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AIAA (American Institute of Aeronautics and Astronautics)

- 미국항공우주학회(AIAA)는 91개국 3만 명 이상의 개인회원과 100개의 기업 회원을 보유하고 있는 세계 최대의 항공 우주 조직.
- 1963년 가장 위대한 두 곳의 항공우주 학회인 American Rocket Society(1930년 설립)와 Institute of the Aerospace Sciences(1933년 설립)의 합병에 의해 설립된 AIAA는 80년이 넘는 기간 동안 항공우주 분야의 선구자.
- 항공우주 분야의 가장 중요한 회의와 행사를 주최하며, 항공 우주 전문가들이 정보를 교환하고 결과를 발표.
  (매년 주요 항공우주 주제에 관한 24개의 회의를 주최한다.)
- AIAA는 30명의 이사회(Board of Director)를 구성하여 연구 진행. (4년 임기)

✓ 항공우주 분야의 최고의 기술, 과학 연구 자료
✓ 항공 및 우주 항행학 분야의 Conference 자료

AIAA 품목 소개

AIAA Journals

*** 주제분야: 항공우주, 기계, 통신, 전기, 전자공학**

- AIAA Journal은 항공우주산업에 관련된 8종의 저널(Peer-Reviewed)을 Online으로 제공
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Journal of Aircraft	1964	항공기의 발전, 항공기의 운항 및 기타분야의 항공기 응용 프로그램	항공기 시스템, 설계, 비행역학, 제어시스템
Journal of Guidance, Control, and Dynamics	1982	항공, 우주, 천체역학 및 관련분야의 제어, 역학자료	항공, 해양시스템에 대한 안정성, 제어, 항공전자 및 정보처리
Journal of Propulsion and Power	1985	항공기 및 우주 항공 추진 및 전력기술을 수록	고체 및 액체 로켓. 연료 및 추진체
Journal of Spacecraft and Rockets	1964	우주선 및 로켓에 관한 자료 수록	우주선과 로켓의 구성, 시스템, 우주선 재처리 및 제조, 우주선 센서. 통신, 복구 및 수리
Journal of Thermophysics and Heat Transfer	1987	항공기의 열전달 기술에 대해 수록	항공기의 전도성, 대류성, 방사성 및 열전달 다상 모드
Journal of Aerospace Information Systems	2013	항공우주 통신 시스템의 네트워크, 새로운 응용 프로그램 소개	전자기학, 안테나 이론, 네트워크의 기본 네트워킹 하드웨어 전송기술
Journal of Air Transportation	2016	유인항공기, 무인항공기를 포함하여 항공 교통관리 및 항공운영 에 관한 저널	항공운항의 기술, 운영, 경제, 정책을 포함

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2nd Computers in Aerospace Conference, 1979, 10.2514/6.1979-1995
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NeilMilburn
48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, 2010, 10.2514/6.2010-570
Citation

Aerospace Illinois education in aerospace sciences
WAYNE SOLOMON, JAMES LAZAR
29th Aerospace Sciences Meeting, 1991, 10.2514/6.1991-34

Southern Nevada Aerospace History (AIAA 2016-1163)
Sofia I. Russi, Daniel Henry
54th AIAA Aerospace Sciences Meeting, 2016, 10.2514/6.2016-1163

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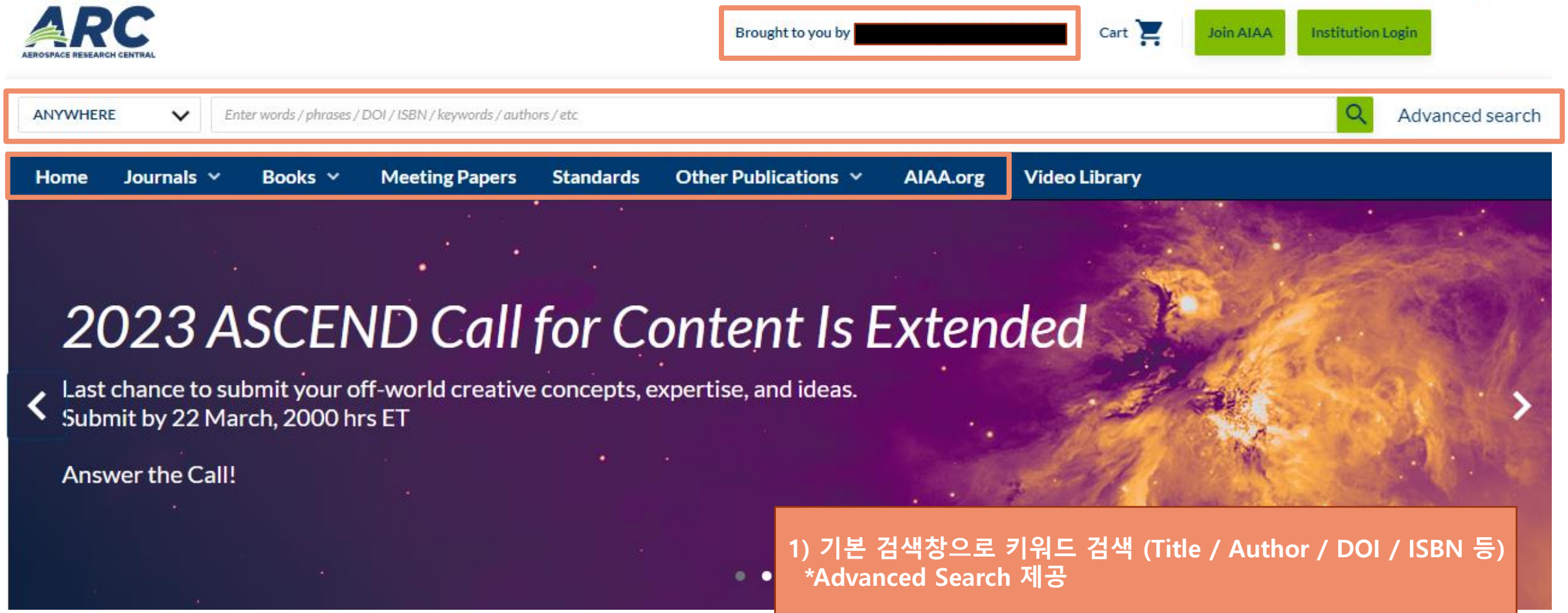

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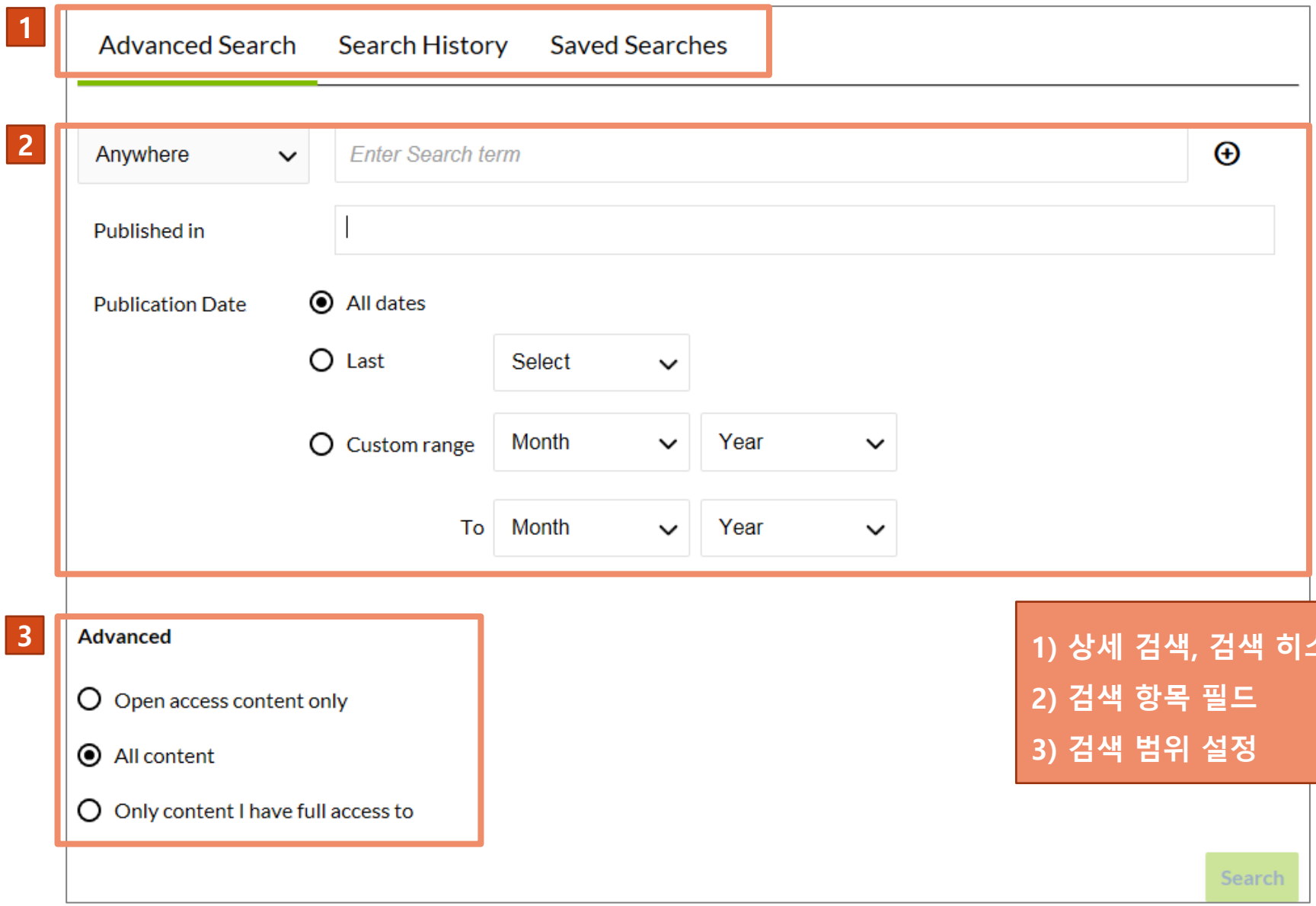

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Ella M. Atkins

14 August 2014 | Journal of Aerospace Information Systems • Volume 11, Issue 10

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1

Jeonghwan Ko and Sang Yeon Cho

AIAA 2016-2530
Session: LRBO - Launch Vehicle Development Programs

Published Online: 13 May 2016 • https://doi.org/10.2514/6.2016-2530

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nd civilian purposes. Herein,
and also current and future
activities in KARI for the development of space launch vehicles. In the beginning, KARI developed solid propellant sounding rockets named KSR(Korea Sounding Rocket)-I and KSR-II for scientific atmospheric measurements. After that, KARI developed a liquid propellant sounding rocket, KSR-III, and successfully finished flight test in 2002. The KSR-

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Space Launch Vehicle Development in Korea Aerospace Research Institute

Jeonghwan Ko[1] and Sang Yeon Cho[2]
Korea Aerospace Research Institute, Deajeon, Korea

Since its establishment in 1989, Korea Aerospace Research Institute(KARI) has been developing rockets for more than 25 years for purely scientific and civilian purposes. Herein, we present the historical review of rocket development in KARI and also current and future activities in KARI for the development of space launch vehicles. In the beginning, KARI developed solid propellant sounding rockets named KSR(Korea Sounding Rocket)-I and KSR-II for scientific atmospheric measurements. After that, KARI developed a liquid propellant sounding rocket, KSR-III, and successfully finished flight test in 2002. The KSR-III rocket utilized pressure fed kerosene and liquid oxygen as propellants, and was equipped with an indigenous engine of 13 ton thrust developed in Korea. After developing a series of sounding rockets, KARI started KSLV(Korea Space Launch Vehicle)-I program in 2002 to develop space launch vehicle to be launched from Korean territory. KSLV-I was developed via international collaboration with Russian partners. The first stage of KSLV-I was developed by the Russian partners and was based on liquid engine using kerosene and liquid oxygen. The 2nd stage was developed by KARI based on domestic technology and was based on solid rocket engine. The space center for the launch of KSLV-I was built in the southern province of Korean peninsula. KSLV-I was designed to put 100kg satellite into 300kmx1500km orbit. The KSLV-I had 3 test flights with 2 failures in 2009 and 2010, and 1 success in 2013. In order to have a capability to launch a 1.5ton class satellite into 700km altitude sun synchronous orbit, KARI began KSLV-II program in 2010. The KSLV-II launch vehicle is 3 staged and is based on 75ton class engine for the 1st and the 2nd stages, and 7ton class engine for the 3rd stage. Both 75ton class and 7ton class engines are currently under development in Korea. Both engines are based on turbopump for the pressurization of propellants, and utilize gas generator for the operation of turbopumps. The initial flight test of KSLV-II full size vehicle is scheduled in the year 2019. The KSLV-II vehicle will be employed for the launch of some of the satellites built through the government programs in the future and also for the launch of the lunar exploration spacecraft which is scheduled to be developed by KARI. Once the KSLV-II launch vehicle is successfully developed, KARI has a plan to develop a vehicle which can launch geosynchronous orbit satellites in the future.

Abbreviation

AC = assembly complex

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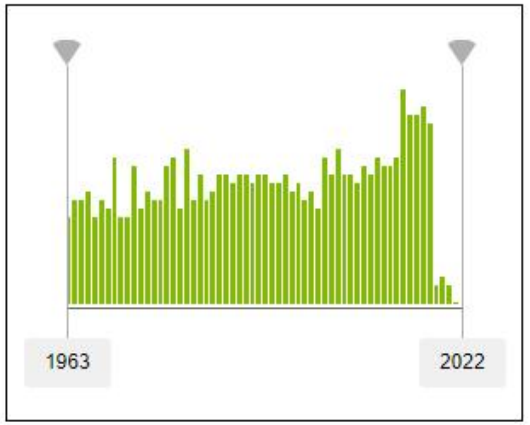

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Chris Hamley and John L. Crassidis

AIAA 2022-0615

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