Fourth International Conference on the **U**nified **M**odeling **L**anguage

<<U**M**L>> 2001

"Modeling Languages, Concepts and Tools"

**October 1 - 5, 2001,
Toronto, Ontario, Canada**

Programme

Organization

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Conference Chair : Jaelson Castro, Brazil
Programme Chair : Martin Gogolla, Germany
Tutorial/Workshop Chair: Heinrich Hussmann, Germany
Publicity Chairs :   Jean-Michel Bruel, France
                          Robert France, USA
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                             Mark Richters, Germany

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<<UML>> 2001 is the fourth conference in the <<UML>> series. The conference is the premier venue for exchange of innovative technical ideas and experiences relating to the Unified Modeling Language (UML). In 2001, the conference moves to Toronto, one of the most multicultural city in the world.   The main conference progamme runs from Wednesday 3rd October through Friday 5th October. Prior to the main programme, there are two days of tutorials and workshops.

Programme Highlights

The keynote speakers <<UML>>2001   welcomes three outstanding plenary speakers:

- ✓ Dr. James Rumbaugh, Rational Software Corporation, USA
- ✓ Prof. Werner Damm, University of Oldenburg, Germany
- ✓ Prof. John, Mylopoulos, University of Toronto, Canada

The technical papers   includes 32 full papers, selected from a total of   102 submissions, reporting on a full range of topics, including Metamodeling, Activity Diagrams, OCL, Architecture and Patterns, Analysis and Testing, Performance and Databases, Graph Transformation, Associations and Ontology, Statecharts.

The panel sessions   aim to provide stimulating discussion of interesting issues related to the research and practice of UML:

- ✓ Formal Semantics for UML: Why? How? For Whom?
- ✓ UML Profiles
- ✓ UML 2.0
- ✓ Visual Modeling beyond UML

The workshops are on Monday and Tuesday.   They provide a forum for groups of researchers and practitioners to meet for one day and to exchange opinions, advance ideas, and share preliminary results on focused issues in an atmosphere that fosters interaction and problem solving:

- ✓ Practical UML-Based Rigorous Development Methods - Countering or Integrating the eXtremists?
- ✓ Concurrency Issues in UML
- ✓ The Constraint Language for UML 2.0

The tutorials are also on Monday and Tuesday.   The full-day or half –day tutorials provide the opportunity to gain new insights, knowledge, and skills:

- ✓ Describing Software Architecture with the UML
- ✓ A Revolution in UML Tool Use? Tool Adaptation, Extension and Integration using XMI
- ✓ From Requirements to UML Models with Use Case Maps
- ✓ Realising MDA: a Precise Meta-Modelling Approach
- ✓ Executable UML (xUML): An Interactive Tutorial

Receptions <<UML>>2001 features two causal receptions and a banquet with great food to give all an opportunity to meet and mingle with old and new friends.

We hope you enjoy the week!!

Cris Kobryn	Jaelson Castro
General Chair	**Conference Chair**
Martin Gogolla	Heinrich Hussmann
Programme Chair	**Tutorial & Workshop Chair**
Jean-Michel Bruel & Robert France	Manuel Kolp
Publicity Chairs	**Local Chair**

Monday at a Glance			
	@ Conference F Workshop W3: Practical UML-Based Rigorous "Development Methods - Countering or Integrating the eXtremists?"	@ Windsor W + E Tutorial T1: **Bran Selic & Wojtek Kozaczynski** "Describing Software Architecture with the UML"	
09:00-10:30			
10:30-11:00	Nutrition Break @ Foyer		
10:30-12:30	W3 Continued	T1 Continued	
12:30-14:00	**Lunch @ Conference B+C** (for all Monday tutorial and workshop attendees)		
14:00-15:30	W3 Continued	T1 Continued	@ Conference D + E Tutorial T3: **Perdita Stevens** "A Revolution in UML Tool Use? Tool Adaptation, Extension and Integration using XMI"
15:30-16:00	Nutrition Break @ Foyer		
16:00-17:30	W3 Continued	T1 Continued	T3 Continued
18:00-19:30	**Tutorial and Workshop Welcome Reception @ Long Bar (Sheraton Hotel)**		

09:00 – 10:30   Workshop **W3:**   @ Conference F
Practical UML-Based Rigorous
"Development Methods - Countering
or Integrating the eXtremists?"
Tutorial **T1:**   @ Windsor W + E
Bran Selic & Wojtek Kozaczynski
"Describing Software Architecture
with the UML"

10:30 – 11:00   Nutrition break @ Essex Foyer

11:00 – 12:30   Workshop **W3** Continued   @ Conference F
Tutorial **T1** Continued   @ Windsor W + E

12:30 – 14:00   Lunch @ Conference B + C

14:00 – 15:30   Workshop **W3** Continued   @ Conference F
Tutorial **T1** Continued   @ Windsor W + E
Tutorial **T3**:   @ Conference D + E
Perdita Stevens
"A Revolution in UML Tool Use? Tool
Adaptation, Extension and Integration
using XMI"

15:30 – 16:00   Nutrition break @ Essex Foyer

16:00 – 17:30   Workshop **W3** Continued   @ Conference F
Tutorial **T1** Continued   @ Windsor W + E
Tutorial **T3** Continued   @ Conference D + E

18:00 – 19:30   Tutorial and Workshop
Welcome Reception
@Long Bar (Sheraton Hotel)

	Tuesday at a Glance			
9:00-10:30	@ Essex Workshop **W4**: Concurrency Issues in UML	@ Conference F Workshop **W5**: The Constraint Language for UML 2.0	@ Windsor West Tutorial **T4**: **Daniel Amyot & Gunter Mussbacher** "From Requirements to UML Models with Use Case Maps"	@ Windsor East Tutorial **T6**: Tony Clark & Andy Evans & Stuart Kent "Realising MDA: a Precise Meta-Modelling Approach"
10:30-11:00	Nutrition Break @ Foyer			
11:00-12:30	**W4** Continued	**W5** Continued	**T4** Continued	**T6** Continued
12:30-14:00	**Lunch @ Conference D + E** **(for all Tuesday tutorial and workshop attendees)**			
14:00-15:30	**W4** Continued	**W5** Continued	@ Windsor West Tutorial **T9**: **Chris Raistrick & Ian Wilkie** "Executable UML (xUML): An Interactive Tutorial"	
15:30-16:00	Nutrition Break @ Foyer			
16:00-17:30	**W4** Continued	**W5** Continued	**T9** Continued	

09:00 – 10:30   Workshop **W4:**   @ Essex
Concurrency Issues in UML
Workshop **W5:**   @ Conference F
The Constraint Language for UML 2.0
Tutorial **T4**:   @ Windsor West
Daniel Amyot & Gunter Mussbacher
"From Requirements to UML Models with
Use Case Maps"
Tutorial **T6**:   @ Windsor East
Tony Clark & Andy Evans & Stuart Kent
"Realising MDA: a Precise Meta-Modelling
Approach"

10:30 – 11:00   Nutrition break @ Essex Foyer

11:00 – 12:30   Workshop **W4** Continued   @ Essex
Workshop **W5** Continued   @ Conference F
Tutorial **T4** Continued   @ Windsor West
Tutorial **T6** Continued   @ Windsor East

12:30 – 14:00   Lunch @ Conference D + E

14:00 – 15:30   Workshop **W4** Continued   @ Essex
Workshop **W5** Continued   @ Conference F
Tutorial **T9:**   @ Windsor West
Chris Raistrick & Ian Wilkie
"Executable UML (xUML): An Interactive
Tutorial"

15:30 – 16:00   Nutrition break @ Essex Foyer

16:00 – 17:30   Workshop **W4** Continued   @ Essex
Workshop **W5** Continued   @ Conference F
Tutorial **T9** Continued   @ Windsor West

Wednesday at a Glance	
08:45-10:00	@ Essex Welcome and opening remarks, followed by: Keynote address: Dr. James Rumbaugh "**The Preacher at Arrakeen**"
10:00-10:30	Nutrition Break @ Essex Foyer

	@ Essex	@ Windsor
10:30-12:00	Papers P1: Metamodeling	Papers P2: Activity Diagrmas

12:00-13:00	Lunch @ Long Bar
13:00-14:00	@ Essex Panel: "**Formal Semantics for UML: Why? How? For Whom? **"

	@ Essex	@ Windsor
14:00-15:30	Papers P3: OCL	Papers P4: Architecture and Patterns

15:30-16:00	Nutrition Break @ Essex Foyer

	@ Essex	@ Windsor
16:00-17:00	Papers P5: Analysis and Testing	Papers P6: Performance and Databases

18:00-19:30	**Conference Welcome Reception** @ **City Hall Room (Sheraton Hotel)**

08:45 – 09:00 **Welcome Session**   @ Essex

09:00 – 10:00 **Invited talk**
Chair: Martin Gogolla, Germany

The Preacher at Arrakeen
Dr. James Rumbaugh
Rational Software Corporation, USA

10:00 – 10:30 Nutrition break @ Essex Foyer

10:30 – 12:00 **Paper Session 1 – Metamodeling**   @ Essex
Chair: Robert France, USA

An Action Semantics for MML
Jose Maria Alvarez, Tony Clark, Andy Evans, Paul Sammut
University of Malaga / King's College / University of York

The Essence of Multilevel Metamodeling
Colin Atkinson, Thomas Kühne
University of Kaiserslautern

Mapping Between Levels in the Metamodel Architecture
Jose Maria Alvarez, Andy Evans, Paul Sammut
University of Malaga / University of York

Paper Session 2 – Activity Diagrams   @ Windsor
Chair: Jos Warmer, Netherlands

An Execution Algorithm for UML Activity Graphs
Rik Eshuis, Roel Wieringa
University of Twente

Timing Analysis of UML Activity Diagrams
Li Xuandong, Cui Meng, Pei Yu, Zhao Jianhua, Zheng Guoliang
Nanjing University

*UML Activity Diagrams as a Workflow
Specification Language*
Marlon Dumas, Arthur H.M. ter Hofstede
Queensland University of Technology

12:00 – 13:00	Lunch @ Long Bar

13:00 – 14:00   **Panel**   @ Essex
*Formal Semantics for UML: Why? How? For
whom?*
Chair: Robert France, USA
Panel Members: Perdita Stevens, Andy
Evans, Bernhard Rumpe, Haim Kilov , Alan
Wills

14:00 – 15:30   **Paper Session 3 – OCL**   @ Essex
Chair: Mark Richters, Germany

On Querying UML Data Models with OCL
D.H. Akehurst, B. Bordbar
University of Kent at Canterbury

*OCL as a Specification Language for
Business Rules in Data Base Applications*
Birgit Demuth, Heinrich Hussmann, Sten
Loecher
Dresden University of Technology

A Formal Semantics for OCL 1.4
Maria Victoria Cengarle, Alexander Knapp
Universität München

**Paper Session 4 – Architecture and
Patterns**   @Windsor
Chair: Tony Clark, United Kingdom

Refactoring UML Models
Gerson Sunyé, Damien Pollet, Yves Le
Traon, Jean-Marc Jézéquel
IRISA

*UML Support for Designing Software Systems
as a Composition of Design Patterns*
Sherif M. Yacoub, Hany H. Ammar
Hewlett-Packard Labs /
West Virginia University

*Integrating the ConcernBASE Approach with
SADL*
Valentin Crettaz, Mohamed Mancona Kandé,
Shane Sendall, Alfred Strohmeier
Swiss Federal Institute of Technology
Lausanne

15:30 – 16:00   Nutrition break @ Essex Foyer

16:00 – 17:00   **Paper Session 5 – Analysis and Testing**   @ Essex
Chair: Andy Evans, United Kingdom

*The Message Paradigm in Object-Oriented
Analysis*
Frank Devos, Eric Steegmans
K.U. Leuven

A UML-based Approach to System Testing
Lionel Briand, Yvan Labiche
Carleton University

**Paper Session 6 – Perfomance and
Databases**   @ Windsor
Chair: Jaelson Castro, Brazil

*UML Modelling and Performance Analysis of
Mobile Software Architectures*
Vincenzo Grassi, Raffaela Mirandola
Universit di Roma

*Extending UML for Object-Relational Database
Design*
E. Marcos, B. Vela, J. M. Cavero
Rey Ruan Carlos University

18:00 – 19:30   Conference Welcome Reception
@ City Hall Room (Sheraton Hotel)

Thursday at a Glance		
09:00-10:00	@ Essex Keynote address: Prof. Werner Damm **"Understanding UML - Pains and Rewards"**	
10:00-10:30	Nutrition Break @Essex Foyer	
10:30-12:00	@ Essex Papers P7: Graph Transformations	@ Windsor Papers P8: Real Time and Embedded Systems
12:00-13:00	**Lunch @ Long Bar**	
13:00-14:00	@ Essex Panel: **"UML Profiles "**	
14:00-15:30	@ Essex Papers P9: Associations and Ontology	@ Windsor Papers P10: Statecharts
15:30-16:00	Nutrition Break @Essex Foyer	
16:00-17:00	@ Essex Panel: **"UML 2.0 "**	
19:30-22:30	**Conference Banquet @ CN Tower**	

09:00 – 10:00	**Invited Talk** Chair: Cris Kobryn, USA ***Understanding UML - Pains and Rewards*** ***Prof* Werner Damm,** University ofOldenburg	@ Essex
10:00 – 10:30	Nutrition break @ Essex Foyer	
10:30 – 12:00	**Paper Session 7 – Graph Transformations** *A Formal Semantics of UML State Machines Based on Structured Graph Transformation* Sabine Kuske University of Bremen *A Visualization of OCL using Collaborations* Paolo Bottoni, Manuel Koch, Francesco Parisi-Presicce, Gabriele Taentzer Università di Roma / PSI Berlin / Technical University of Berlin *Rule-based Specification of Behavioral Consistency based on the UML Meta-Model* Gregor Engels, Reiko Heckel, Jochen M. Kuester University of Paderborn	@ Essex
	Paper Session 8 – Real-time and Embedded Systems Chair: Alfred Strohmeier, Switzerland *A New UML Profile for Real-time System Formal Design and Validation* L. Apvrille, P. de Saqui-Sannes, C. Lohr, P. Senac, J.-P. Courtiat ENSICA / LAAS-CNRS / Alcatel Space Industries	@ Windsor

Representing Embedded System Sequence Diagrams As A Formal Language
Elizabeth Latronico, Philip Koopman
Carnegie Mellon University

Scenario-Based Monitoring and Testing of Real-time UML Models
Marc Lettrari, Jochen Klose
FFIS / University of Oldenburg

12:00 – 13:00   Lunch @ Long Bar

13:00 – 14:00   **Panel**   @ Essex
E Unum Pluribus? The Pros and Cons of UML Profiles
Chair: Bran Selic, Canada
Panel Members: Cris Kobryn, Colin Atkinson, Philippe Desfray , Stuart Kent

14:00 – 15:30   **Paper Session 9 – Associations and Ontology**   @ Essex
Chair: Henrich Hussmann, Germany

Semantics of the Minimum Multiplicity in Ternary Associations in UML
Gonzalo Genova, Juan Llorenz, Paloma Martinez
Carlos III University of Madrid

Extending UML to Support Ontology Engineering for the Semantic Web
Kenneth Baclawski, Mieczyslaw M. Kokar, Paul A. Kogut, Lewis Hart, Jeffrey Smith, William S. Holmes III, Jerzy Letkowski, Michael L. Aronson
Northeastern University /
Lockheed Martin Management and Data Systems /
GRC International / Mercury Computer /
Western New England College

On associations in the Unified Modelling Language
Perdita Stevens
University of Edinburgh

Paper Session 10 – Statecharts   @ Windsor
Chair: Jean-Marc Jezequel, France

iState: A Statechart Translator
Emil Sekerinski, Rafik Zurob
McMaster University

Specifying Concurrent System Behavior and Timing Constraints Using OCL and UML
Shane Sendall, Alfred Strohmeier
Swiss Federal Institute of Technology Lausanne

Formalization of UML-Statecharts
Michael von der Beeck
BMW Group

15:30 – 16:00   Nutrition break @ Essex Foyer

16:00 – 17:00   **Panel**   @ Essex
UML 2.0
Chair: Cris Kobryn
Painel Member: Stewart Kent, Joaquin Miller, Bran Selic, Kerry Raymond, Jos Warmer

19:30 – 22:30   Conference Banquet @ CN Tower

Friday at a Glance	
09:00-10:00	@ Essex Keynote address: Prof. John Mylopoulos **"UML for Agent-Oriented Software Development: The Tropos Proposal"**
10:00-10:30	Nutrition Break @Essex Foyer
10:30-11:30	@ Essex Papers P11: Components / @ Windsor Papers P12: Use Cases
11:30-12:30	@ Essex Panel: **"Visual Modeling beyond UML "**
12:30-12:45	@ Essex **Closing Session**
12:45-14:00	**Lunch @ Long Bar**
14:00	**End of <<UML>>2001**

09:00 – 10:00　**Invited talk**　　　　　　　　@ Essex
Chair: Bran Selic, Canada

UML for Agent-Oriented Software Development: The Tropos Proposal
John Mylopoulos
University of Toronto

10:00 – 10:30　Nutrition break @ Essex Foyer

10:30 – 11:30　**Paper Session 11 – Components**　　　@ Essex
Chair: Bernhard Rumpe, Germany

An UML Meta-Model for Contract aware Components
Torben Weis, Christian Becker, Kurt Geihs, Noel Plouzeau
J. W. Goethe-University / IRISA

A Specification Model for Interface Suites
E.E. Roubtsova, L.C.M. van Gool, R. Kuiper, H.B.M. Jonkers
Faculty of Mathematics and Computing Science /
Philips Research Laboratories Eindhoven

Paper Session 12 – Use Cases　　　　@ Windsor
Chair Perdita Stevens, United Kingdom

Against Use Case Interleaving
Pierre Metz, John O´Brien, Wolfgang Weber
Cork Institute of Technology, Ireland /
Darmstadt University of Applied Sciences, Germany

Estimating Software Development Effort based on Use Cases - Experiences from Industry
Bente Anda, Hege Dreiem, Dag I.K. Sjøberg, Magne Jørgensen
University of Olso / Mogul Norway / Simula Research Laboratory

11:30 – 12:30   **Panel**   @ Essex
Visual Modelling beyond UML
Chair: Stuart Kent
Panel Members: Corin Gurr, Alan Wills, Gregor Engels, John Mylopoulos, Scott Ambler

12:30 – 12:45   Closing Session @ Essex

12:45   Lunch @ Long Bar

14:00   End of conference

W3: Practical UML-Based Rigorous Development Methods - Countering or Integrating the eXtremists?

Organizers:
   Andy Evans (University of York, UK)
   Robert France (Colorado State University, USA)
   Ana Moreira (Universidade Nova de Lisboa, Portugal)
   Bernhard Rumpe (Technische Universitat Munchen, Germany)

W4: Concurrency Issues in UML

Organizers:
   Colin Atkinson (Fraunhofer IESE, Germany)
   Bruce Douglass (I-Logix, USA)
   Sébastien Gérard (CEA-LIST, France)
   Alan Moore (ARTiSAN, UK)
   Ileana Ober (Telelogic, France)
   Bran Selic (Rational, Canada)
   François Terrier (CEA-LIST, France)

W5: The Constraint Language for UML 2.0

Organizers:
   Tony Clark (King's College, UK)
   Jos Warmer (Klasse Objekten, Netherlands)
   Jonas Hogstrom (Boldsoft, Sweden)

Tutorial 1

Describing Software Architecture with the UML (Monday Morning)
Instructors:
 Bran Selic (Rational, Canada)
 Wojtek Kozaczynski (Rational, Canada)

The presence of a solid architectural vision is a key discriminator in the success or failure of a software project. This tutorial examines what software architecture is and what it is not. It discusses and illustrates how to describe architecture through a set of design viewpoints and views and how to express these views in the UML, in the spirit of the new IEEE Standard 1471:2000: *recommended practice for architectural description*. The tutorial shows how architectures drive the development process and how to capture architectural design patterns using the UML. It is illustrated by several widely applicable architectural patterns in different domains.

Tutorial T3

A Revolution in UML Tool Use? Tool Adaptation, Extension and Integration using XMI
Instructor:
 Perdita Stevens (University of Edinburgh, UK)

One of the main benefits of a unified modeling language is that it enables competition between tool vendors and allows users a wide choice of tools. Getting the most out of a tool - which is often a significant investment - means using it as more than a fancy drawing tool. It needs to fit productively into the user's software development lifecycle and indeed lifestyle.

This tutorial will discuss easy and cost-effective ways for developers to make better use of modeling tools using XMI. XMI is well known as a vendor-independent format for saving and loading UML models. What's less well known is that this technology can also make it easier than might be imagined to integrate a UML tool with other in-house or third-party tools, and even to write quick add-ons for particular tasks. We'll consider the possibilities and limitations and discuss the effect this may have on the uses of UML tools in future.

At the end of this tutorial, participants will:

- ✓ have gained a clear overview understanding of the OMG technologies XMI, MOF and UML, including how they fit together and their relevance for tool adaptation and integration
- ✓ be able to develop effective small-scale tools making use of XMI
- ✓ have considered, with help from me and other participants, the broader issues of tool integration and adaptation, and be better placed to make good decisions about these issues in their own work contexts.

Tutorial T4

From Requirements to UML Models with Use Case Maps (UCMs)
Instructors:
        Daniel Amyot (Mitel Networks, Canada)
        Gunter Mussbacher (Mitel Networks, Canada)

Two important aspects of future software engineering techniques will be the ability to seamlessly move from analysis models to design models and the ability to model dynamic systems where scenarios and structures may change at run-time. Use Case Maps (UCMs) are a scenario-based software engineering technique that addresses these aspects. UCMs are used as a visual notation for describing causal relationships between responsibilities of one or more use cases. A map-like diagram shows related use cases, and the progression of scenarios along use cases.

In this tutorial we intend to discuss Use Case Maps (UCMs) concepts, the UCM notation, and how UCMs fit into the software development process. The tutorial will show how UCMs address functional requirements expressed in use cases, effectively refining (or replacing) use case diagrams and activity diagrams at the system level. The tutorial will also discuss UCMs in the context of performance analysis as well as high-level design (including derivation of class diagrams and interaction diagrams from UCMs) and testing. The tutorial will include exercises for the participants and a brief demonstration of the freely available UCM Navigator tool.

Tutorial T6

Realising MDA: a Precise Meta-Modelling Approach
Instructors:
        Tony Clark (King's College, UK)
        Andy Evans (University of Yor, UK)
        Stuart Kent (University of Canterbury, UK)

Many of the challenges raised by MDA are really challenges for language engineering. How can we define languages in a detailed and precise enough way to support automated tool generation? How can we architect and manage definitions of families of languages, for example different domain-specific flavours of PIM langauges, different profiles of UML? How do we define translations between languages and transformations between models? How do we define different aspects of a language, including semantics? And so on.

This tutorial provides answers to some of these questions. Specifically, it describes a metamodeling approach, which combines object modeling with templates and a powerful extension and merging mechanism to provide consistently architected and complete definitions of languages and translations between languages. Examples used to illustrate the approach include excerpts from the 2U (Unambiguous UML) submission to the UML 2.0 Infrastructure RFP. The use of the approach in defining mappings, such as language translations, will also be examined.

The tutorial will include a demonstration of a tool which is being developed to support the approach. The tool not only provides support for the checking and validation of metamodels, but is also able to interpret those metamodels to support modeling in the languages so-defined. Both aspects will be demonstrated.

Executable UML (xUML): An Interactive Tutorial
Instructors:
  Chris Raistrick (Kennedy-Carter, UK)
  Ian Wilkie (Kennedy-Carter, UK)

The UML provides many ways of representing aspects of software and systems. Some of the notations provide alternative ways of representing the same concepts with a different emphasis. Users of the UML have to select which elements to use and to decide how to use them. In addition, not all aspects of the UML are fully defined, for example what is the behaviour implied by a return action? Executable UML (xUML) seeks to define, precisely, the execution semantics of the relevant elements of the UML.

The objectives of the tutorial are:

  ✓ To help delegates understand the implications of using xUML and its applicability to them;
  ✓ To demonstrate the xUML development process;
  ✓ To provide the delegates with the opportunity to interact with an experienced xUML practitioner.

This tutorial will explain the principal features of Executable UML (xUML), provide concrete examples of how it has been used on real projects, and outline the business benefits that it can deliver. It will provide an up to date report on the status of the OMG Action Semantic initiative.

Tutorial and Workshop Reception

Monday, October 1, 2001
6:00 pm – 7:30 pm
@ Long Bar (Sheraton Centre Hotel)

Conference Welcome Reception

Wednesday, October 3, 2001
6:00 pm – 7:30 pm
@ City Hall Room (Sheraton Centre Hotel)
Sponsored by Rational Software Corporation

Conference Banquet

Thursday, October 4, 2001
7:30 pm – 10:30 pm
@ 360 The Restaurant at the Tower (CN Tower)
Sponsored by Telelogic

The CN Tower is situated on Front Street which is located in the Heart of the Entertainment District near Union Station.

Buses will be available for transportation. They leave at 7.15 pm (1st service) and 7.45 pm (2nd service). They return at 10.20 pm (1st service) and 10.50 pm (2nd service).

Internet Café

You are welcome to visit the <<UML>>2001 Internet Café, which provide a central zone for meetings, discussions, and collaboration. Read your email and visit interesting URLs.

@ Peel (Sheraton Centre Hotel)
Schedule:
Monday   12:00 am - 6:00 pm
Tuesday – Thursday 09:00 am - 6:00 pm
Friday   09:00 am - 12:00 am

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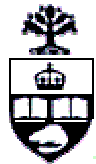## Corporate Donors Platinum

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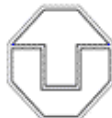**www.rational.com**

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