Diego Renan Sobreiro Falcão Paim, Felix Emílio Prado Cornejo, Eduardo dos Santos Mariano, Alaide de Sá Barreto, Suely Pereira Freitas	P-2066	ASCORBIC ACID COMPORTAMENT IN LETTUCE VARIETY MIMOSA DURING COOLING STORAGE SUBJECTED AT TWO RAPID COOLING TREATMENTS. Rodolpho Cesar dos Reis Tinini Rodolpho Cesar dos Reis Tinini, Barbara Janet Teruel Mederos
P-1773	COMPARATIVE STUDY OF THE QUALITY OF THE PRODUCTS OBTAINED BY SPRAY DRYING ON A LABORATORY AND PILOT SCALE Regina Isabel Nogueira Monica M. Pagani, Maria Helena M. Rocha-Leão, Sérgio Macedo Pontes, Flávia dos Santos Gomes, Regina Isabel Nogueira, Renata V. Tonon, Lourdes Maria Correa Cabral,	P-2082	DESIGN, DEVELOPMENT AND EVALUATION OF A VARIABLE RATE SPRINKLER BASED ON SENSOR FOR SOLID SET IRRIGATION SYSTEM Jalil Razavi Jalil Razavi; Ali Rezaee Shahrai; Mehdi Gheysari
P-1820	MATHEMATICAL MODELING OF SAFRON DRYING USING A HEAT PUMP ASSISTED HYBRID PV-T SOLAR DRYER Hamid Mortezapour Hamid Mortezapour; Barat Ghobadian; Mohammad Hadi Khoshtaghaza; Saeid Minaei	P-2083	INFLUENCE OF DRYING METHOD ON THE SORPTION CHARACTERISTICS OF DATE POWDER Morteza Sadeghi Morteza Sadeghi, Esmaeil Arragataea, Jalil Razavi, Khaled Gomar
P-1867	INFLUENCE OF UV-C IRRADIATION IN MINIMALLY PROCESSED PÉROLA PINEAPPLE STORED UNDER REFRIGERATION Rivia Darla Amaral Alvares Mara Ligia Biazotto Bachelli, Rivia Darla Álvares Amaral, Benedito Carlos Benedetti	P-2176	INFLUENCE OF OSMOTIC DEHYDRATION AND DRYING THUNDERSTORM ORGANIC ORANGE SWEET POTATO Maria Ivone Barbosa Martins Jacintho Kamila de Oliveira do Nascimento, José Lucena Barbosa Júnior, Maria Ivone Barbosa Martins Jacintho

P-2247	OXYGEN PERMEABILITY MEASUREMENT IN BIAXIALLY- ORIENTED POLYESTER AND CO-EXTRUDED POLYPROPYLENE FILMS Umezuruike Linus Opara Oluwafemi J. Caleb; Umezuruike Linus Opara; Pramod V. Mahajan	P-1246	MFS BASED STRUCTURAL TOPOLOGY OPTIMIZATION Sungyong Lee Sungyong Lee; Taegon Kim; Jeong-jae Lee
P-2252	INVESTIGATION IN THE EFFECT OF DIFFERENT PACKAGING FILM ON EXTENSION OF BREAD SHELF LIFE Mahdi Karimi Mahdi Karimi, Zahra Sheikholeslami, Mehdi Ghiafeh Davoodi, Fariba Naghipoor, Bahareh Sahriyan	P-1402	STRUCTURAL MODEL OF PARTICLE BOARD AND WOOD FOR USE IN CATTLE HANDLING FACILITIES Diogo Sartori de Lucca Diogo de Lucca Sartori, Juliano Fiorelli, Holmer Savastano Junior, Julio Cesar Cravo, Nubia Garzon Barrero
P-2272	MEASUREMENT OF STRUCTURAL CHANGES TO A FOOD MATERIAL DURING DEHYDRATION Wijitha Senadeera	P-1413	MODELS VALIDATION TO ESTIMATE POTASSIUM?S CONCENTRATION USING TDR ON UNSATURATED SOIL COLUMN Isaac Ponciano De Matos Isaac Ponciano De Matos; Jarbas Honório De Miranda; Alisson Jadavi Pereira Da Silva; Eugênio Ferreira Coelho; Gabriel Gomes Porto
P-2339	OSMOTIC DEHYDRATION AND CONVECTIVE DRYING OF FIG FRUITS (FICUS CARICA) Claudia Santacruz-Vazquez Claudia Santacruz-Vázquez, Verónica Santacruz-Vázquez	P-1463	THE PHYSICAL AND GEOMETRICAL CHARACTERISTICS OF CERAMIC BRICKS WITH EIGHT HOLES. Fernando Augusto Souza Fernando Souza Augusto, Adhemar Pitelli Milani, Renato Luis Furlan, Raquel Lunedo, Paulo Roberto de Oliveira Carneiro, Paula Toro-Velasquez
P-2340	EFFECTS OF OZONATED WATER ON SHELF LIFE AND QUALITY CHARACTERISTICS OF FRESH PAPALO (POROPHYLLUM RUDERALE) Claudia Santacruz-Vazquez Claudia Santacruz-Vázquez, Santacruz-Vázquez Verónica	P-1467	POTENTIAL APPLICATION OF SILICATE MATERIALS FOR SOIL AND WATER QUALITY IN AGRICULTURE Emelie Ablaza Casayuran Emelie Ablaza, Katsumi Ishikawa, Midori Hikashi, Daisuke Yasutake
P-2342	SHELF LIFE OF COATED PRICKLY PEARS (OPUNTIA FICUS VAR. INDICA) Veronica Santacruz-Vazquez Verónica Santacruz-Vázquez, Claudia Santacruz-Vázquez, Victor Manuel Huerta-Espinosa	P-1469	VISCOSITY AND ION CONCENTRATION ON WATER STRUCTURE FOR HIGH QUALITY VEGETABLE PRODUCTION IN HYDROPONICS Midori Hikashi Midori Hikashi, Katsumi Ishikawa, Yasumi Hamauzu, Emelie Ablaza, Makito Mori

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P-0014	USING SSM SIMULATION MODEL TO ASSESS THE EFFECTS OF VARYING TEMPERATURE AND REDUCED PRECIPITATION ON CHICKPEA YIELD (A CASE STUDY IN ZANJAN DISTRICT, IRAN) Nasim Meghdadi Nasim Meghdadi, A Soltani, Behnam Kamkar	P-1470	EFFECTS OF SEDIMENTARY ROCK IN IMPROVING YIELD AND QUALITY OF WHEAT VARIETIES FOR LATE SUMMER CULTIVATION Emelie Ablaza Casayuran Emelie Ablaza, Katsumi Ishikawa, Hikashi Midori, Makito Mori
P-0114	EFFECT OF ETHEPHON ON TIME OF OLIVE OIL (ZARD CULTIVAR) HARVESTING Zahra Yousefi Morteza Almassi, Zahra Yousefi, Ali Asgar Zeianloo, Reza Moghadasi, Ahmad Golian	P-1473	THE STRUCTURAL CONTROL OF WATER AND NUTRIENT SOLUTION BY ELECTRO-KINETIC TREATMENT WITH SILICATE MINERAL CERAMICS FOR GREENHOUSE SYSTEMS Midori Hikashi Katsumi Ishikawa, Midori Hikashi, Emelie Ablaza, Daisuke Yasutake
P-1552	ENERGY SAVING STRATEGIES IN RIOJA WINE INDUSTRY Javier Gómez Garrido Javier Gómez Garrido; Alberto Tascón		

P-1667	DETERMINATION OF SOME RHEOLOGICAL PARAMETERS OF MUNICIPAL COMPOST WASTE FOR EXTRUSION PROCESSING Nabi Allah Keshvari Nabi Allah Keshvari; Mohammad Hossein Kianmehr; Akbar Arab Mohammad Hosseini; Heman Amiri	P-1939	PHYSICOMECHANICAL EVALUATION OF CEMENTITIOUS MATRICES WITH PORTLAND CEMENT REPLACEMENT BY RICE HUSK ASH Michelle Rodrigues Santos Michelle Rodrigues Santos, Gisleiva Ferreira, Leandro Shiroma, Antonio Ludo-vico Beraldo, Hernandes de Leon Bento
P-1753	BULK SOLIDS PROPERTIES AND FLOW PATTERN INVESTIGATIONS José Wallace Barbosa Nascimento José Pinheiro Lopes Neto; José Wallace Barbosa Nascimento	P-1976	EFFECTS OF STABILIZATION METHOD ON PHYTOAVAILABILITY OF HEAVY METALS IN MINING IMPACTED FARMLAND AND THEIR ACCUMULATION IN CROP PLANTS AS EVALUATED BY A FIELD EXPERIMENT Sung-Wook Yun Sung-Wook Yun, Ha-Jin Kim, Chan Yu
P-1760	APPROXIMATION TO EARTH MATERIAL FROM INTERNATIONAL NORMATIVE Jaime Cid Falceto Jaime Cid Falceto, Pablo Mosquera Arancibia, Francisco Marcos, Cruz Calleja Perucho, Ignacio Cañas Guerrero	P-2087	TREATMENT EFFECTS OF LIMESTONE AND STEEL REFINING SLAG FOR STABILIZATION OF ARSENIC AND HEAVY METAL IN THE FARMLAND SOILS NEAR-BY ABANDONED METAL MINE Sung-Wook Yun Sung-Wook Yun, Ha-Jin Kim, Chan Yu
P-1761	VERIFICATION MEASUREMENT PROCEDURE IN THERMOGRAPHIC INFRARED CAMERAS César Porras Amores César Porras Amores; Fernando Ruiz Mazarron; Jose Luis Benito Roldan; Ignacio Cañas Guerrero	P-2227	TAILINGS IN THE MELIORATION OF RESIDUAL KAOLIN AS POZZOLANIC MATERIAL IN DRY CONCRETES. Maria Luiza Souza Rezende Maria Luiza Souza Rezende, José Wallace Barbosa do Nascimento, Gelmires Araújo Neves
P-1774	STATIONARY VERSUS MOBILE RECYCLING PLANTS: CHARACTERIZATION OF MIXED RECYCLED AGGREGATE FOLLOWING STRUCTURAL CONCRETE SPANISH STANDARD EHE-08 Julia García González Julia García González, Desirée Rodríguez Robles, Andrés Juan Valdés, Julia María Morán Del Pozo, Manuel Ignacio Guerra Romero	P-2228	FACILITIES OF POULTRY MANURE PROCESSING AND UTILIZATION WITH ENVIRONMENTAL TECHNOLOGIES Anita Csiba Anita Csiba
P-1845	TOMATO SEEDLINGS PROTECTED CULTIVATION IN DIFFERENT TRAYS AND GENOTYPES Cristiane Guiselini Cristiane Guiselini, Sávio Duarte Lopes Cavalcanti, Dimas Menezes, Héliton Pandolfi, Ricardo Brauer Vigoderis, Roberto de A. Melo	P-2259	PERFORMANCE EVALUATION OF GIANT REED PANELS IN SUSTAINABLE AGRICULTURAL BUILDINGS Carmelo Riccardo Fichera Carmelo Riccardo Fichera, Francesco Barreca
P-1924	IMPROVED VERSATILE HIGH-POWER SOLID-STATE LIGHTING EQUIPMENT FOR PLANT GROWING IN PHOTOTRON Algirdas Novickovas Algirdas Novickovas, Ausra Brazaityte, Giedre Samuoliene, Ramunas Sirtautas, Laurynas Dabasinskas, Pavelas Duchovskis	P-2280	USE OF POLYETHYLENE FILMS WITH HIGH REFLECTION TO NIR AND LOW TRANSMISSION TO IR IN GREENHOUSES: EFFECTS ON MICROCLIMATE, ENERGY SAVING AND CROP PRODUCTION Evangelini Kitta Nikos Katsoulas, Thomas Bartzanas, Christos Nikolaou, Dimitrios Anagnostopoulos, Constantinos Kittas
P-1928	HEMP AS IMPROVEMENT ELEMENT FOR EARTH CONSTRUCTION Ignacio Cañas Guerrero Jaime Cid Falceto, Ignacio Cañas Guerrero, Monika Brümmer, Pablo Mosquera Arancibia	P-2348	RETROSPECTIVE ANALYSIS AND PERFORMANCE EVALUATION OF HISTORIC OIL MILLS IN A MEDITERRANEAN REGION IN VIEW OF SUSTAINABLE MANAGEMENT AND DESIGN Salvatore Di Fazio Salvatore Di Fazio, Luigi Lamberto

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SESSION

14:00 -14:55
(SPC-08) POSTERS SESSION

Location: POSTERS ROOM

- P-0054 AGRICULTURE-INDUSTRY LINKAGE AND INEQUITIES IN INDIA
Shailendra Kumar Singh Bablu Thakur
 Shailendra Kumar Singh Bablu Thakur
- P-0396 FOOD LOSS REDUCTION AND VALUE ADDITION THROUGH PROMOTING AGRO-INDUSTRIES DEVELOPMENT IN DEVELOPING COUNTRIES
Divine Nganje Njie
- P-0397 FAO'S INFORMATION NETWORK ON POST-HARVEST OPERATIONS (INPHO) PORTAL
Divine Nganje Njie
 Divine Nganje Njie, Danilo Mejia, Jorge Fonseca
- P-1273 INVESTIGATION OF EFFECTIVE PARAMETERS ON MECHANIZATION COOPERATIVE SUCCESSFUL TOWARD SUSTAINABLE AGRICULTURE IN IRAN
Mohammad Ghahderijani
 Mohammad Ghahderijani; Babak Beheshti; Mehdi Moghadam Kouhi; Rauf Haziniaz; Mahboob Behzad
- P-1565 THE SEARCH FOR HIGHLY QUALITY AND AFFORDABLE FISH FEED IN NIGERIA
Folasayo Fayose Titilola
 Folasayo Fayose Titilola
- P-1837 THERMAL PROCESSING USING MICROWAVE AND EXTRUSION FOR SOYFLOUR
Ramabhai Patil
 Praveen C Bargale, Ramabhai Patil, Punit Chandra
- P-2005 EFFECT OF IMPACT ON SOME PHYSICAL PROPERTIES OF ORANGE FRUIT
Babak Beheshti

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SESSION

14:00 -14:55
(ES) POSTERS SESSION

Location: POSTERS ROOM

- P-0041 RESPONSE OF YIELD AND YIELD COMPONENTS OF THREE RED BEEN (PHASEOLUS VULGARIS L.) GENOTYPES TO COINOCULATION BY OF GLOMUS INTRARADICES AND RHIZOBIUM PHASEOLI
Milad Safapour
 Milad Safapour, Mohammadreza Ardakanian, Shahab Khaghani, Maryam Teymoori

- P-0207 ANALYSIS OF ERGONOMIC ASPECTS DURING PRODUCTION OF CUTTINGS EUACALYPTUS
Danilo Simões
 Danilo Simões, Magali Ribeiro da Silva, Juliana Asenjo Rosa, Paulo Torres Fenner
- P-0208 CHARACTERIZATION OF THE OCCUPATIONAL VIBRATION LEVEL UNDER REAL CONDITIONS OF SEMI-MECHANIZED FOREST HARVESTING IN BRAZIL
Danilo Simões
 Danilo Simões, Paulo Torres Fenner, Magali Ribeiro da Silva
- P-0417 ERGONOMICS CONTRIBUTIONS ON WORK OF ORGANIC SMALL-SCALE FARMERS
Sandra Gemma Francisca Bezerra
 Sandra Francisca Bezerra Gemma, Mauro José Andrade Tereso, Roberto Funes Abrahão
- P-0487 A NEW APPROACH TO ASSESS LABOUR TIME REQUIREMENT, WORK SAFETY, WORK LOAD AND JOB SATISFACTION ON FLEMISH DAIRY FARMS
Robin De Sutter
 Robin De Sutter
- P-0544 ANALYSE THE PULVERIZATION EQUIPMENTS MAINTENANCE AMONG SMALL AND MEDIUM PRODUCERS IN ARARAS, SP,SOUTHEAST REGION OF BRAZIL.
Patricia Monquero Andrea
 Patricia Monquero Andrea
- P-0552 A STUDY ON RESPONSE OF SOME BIOMECHANICAL MODELS OF SEAT-DRIVER BODY EXPOSED TO VERTICAL VIBRATION USING FINITE ELEMENT METHOD
Ali Maleki
 Ali Maleki; Hamed Shahmirzaei
- P-0663 MORTALITY ANALYSIS IN GALICIAN AGRICULTURAL SECTOR FROM 2004 TO 2010
Martin Barrasa Rioja
 Martin Barrasa Rioja, Santiago Lamosa Quinteiro, José Manuel Pererira González, Jesús Maciñeiras Abelleira
- P-0666 STUDY OF THE WORK ACCIDENTS IN THE AGRARIAN GALICIAN SECTOR. SEVERITY AND INJURIES
Martin Barrasa Rioja
 Martin Barrasa Rioja, Santiago Lamosa Quinteiro, Jesús Maciñeiras Abelleira
- P-0692 DECREMENT OF SOUND LEVELS BY RESONATORS
Ali Maleki
 Ali Maleki, Meysam Rezvani, Mohammad Moradi
- P-0702 THE EFFECT OF ENGINE R.P.M AND TRANSMISSION GEAR RATIOS ON SOUND LEVEL OF JOHN DEER HARVESTING COMBINE
Fariba Manuchehri
 Ali Maleki, Fariba Manuchehri, Davood Ghanbarian

P-0705	ACOUSTICAL STUDY OF TWO COMMON USED TRACTORS IN IRAN WHILE TRAVELLING IN RURAL ROADS Fariba Manuchehri Ali Maleki, Fariba Manuchehri, Davood Ghanbarian	P-1557	ANALYSIS OF ACCIDENTS WITH CIRCULAR SAWS OF EMPLOYEES IN AGRICULTURE Kössler Katharina Kössler Katharina; Elisabeth Quendler; Josef Boxberger
P-0706	BIOMECHANICAL MODELS OF DRIVER KNEE (REVIEW) Seyed Mohammad Abdollahi Ali Maleki, Seyed Mohammad Abdollahi	P-1607	LABOUR INPUT ON BAVARIAN DAIRY FARMS WITH CONVENTIONAL OR AUTOMATIC MILKING. Juliana Macuhova Juliana Macuhova, Bernhard Haidn
P-0716	DEVELOPMENT OF TOOL TO AID THE ERGONOMIC DESIGN OF SELF-PROPELLED SPRAY CABINS Ulisses Benedetti Baumhardt Ulisses Baumhardt Benedetti, Airton dos Santos Alonço, Rafael Martins Alves, Rodrigo Martins Alves, Mateus Cereza Brandão, Paulo Roberto Bedin	P-1625	REDUCTION OF THE RISKS RELATED TO FALLING FROM HEIGHTS IN PROCESSES OF GREENHOUSES ROOF MAINTENANCE Angel Carreño Ortega Angel Carreño Ortega, Javier Vazquez Cabrera, María Del Carmen Galera Quiles, Guadalupe Lopez Diaz
P-0896	JD 3140 TRACTOR NOISE POLLUTION DURING TRANSPORT IN RURAL Safoura Sepehri Ali Maleki; Safoura Sepehri	P-1649	CHARACTERIZATION AND FUNCTIONALIZATION OF MULTIWALL CARBON NANOTUBES AS NANOBIOSENSORS IN FOODS Hilda María Hernández Hernández Leonor Guadarrama Fernández, Hilda María Hernández Hernández, José Jorge Chanona Pérez, Adrián Martínez Rivas, Jaime Ortiz López, Vicente Garibay Feblez, Georgina Calderón Domínguez
P-1174	FACTORS INFLUENCING THE OCCURRENCE OF AGRICULTURAL MACHINERY ACCIDENT Byounggap Kim Byounggap Kim, Seung-yeoub Shin, Yuyong Kim, Hyeong-kwon Kim	P-1899	PROTECTION GLOVES EVALUATION FOR PRUNING WITH PNEUMATIC AND ELECTRIC SHEARS Carmen Jaren Carmen Jaren, Pedro Arnal, Jesus Mangado, Ainara López, Silvia Arazuri
P-1202	INHALABLE DUST EMISSION IN THE MECHANICAL HARVESTING OF HAZELNUTS: FIRST COMPARATIVE TEST Marco Fedrizzi Marco Fedrizzi, Marco Fedrizzi, Mauro Pagano, Cinzia Perrino, Massimo Cecchini, Mirko Guerrieri, Pietro Gallo, Marcello Biocca	P-2044	PHYSICAL LOAD OF THE WORKERS IN SHEDS BROILER BREEDERS Cinara Carvalho da Cunha Siqueira Cinara Carvalho da Cunha Siqueira, Ilida de Fátima Ferreira Tinoco, Irene Menegalli, Maria de Fátima Vieira
P-1314	MODELLING WORKING TIME REQUIREMENT AND WORK PERFORMANCE ON THE EXAMPLE OF MOWING Andrea Wagner Andrea Wagner; Beyer Stefanie; Matthias Schick	P-2052	DESIGN AND VALIDATION OF AN ACTIVE WARNING DEVICE FOR THE AGRICULTURAL TRACTOR ROLLOVER. Juan Luis Gamarra Diezma Gregorio Lorenzo Blanco Roldán, Juan Luis Gamarra Diezma, Jesus Antonio Gil Ribes
P-1325	LEVELS OF NOISE AND VIBRATIONS TRANSMITTED TO THE DRIVER OF A MEDIUM-HIGH POWER AGRICULTURAL TRACTOR, UNDER OPERATIVE CONDITIONS Roberto Fanigliulo Daniele Pochi, Laura Fornaciari, Gennaro Vassalini, Cesare Cervellini, Gino Brannetti, Roberto Fanigliulo	P-2153	EVALUATION OF THE NOISE LEVELS OF AGRICULTURAL MACHINES DURING MAINTENANCE WORKS ON THE CAMPUSES OF FCA/UNESP Octávio Plaster Barbosa Octávio Barbosa Plaster, Paulo Torres Fenner, Julian Haas
P-1497	SAFETY FUNCTIONAL REQUIREMENTS FOR ROBOT FLEETS FOR HIGHLY EFFECTIVE AGRICULTURE AND FORESTRY MANAGEMENT (RHEA) Miguel Garrido Izard Miguel Garrido Izard; Angela Ribeiro; Pilar Barreiro Elorza; Benoit Debilde; Patrick Balmer; Jacob Carballido Del Rey; Adolfo Moya Gonzalez; Constantino Valero; Nicola Tomatis; Bart Missotten	P-2199	THE HEALTH RISK OF THE AGRICULTURAL PRODUCTS GROWN IN POTENTIALLY CONTAMINATED SITES: PROPOSAL OF THE ENVIRONMENTAL-HEALTH RISK ANALYSIS Giuseppe Verdiani Giovanni Russo, Giuseppe Verdiani

- P-2200 A SYSTEM FOR DETECTING HAND-ARM VIBRATION IN THE USE OF PORTABLE SHAKERS FOR OLIVES HARVESTING
Pietro Catania
 Giuseppe Aiello, Pietro Catania, Giada La Scalia, Mariangela Vallone

338 SESSION

14:00 -14:55
(SPC-03) POSTERS SESSION
 Location: POSTERS ROOM

- P-0735 EVALUATION OF SPATIAL AND TEMPORAL VARIABILITY OF THE PHYSICAL CHARACTERISTICS OF BERRIES OF OLIVES (*OLEA EUROPAEA L.*), ARBEQUINA, USING IMAGE PROCESSING TECHNOLOGY
Fabiola Flores Pacheco
 Fabiola Flores Pacheco, Stanley Best
- P-0774 ESTIMATION OF SUSHI SHRIMP WEIGHT USING IMAGE ANALYSIS TECHNIQUE AND NON-LINEAR REGRESSION MODELS
Poonpat Poonnoy
 Poonpat Poonnoy, Thinnapop Chum-in
- P-1630 EVALUATION OF INSECT DAMAGE ON BEANS USING IMAGE PROCESSING TECHNOLOGY
Hasan Murat Velioglu
 Hasan Murat Velioglu, Ozgur Saglam
- P-1735 AUTOMATIC ESTIMATION OF THE SIZE AND WEIGHT OF GRAPEVINE BERRIES BY IMAGE ANALYSIS
Nuria Aleixos
 Javier Tardaguila, Mari Paz Diago, José Blasco Ivars, Borja Millán, Sergio Cubero, Leonardo Oscar, Nuria Aleixos Borrás,
- P-1907 SORTING FIGS BASED ON MORPHOLOGICAL PROPERTIES AND NEURAL NETWORK
Ahmad Banakar
 Ahmad Banakar, Naser Behrouzi Khazei, Jalal Khodaei
- P-1941 DESCRIPTION OF Maturity STAGES OF MANGO (*MANGIFERA INDICA L.*) "MANILA" BY IMAGE ANALYSIS AND RIPENING INDEX
Jose Blasco
 Nayeli Vélez Rivera, José Jorge Chanona Pérez, Reynold Ramón Farrera-rebollo, José Blasco Ivars, Georgina Calderón Domínguez, María De Jesús Perea Flores, Israel Arzate Vázquez

- P-2101 INVESTIGATION OF ANTHRACNOSE INFECTION IN MANGO FRUITS USING UV-LIGHT FOR COMPUTER VISION-BASED SORTING APPLICATIONS

Marcus Nagle

Marcus Nagle, Giuseppe Romano, Kiatkamjorn Intani, Busarakorn Mahayothee, Vicha Sardsud, Hans-Joachim Müller

- P-2127 EVALUATION OF INSECT DAMAGE ON WHEAT USING IMAGE PROCESSING TECHNOLOGY

Hasan Murat Velioglu

Ozgur Saglam, Hasan Murat Velioglu

- P-2356 IN-LINE INSPECTION OF THE SHAPE OF POTATOES BY COMPUTER-INTEGRATED MACHINE VISION

Nuria Aleixos

Gamal M. Elmasry, Sherief Radwan, Nuria Aleixos Borrás, Pau Talens, Enrique Moltó, José Blasco Ivars

339 SESSION

14:55–16:30
(PM): AGRICULTURAL MACHINERY

Moderator: Joachim Sauter
 Location: AUDITORIO 1

- 14:55 Introduction
- 15:00 C-0861 SIMULATION OF GRAIN-STRAW SEPARATION BY A DISCRETE ELEMENT APPROACH WITH BENDABLE STRAW PARTICLES
Bart Lenaerts
 Bart Lenaerts, Engelbert Tijskens, Josse De Baerdemaeker, Wouter Saey
- 15:15 C-0938 THE DETERMINATION OF STRAIGHT EDGE BLADES SHARPNESS CHANGE OF AGRICULTURAL MACHINE BLADES AT AGRICULTURAL WORKS BY USING IMAGE ANALYSIS TECHNIQUE
Abdullah Beyaz
 Abdullah Beyaz
- 15:30 C-1968 RELATING THE POWER USED BY THE HARRINGTON SEED DESTROCTOR'S (CAGE MILL) TO THE GRAIN AND CHAFF THROUGHPUT
Nicholas Berry
 Nicholas Berry, Chris Saunders, John Fielke
- 15:45 C-0295 MECHANICAL WEEDING OF RUMEX OBTUSIFOLIUS IN PERMANENT GRASSLAND BY REMOVAL OF ROOTS VIA A MACHINERY PROCESS
Joachim Sauter
 Joachim Sauter, Roy Latsch, Monika Sauter, Walter Odermatt

340 SESSION

14:55–16:30
(SW-SPC01): WATER AND SOIL POLLUTION
Moderator: Jose M. Goncalves
Location: AUDITORIO 2

- 14:55 Introduction
- 15:00 C-0657 RISK-BASED CHARACTERISATION OF HYDROCARBON CONTAMINATION IN SOILS WITH VISIBLE AND NEAR-INFRARED DIFFUSE REFLECTANCE SPECTROSCOPY
Abdul Mounem Mouazen
Reuben N. Okparama, Abdul Mounem Mouazen
- 15:15 C-0761 THE VALUE OF WASTEWATER IN A WATER-STRESSED SUB-CATCHMENT OF ZIMBABWE
Thubelihle Thebe
Thubelihle Thebe
- 15:30 C-1139 DETERMINATION OF HEAVY METALS CONTENT IN SOIL AND RICE PLANT AFTER THREE YEARS APPLICATION OF MUNICIPAL SOLID WASTE COMPOST (MSWC)
Mohammad Ali Bahmanyar
Mohammad Ali Bahmanyar, Elahe Hasanzade, Arezoo Mohammadi

341 SESSION

14:55–16:30
(AP): DAIRY CATTLE MANAGEMENT AND MILKING SYSTEMS
Moderator: Jan Harms
Location: AUDITORIO 3A

- 14:55 Introduction
- 15:00 C-0563 NEW SOFTWARE FOR CALCULATING AND TESTING MILKING MACHINE INSTALLATIONS FOR DAIRY COWS ACCORDING TO ISO STANDARDS
Enrique Arbones
Enrique Arbones, Francisco González
- 15:15 C-0690 EFFECT OF SINGLE TUBE GUIDING MILKING SYSTEM AND PERIODIC AIR INLET ON THE CONCENTRATION OF FREE FATTY ACIDS IN CONVENTIONAL MILKING PARLOUR
Sandra Rose-Meierhoefer
Sandra Rose-meierhoefer, Susanne Demba, Hülya Öz, Ulrich Ströbel, Gundula Hoffmann, Reiner Brunsch
- 15:30 C-0967 EVALUATION OF THE TEAT-END VACUUM BEHAVIOUR IN DIFFERENT AUTOMATIC MILKING SYSTEMS
Ulrich Ströbel
Ulrich Ströbel, Sandra Rose-meierhoefer, Hülya Öz, Ann-Christin Entorf, Ludwig Popp, Reiner Brunsch

- 15:45 C-1491 HOW DO BARN LAYOUT AND MECHANIZATION LEVEL INFLUENCE ON LABOUR INPUT IN DAIRY BARNS?
Geir Naess
Geir Naess, Knut Egil Bøe
- 16:00 C-1827 ANALYSIS AND SIMULATION OF DRIVING TIMES FOR LARGE DAIRY BARNS
Heinz Bernhardt
Heinz Bernhardt, Claudia Leicher, Martin Hanauer, Jochen Simon

342 SESSION

14:55–16:30
(AP): NOVEL ANIMAL HOUSING SYSTEMS
Moderator: Peter Groot Koerkamp
Location: AUDITORIO 3B

- 14:55 Introduction
- 15:00 C-0975 NEW DESIGNS TO FACILITATE A TRANSITION TOWARDS SUSTAINABLE EGG PRODUCTION
Ellen van Weeghel
Ellen van Weeghel, P.w.g. Groot Koerkamp, Jessica Cornelissen
- 15:15 C-0979 AUTOMATIC VS. CONVENTIONAL FEEDING SYSTEMS IN ROBOTIC MILKING DAIRY FARMS: A SURVEY IN THE NETHERLANDS
Carlo Bisaglia
Carlo Bisaglia, Zacharie Belle, Gijsbert Van Den Berg, Johanna (J.C.A.M.) Pompe
- 15:30 C-0521 A MODEL DAIRY FARM INTEGRATED SYSTEM: MORE THAN A FARM
Vanessa Guillamón Enguidanos
Vanessa Guillamón Enguidanos
- 15:45 C-1503 A GREEN BARN DESIGN TO REDUCE THE ENVIRONMENTAL FOOTPRINT OF PORK PRODUCTION IN THE MIDWESTERN U.S.
Larry Jacobson
Larry Jacobson

343 SESSION

14:55–16:30
(EN): BIOENERGY POLICY
Moderator: Borja Velázquez-Martí
Location: MULTIPURPOSE IA

- 14:55 Introduction
- 15:00 C-0848 BIOENERGY INDUSTRY DEVELOPMENT IN UKRAINE
Valeriy Dubrovin
Valeriy Dubrovin, Maksym Melnychuk
- 15:15 C-2361 ESTIMATE OF THE SORTS AND QUANTITY OF BIOMASS FOR PRODUCTION ENERGY IN SERBIA
Miladin Brkic
Miladin Brkic, Todor Janic

15:30	C-1141	EFFECT OF DIFFERENT MUNICIPAL WASTE COMPOST APPLICATIONS ON YIELD AND COMPONENT YIELD OF SOYBEAN (GLYCINE MAX L.) Hemmatollah Pirdashti Sedigheh Vafaiie Rostami, Hemmatollah Pirdashti, Mohammad Ali Bahmanyar, Alaleh Motaghian
15:45	C-1211	ASSESSMENT OF PALM OIL BIO-WASTE WITH COWDUNG FOR COMPOST PRODUCTION Abu Ahmed Mokammel Haque Mohammadtaghi Vakili, Abu Ahmed Mokammel Haque
16:00	C-2285	THE BIOENERGY FARM PROJECT: WEB APPLICATIONS TO ASSESS THE FEASIBILITY OF BIOENERGY EXPLOITATION AT FARM LEVEL Remigio Berruto Remigio Berruto, Patrizia Busato

344 SESSION

14:55–16:30
(IT): QUALITY DETECTION
Moderator: Zeev Schmilovitch
Location: MULTIPURPOSE IC

14:55		Introduction
15:00	C-2255	ADVANCES IN DEVELOPING WEB-BASED DSS ARCHITECTURE FOR DESIGNING AND MANAGING CEREAL GRAIN DRYING AND STORAGE Jerzy Weres Tomasz Kluza, Przemyslaw Jan Nowak, Jerzy Weres
15:15	C-2268	TREE-SCANNER SYSTEM WITH RTK-GPS, LIDAR DATA AND IMU Alexandre Escolà Ignacio Del-Moral-Marínez, Joan R. Rosell-Polo, Alexandre Escolà, Joan Masip-Vilalta, Ricardo Sanz-Cortiella, Jaume Arnó-Satorra
15:30	C-1096	THERMAL EVALUATION OF CAUTERIZED PRICKE PEARS BY AN INDUSTRIAL MACHINE Fedeico Hahn Schlam Federico Hahn, Nahela Salvador Eugenio, Juan Arce, Juan Arce
15:45	C-1287	A FIRST STEP TOWARDS A REAL-TIME PREDICTIVE SUPPORT SYSTEM OF WHEAT YIELD Benjamin Dumont Benjamin Dumont, Vincent Leemans, Salvador Ferrandis, Françoise Vancutsem, Benoit Seutin, Bernard Bodson, Jean-Pierre Destain, Marie-France Destain
16:00	C-2062	FORAGE QUALITY ASSESSMENT IN BALERS Karl Wild Karl Wild, Veit Walther, Karoline Heinrich

345 SESSION

14:55–16:30
(PF): FOOD MANAGEMENT
Moderator: Veerle Van Linden
Location: ROOM 1

14:55		Introduction
15:00	C-0453	MOISTURE SORPTION ISOTHERMS OF ROSEMARY (ROSMARINUS OFFICINALIS L.) FLOWERS AT THREE TEMPERATURES Hossein Ahmadichenarbon Hossein Ahmadichenarbon, Sara Movahed, Seyedeh Masoomeh Hasheminia
15:15	C-0444	OPTIMAL WORK METHOD IN A FLOWERS' DISTRIBUTION CENTER TO ACHIEVE ON TIME DELIVERY Gad Vitner Gad Vitner, Avital Bechar
15:30	C-1203	FOOD LOSSES IN PRIMARY PRODUCTION: THE CASE OF FLANDERS Jürgen Vangeyte Kris Roels, Jürgen Vangeyte, Veerle Van Linden, Dirk Van Gijseghem
15:45	C-1240	ECONOMICAL EVALUATION OF THE PRODUCTS PHYSICAL LOSSES IN FEED MILLS DURING THE PROCESSING Paulo Carteri Coradi Paulo Carteri Coradi, Adílio Flauzino Lacerda Filho, José Benício Paes Chaves
16:00	C-1986	PRODUCTION OF EGGLESS CAKE Fariba Naghipoor Bahareh Sahraiyan, Fariba Naghipoor, Mohammad Bagher Habibi Najafi, Mahdi Karimi, Mehdi Ghiafeh Davoodi, Mohammad Hossein Haddad Khodaparast

346 SESSION

14:55–16:30
(PF): DRYING TECHNOLOGY III
Moderator: Raquel Guiné
Location: ROOM 6+7

14:55		Introduction
15:00	C-2364	CONVECTIVE AND MICROWAVE DRYING CHARACTERISTICS OF GARDEN CRESS LEAVES (LEPIDIUM SATIVUM L.) Turhan Koyuncu Turhan Koyuncu, Fuat Lule, Kaan E. Engin
15:15	C-2194	THIN LAYER DRYING KINETICS AND QUALITY OF AFRICAN BAOBAB LEAF (ADANSONIA DIGITATA) AbdulGaniy RAJI O Abdulganiy Raji O, Abigael ADEYEMI

15:30	C-0347	DRYING OF CHAMOMILE USING A DEVELOPED HYBRID SOLAR DRYER Baher Amer Baher Amer, Klaus Gottschlak
15:45	C-0807	DEVELOPMENT AND EVALUATION OF SMALL SCALE DIRECT MODE PASSIVE SOLAR TOMATO DRYERS Akachukwu Eke Ben Akachukwu Eke Ben, Kayode Simonyan
16:00	C-1100	STUDY OF DRYING KINETICS OF QUINCE Maria João Barroca Maria João Barroca, Raquel Guiné
16:15	C-1874	DESIGN, DEVELOPMENT AND TESTING OF A CHOPPING- EXPRESSION DEVICE FOR PINEAPPLE JUICE EXTRACTION Adesoji Matthew Olaniyan Adesoji Matthew Olaniyan, Damola Emmanuel Adeyemi, Felix Olufemi Ajala

347 SESSION

14:55–16:30
AET: WORKSHOP
Location: ROOM 2

14:55 AET: WORKSHOP

348 SESSION

14:55–16:30
(SE): ENERGY FOR BUILDING
Moderator: Chrysovalantou Lamnatou
Location: ROOM 3

14:55		Introduction
15:00	C-2195	FRESNEL SOLAR CONCENTRATORS FOR AGRICULTURE APPLICATIONS Chrysovalantou Lamnatou Chrysovalantou Lamnatou, Daniel Chemisana, Yiannis Tripanagnostopoulos
15:15	C-1556	FLAT SOLAR CONCENTRATORS FOR PHOTOVOLTAIC SYSTEMS Vania Reis De Souza Sant'anna Vânia Reis De Souza Sant'anna, Delly Oliveira Filho, Adílio Flauzino Lacerda Filho, Aristides Ribeiro, Augusto César Fonseca Ferreira
15:30	C-1264	ASSESSMENT OF INFRARED HEATING BENEFITS IN A PRODUCTION GREENHOUSE Angeliki Kavga Angeliki Kavga, Ioannis Konstas, George Alexopoulos, Thrassos Panidis

349 SESSION

14:55–16:30
(SPC04): ROBOTIC SOLUTIONS FOR HARVESTING CROPS

Moderator: Noboru Noguchi
Location: ROOM 4

14:55		Introduction
15:00	C-2274	ROBOT FARMING SYSTEM IN JAPAN AGRICULTURE Noboru Noguchi Noboru Noguchi
15:15	C-1809	OPTIMIZING FORAGE HARVESTING PROCESS WITH AN INTELLIGENT CONTROL SYSTEM Antti Suokannas Antti Suokannas, Antti Kunnas, Matts Nysand, Raimo Linkolehto, Liisa Pesonen, Juha Backman
15:30	C-1661	APPLE YIELD ESTIMATION DURING THE GROWTH SEASON USING IMAGE ANALYSIS Barna Keresztes Barna Keresztes, Olivier Lavialle, Gilbert Grenier, Pierre Vaysse
15:45	C-0258	DEVELOPMENT OF A MOBILE STRAWBERRY-HARVESTING ROBOT USING A TRAVELLING PLATFORM Shigehiko Hayashi Shigehiko Hayashi, Satoshi Yamamoto, Sadafumi Saito, Yoshiji, Ochiai, Yasushi Kohno, Kazuhiro Yamamoto, Junzo Kama-ta, Mitsutaka Kurita

350 SESSION

14:55–16:30
(SPC08)
Moderator: Antonio Torregrosa
Location: ROOM 5

14:55		Introduction
15:00	C-1105	THE CURRENT SITUATION OF THE INTERVENTION OF PRIVATE SECTOR IN AGRICULTURAL MECHANIZATION DEVELOPMENT IN AFRICAN COUNTRIES Karim Houmy Karim Houmy, Josef Kienzle, John Ashburner
15:15	C-0313	DEVELOPMENT OF A MANUALLY OPERATED DISC-TYPE CORN SEEDER Rolando Javellonar Rolly Rolando Javellonar Rolly
15:30	C-0901	A LOW COST PRECISION PNEUMATIC PLANTER FOR VEGETABLES - STUDIES AND DEVELOPMENT Pradeep Rajan Pradeep Rajan, Nps Sirohi

15:45	C-2313	DEVELOPMENT OF A PRIMARY TILLAGE IMPLEMENT USING SMALL PRIME MOVER Chandra Shekhar Sahay Chandra Shekhar Sahay, E. V. Thomas, K. K. Satapathy
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351 SESSION

14:55–16:30
(ES): ASSESSMENT OF SAFETY AND RISKS
Moderator: Roberto Funes Abrahao
Location: MULTIPURPOSE IB

14:55		Introduction
15:00	C-1389	ROPS DESIGN EVOLUTION WITH RESPECT TO THE REQUIREMENTS OF THE STRENGTH TEST PROCEDURES Valda Rondelli Valda Rondelli, Enrico Capacci, Bruno Franceschetti, Adriano Guarneri
15:15	C-0698	HEAVY METALS ACCUMULATION AND MALFORMATION OF GREEN MUSSEL (PERNA VIRIDIS) IN JAKARTA BAY Muhammad Reza Cordova Muhammad Reza Cordova, Neviaty Putri Zamani, Fredinan Yulianda
15:30	C-0726	AGRICULTURAL VEHICLES AND RURAL ROAD SAFETY: AN ENGINEERING CHALLENGE! C.F. (Rinus) Jaarsma C.F. (Rinus) Jaarsma, J.r. De Vries
15:45	C-1150	OUTDOOR SYSTEM FOR BEEF PRODUCTION - IDENTIFICATION OF WORK INJURY RISK DURING COLD SEASON Qiu Qing Geng Qiu Qing Geng, Eva Salomon, William E. Field
16:00	C-2300	INTEGRATED PRODUCTION AND SAFETY RISK MANAGEMENT ON FARMS Jarkko Leppälä Jarkko Leppälä

352 SESSION

14:55–16:30
(SPC03): ANIMAL INSPECTION
Moderator: Jorge Chanona
Location: ROOM 8+9

14:55		Introduction
15:00	C-0555	MACHINE VISION GUIDED CLEANING FOR AUTONOMOUS PIG STY CLEANING Michael Nielsen Michael Nielsen, Andersen Petersen, Kurt Nielsen

15:15	C-0565	AUTOMATIC COW'S BODY CONDITION SCORING Amos Bercovich Amos Bercovich, Yael Edan, Victor Alchanatis, Uzi Moallem, Yisrael Parmet, Hen Honig, Ephraim Maltz, Aharon Antler, Ilan Halachmi
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15:30	C-0737	DETERMINATION OF CARCASS COMPOSITION OF GOATS BY VIDEO IMAGE ANALYSIS Antonio Monteiro Cardoso Antonio Monteiro Cardoso, Alfredo Teixeira, Jorge Azevedo, Severiano Silva
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15:45	C-1034	CAPTURING 2D AND 3D BIOMETRIC DATA OF FARM ANIMALS UNDER REAL-LIFE BARN CONDITIONS Henry Stahl Henry Stahl, Kristina Schädler, Eberhard Hartung
16:00		CLAUSURE SPC-03

GUEST PROGRAM

VALENCIA CITY AND ALBUFERA LAKE TOUR
Date: Monday 9th July 9:00 - 16:00
Departure: Valencia Conference Center (VCC)
Only for accompanying persons

SOCIAL AND HOSTED RECEPTIONS

SUNDAY

Welcome coffee

Date: Sunday 8th July 13:00 - 14:00
Venue: ETSIAMN Hall's - UPV (Edificio 3P)

CIGR-AgEng 2012 Welcome Reception

Date: Sunday 8th July 19:00 - 21:00
Venue: Paraninfo (UPV) (Edificio 3A)

MONDAY

Coffee EurAgEng- Eastern European countries

Date: Monday 9th July 19:30 - 20:30
Venue: Valencia Conference Center (VCC)
Location: Room 4

TUESDAY

Breakfast EurAgEng ASABE

Date: Tuesday 10th July 7:00 - 8:00
Venue: Hotel Sorolla

Award Ceremony

Date: Tuesday 10th July 18:30 - 20:30
Venue: Valencia Conference Centre (VCC)
Location: Auditorio 1

Conference Dinner

Date: Tuesday 10th July 20:30 - 23:30
Venue: Hotel Sorolla

WEDNESDAY

Closing Ceremony

Date: Wednesday 11th July 16:30 - 17:30
Venue: Valencia Conference Centre (VCC)
Location: Auditorio 1

Spanish Wine for Closing Ceremony

Date: Wednesday 11th July 17:30 - 18:00
Venue: Valencia Conference Center (VCC)

POST CONFERENCE TOURS

THURSDAY

All visits start in the Valencia Conference Center at 8:00 am.
They meet in IVIA at 14:00 for lunch and all tours end in the
Valencia Conference Center at 16:30.

THE AVAILABLE VACANCIES WILL BE FILLED ACCORDING
TO REGISTRATION ORDER.

Each tour includes: Bus, technical visit and lunch.

PT#1 Winery: VICENTE GANDÍA

Description: Technical visit to a wine producer Vicente
Gandía Valencia Winery. Visit to Hoya de Cadenas Estate
(<http://www.hoyadecadenas.es>): wine-making room and
cask room with information about wine-making and ageing.
Will be also visited the vineyards, with special emphasis in
grape varieties and local soil and climate conditions, and
irrigation system. The visit will end in the old cellars with a
wine tasting.

CONTACT PERSON: Ricardo Suay

PT#2 Dairy Farm: GRANJA SAN RAMÓN

Description: A model dairy cattle farm in Valencia, with 2000 animal heads, Granja San Ramon <http://www.gruposanramon.es>. Highlights of the visit include modern installations for dairy cattle accounting for improved animal welfare systems, open naturally-ventilated housing systems, fully-automation of processes in milking and identification, and on-farm biomethanisation plant.

CONTACT PERSON: María Cambra López

PT#3 Fresh-cut: VERDIFRESH

Description: Technical tour to Verdifresh S.L. The company was established in 2000 and now is leader in the Spanish market of fresh-cut vegetables, with the distribution of more than 45% of the sales. The group has 4 production sites distributed in Spain to cover all the geography, a production area of about 25.000 m², and more than 500 employees. Their facilities present the latest technologies in the area. The company produces a wide range of products and ready to cook vegetables. <http://www.verdifresh.com>

CONTACT PERSON: María Bernardita Pérez

PT#4 Packinghouse: FONTESTAD

Description: Technical tour to a citrus orchard and packing-house of FONTESTAD in Musero (Valencia). Fontestad is a family company for citrus handling and distribution since 1950s. The packinghouse of FONTESTAD occupying premises measuring 1.500m² and is one of the most prestigious Packinghouses in Valencia. <http://www.fontestad.es>

CONTACT PERSON: José Blasco

PT#5 Silos and Granular Materials: ILPERSA

Description: Visit to Ilpersa facilities: metallic Silos, bucket elevators, machines of selection by colour and cold storage of the grains. This company was founded in 1918 and was initially dedicated to the aspiration and filtering market. From 1987 the company expanded its products to cereal market.

Nowadays, Ilpersa is leader in the rice market. They process until the 90% of Spanish production of cereals. <http://www.ilpersa.com>

CONTACT PERSON: Miguel Redón

PT#6 Energy: BIOMASS GASIFICATION PLANT

Description: During this tour you will visit a biomass gasification plant placed in Játiva that produces 13.000 MWh/year of electric energy. Nowadays, the plant used around 10.000 Tn/year of residual forest biomass but other ligneous biomass like energy crops or residual agricultural biomass could be used.

CONTACT PERSON: Borja Velázquez-Martí

PT#7 GOLF TOURNAMENT

The Organizing Committee offers the possibility of participating in a golf tournament that will be celebrated on Thursday 12th July in The Parador El Saler Golf Course.

The Parador El Saler (Valencia) Golf course is considered by professionals, amateurs, institutions and the specialized press alike to have one of the best course layouts in the world.

Built in 1968 by the internationally recognized "architect of Spanish golf" Javier Arana, the course is located in the El Saler Nature Reserve, on the shores of the Mediterranean sea in the Autonomous Community of Valencia. This Community considers this course a source of pride.

The Parador El Saler Golf Course requires the affiliation of the players as well as clothing and footwear suitable for a Golf course.

To that end, the Golf Course shop offers you the possibility to acquire proper clothing and to rent the bag of golf clubs and the buggy.

At the end of the golf tournament the participants will enjoy of a great meal in the Valencia Institute of Agricultural Research (IVIA).

www.elparador.es

Schedule: 7:00 to 13h.

~~CANCELED~~

GENERAL INFORMATION

VENUES

SATURDAY

Hotel Melia Valencia
Avenida Cortes Valencianas, 52
Valencia 46015

SUNDAY

Polytechnic University of Valencia (UPV)
Camino de Vera, s/n
46022 Valencia

Bus available from Conference Centre to UPV on Sunday
at 9:00 a.m.

MONDAY TO WEDNESDAY

Valencia Conference Centre (Palacio de Congresos)
Avenida de las Cortes Valencianas, 60
46015 Valencia, Spain

REGISTRATION DESK OPENING HOURS

Sunday 8th of July: from 14.00h to 18.30h
Monday 9th of July: from 7.30h to 18.30h
Tuesday 10th of July: from 7.30h to 18.30h
Wednesday 11th of July: from 7.30h to 16.30h

NAME BADGES

We invite you to wear your name badge at all times so that we know you are a conference attendee. It will allow you access into meetings, the congress palace hall meals and functions.

PREVIEW ROOM OPENING HOURS

All speakers should check and deliver their PowerPoint presentations to the Preview Room at least 4 hours before the start of the session or the day before for early morning sessions.

Sunday 8th of July: from 14.00h to 18.30h
Monday 9th of July: from 7.30h to 18.30h
Tuesday 10th of July: from 7.30h to 18.30h
Wednesday 11th of July: from 7.30h to 16.30h

ELECTRONIC DEVICES:

As a courtesy to your colleagues, we invite you to turn off or silence all electronic devices during sessions, workshops or plenary addresses.

BUSINESS CENTRE

A Business Centre with computer facilities is available at the desk of the Auditorium 1.

WIFI

Internet access is available through WIFI connection in the Business Centre and in the cafeteria area situated on the ground floor.

LUGGAGE DEPOSIT

Luggage can be left during congress hours at the luggage deposit located besides Business Centre Desk. The Organizing Secretariat and the Conference Centre are not responsible for any item left beyond duty hours.

CATERING FACILITIES

Lunches will be served in the exhibitor area located on the ground floor, at the time specified in the programme. Coffee breaks will be also provided during the Congress.

REGISTRATION:

If you have any questions during the conference the staff at our registration desk will be glad to help you. The registration desk is located on the hall of the Valencia Conference Center.

Registration Fees	Early rate Closes April 30, 2012	Regular rate Closes July 1, 2012	Desk Rate ¹
Members EurAgEng, CIGR, ASABE, ISHS	480€*	530€*	580€*
Non Members	530€*	580€*	630€*
Student	300€*	350€*	400€*
Low income and low- middle income countries ²	400€*	450€*	500€*
Accompanying person	110€*	120€*	130€*
One-day admission ³			300€*
Conference Dinner	30€*	30€*	40€*

*VAT included

1 The latest day for on-line registration is July 1, 2012. Registrations received after this date will not be considered on-line and will have to be resubmitted at the Conference registration desk, from July 8, 2012.

2 The list of low income and low-middle income countries is taken from The World Bank.

3 One-day admissions will only be sold the same day at the registration desk.

THE REGISTRATION FEE FOR PARTICIPANTS INCLUDES

- Welcome Reception on July 8, 2012
- Attendance to all Scientific Sessions and Conference Documentation
- Coffee-breaks.
- Lunches on Monday, Tuesday and Wednesday
- Certificate of attendance

THE REGISTRATION FEE DOES NOT INCLUDE

Conference Dinner on Tuesday

THE REGISTRATION FEE FOR ACCOMPANYING PERSON(S) INCLUDES

- Welcome Reception on July 8, 2012
- Half-Day Valencia City Tour on July 9, 2012

THE REGISTRATION FEE FOR ACCOMPANYING PERSON(S) DOES NOT INCLUDE

Conference Dinner on Tuesday

Please note that only fully registered participants will be admitted to the scientific sessions!

THE REGISTRATION FEE FOR STUDENTS

Student registrations are only accepted with a copy of a student card. Students' registration fees includes all benefits granted to regular participants.

ONE-DAY ADMISSIONS

One-day admissions will only be sold the same day at the Conference registration desk.

Participants will benefit from all Conference activities taking place at the registered day. One-day participants will receive the complete Conference documentation.

PAYMENT

Registrations will not be processed without payment. Full payment in Euros should be received before the corresponding deadline; otherwise, the preferential rate will not be granted.

CANCELLATIONS

Cancellations of confirmed registrations will result in a 100 € cancellation fee per participant as long as it is received by June 1, 2012. Refunds by credit card or bank transfer will be made after the conference.

For cancellations received after June 1, 2012, no refunds will be made.

LIABILITY AND INSURANCE

Participants are advised to make their own personal travel and health insurance arrangements. Neither the Local Organizing Committee nor the Congress Organizers assume any responsibility for damage or injury to persons or property during the congress.

CHANGES

The Local Organizing Committee reserves the right to make changes to the program as deemed necessary.

CONTACT INFORMATION

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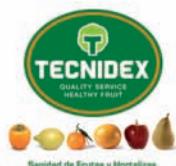


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