



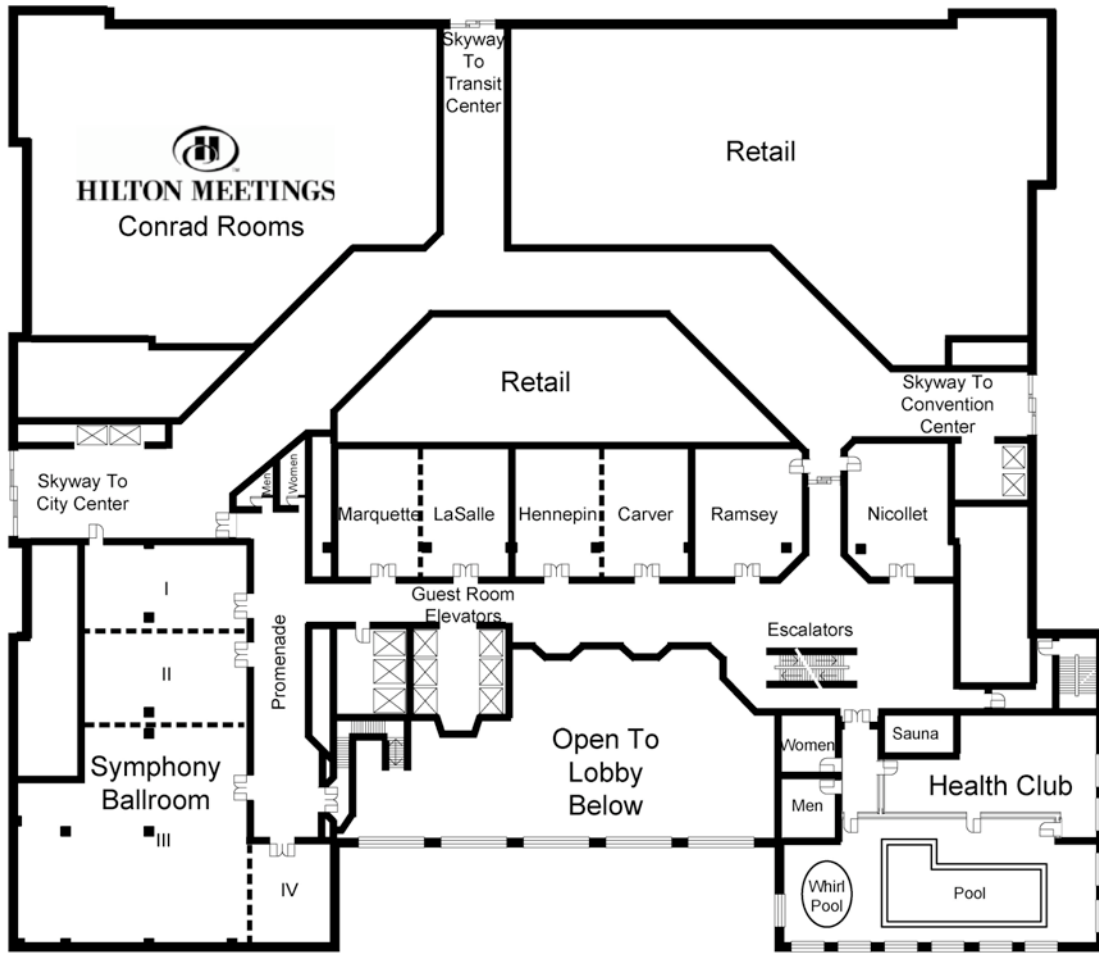
# Conference Program



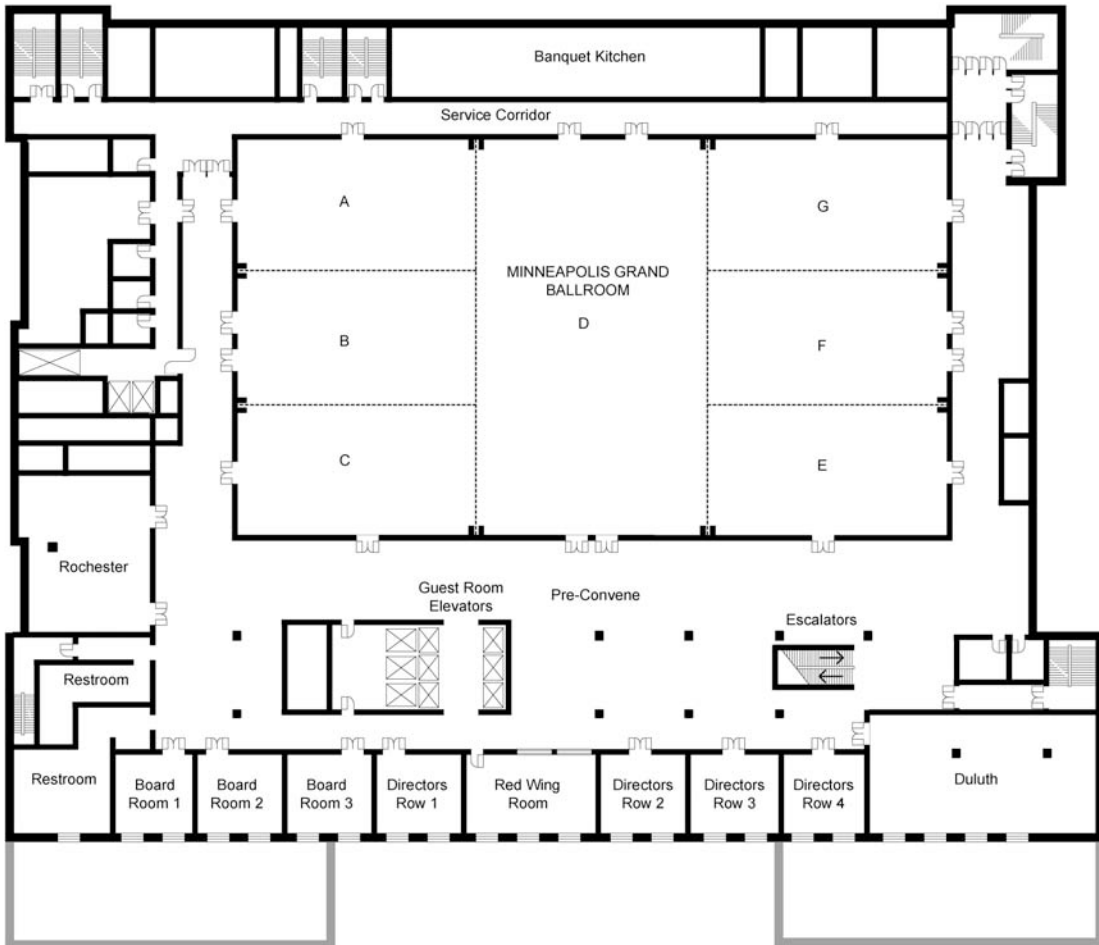
**29**TH INTERNATIONAL  
CONFERENCE ON  
**SOFTWARE  
ENGINEERING**

20-26 May 2007

Second Floor



Third Floor



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# Welcome to ICSE 2007



On behalf of the entire organizing committee, I welcome you to the 29th International Conference on Software Engineering. The theme of ICSE 2007 is “Developing Dependable Software”, with which we acknowledge the increasingly crucial role that the engineering of software plays in business, healthcare, government and society at-large.

For ICSE 2007, we have created a comprehensive and varied program, including a wide variety of workshops, tutorials and collocated events, in addition to the main ICSE conference. Co-located events include the International Conference on Software Process, a symposium dedicated to recognizing the contributions of Professor Barry Boehm, a symposium for presentation of the work of doctoral students, and a day-long seminar for new faculty to introduce them to the details of the academic profession.

Each day of the main conference begins with a keynote presentation by a leading expert in an area of software engineering. The keynote on Wednesday, by Steve Fisher from salesforce.com, provides details about the engineering of a major Web application. The Thursday keynote, by Professor Deborah Johnson of the University of Virginia, discusses the ethical challenges that we face in the software engineering field. Professor Bev Littlewood of City University in London presents the keynote on Friday, and he reviews the issues involved in assessing the dependability properties of software. Following the keynotes each day, the conference includes parallel tracks on research, education, research demonstrations, and experience reports.

With ICSE 2007 we introduce a new type of program element: “Portraits in Practice”. The goal of these sessions is to promote a focused dialog between practitioners and researchers so that each can learn from the other. This dialog will allow researchers to gain insights about the challenges that practitioners face, and it will allow practitioners to acquire a more comprehensive view of current research. We hope that these sessions will kindle a continuing interaction between researchers and practitioners.

Software engineering faces many challenges and these are discussed in the conference track on the “Future of Software Engineering”. This track features 25 presentations by leading experts, and it provides a comprehensive picture of what can be expected in the software engineering field in the near future.

The software engineering community can take great pride in the contributions that research has made to the practice of software engineering. The NSF-funded “Software Engineering Impact Project” is underway to determine the impact that research has had, and three panel presentations in the program provide an update on the state of this determination.

Research in software engineering is supported for the most part by funding agencies such as the National Science Foundation in the United States. Two conference sessions provide the community with an opportunity to learn about the plans and expectations of funding agencies from a number of countries.

Minneapolis is a major high technology area and the home of a large software industry. Minneapolis offers many opportunities for recreation including nearby lakes, the Mississippi river, many parks, and other natural areas. The city also offers many fine restaurants, shopping centers, museums, theaters and the nearby Mall of America. I encourage you to take advantage of all the opportunities that the city and the region have to offer.

Once again, on behalf of the entire organizing committee, I wish you an enjoyable and fruitful experience at ICSE 2007.

John Knight  
General Chair, ICSE 2007

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Image courtesy of Kevin Sullivan

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Wilhelm Schäfer, University of Paderborn, Germany  
Mary Shaw, Carnegie Mellon University, USA

In addition, we thank the many other people, too numerous to name, who assisted with the review process for ICSE-2007.

## Keynote Speakers



### Steve Fisher

Senior Vice President of AppExchange,  
Salesforce.com

*The Architecture of the Apex Platform,  
salesforce.com's Platform for Building  
On-Demand Applications*

On-demand computing has transformed enterprise software, lowering risk and cost while increasing user adoption and customer success. To be successful, an application must be designed for on-demand from the ground-up, including core architectural elements such as multi-tenancy, availability, performance, security, metadata-driven customization, integration via web services, etc. As with any new paradigm, initial applications must design and implement all these core attributes, but ultimately platforms emerge that encapsulate core computing services, allowing application developers to focus on innovation and value, and not on reinventing the wheel. With the Apex platform, salesforce.com has delivered the first on-demand platform, allowing developers to easily develop and deliver the next generation of on-demand applications. In this talk, Steve Fisher discusses the technical architecture of the Apex platform.

### Biography

Steve Fisher is senior vice president of AppExchange at salesforce.com. In this role Fisher leads the team responsible for building the business for AppExchange, salesforce.com's Web-based platform for business applications. Fisher is also chairman of salesforce.com's Technology Architecture Committee, which defines and ensures the integrity of the architecture for the salesforce.com service. With more than 16 years in the technology industry, Fisher has held positions with Apple Computer and AT&T Labs, where he served on the team responsible for architecting AT&T's VoIP and utility computing strategies. Fisher also founded NotifyMe Networks, an interactive voice-alerting platform application service provider and served as the company's first CEO. He has been named an inventor on 14 patents. Fisher graduated with a BS degree in Mathematical and Computational Science and an MS in Computer Science from Stanford University.



### Deborah G. Johnson

Olsson Professor of Applied Ethics &  
Chair, Department of Science,  
Technology and Society, University of  
Virginia

*Computer Professional Ethics in  
Theory and in Practice*

The starting place for professional ethics is with the idea that certain occupational groups have special expertise that leads to special responsibilities. The organization of the group into a profession with an organization that controls admission and promulgates a code of ethics is a mechanism for ensuring that the special expertise of members is deployed in ways that benefit the public (consumers, users, non-experts) or, at least, does not harm the public. Professional ethics involves both issues and responsibilities that fall to the profession as a collective unit, and issues and responsibilities that are a matter of individual behavior. Codes of conduct straddle this distinction for they are a collective expression of standards for individual

behavior. Codes of conduct are not, however, the be all and end all of professional ethics. Professions create a culture of responsible conduct, a culture that embraces values such as safety, reliability, elegance, etc. Professions create the culture of the profession through a variety of activities, including codes of conduct, accreditation standards for programs, ethics committees, hotlines, etc. In the case of computing the arguments for a strongly differentiated, organized profession that takes responsibility for creating a culture that addresses the quality of computing products and services available to the public is compelling. Computing is a critical component of our society (and other information societies) and citizens and consumers do not, and cannot be expected to, understand the computing on which they depend for vital life functions. They have no choice but to trust computer professionals. The major question that computer scientists must ask, then, is whether the field is organized so as to be worthy of the trust of the public. As an occupational group, computing has difficulty fitting itself into the paradigm of professions for several reasons. The field is diverse; loosely organized; and, there is a fuzzy relationship between academics and practitioners. Like many of the fields of engineering, computer science manages a tension between seeing itself as a profession and seeing itself as a group of individual agents working in the marketplace. The tension expresses itself in many forms. Computer scientists are evaluated by the criteria of computer science – by standards of quality, elegance, creativity – as well as by the criteria of the marketplace – what can reach the marketplace quickly and do the job adequately for the time being. The tension cannot be resolved; it must be acknowledged and managed. While strategies used by other professions can be adopted, computing poses special challenges that call for more than standard approaches.

### Biography

Deborah G. Johnson is the Anne Shirley Carter Olsson Professor of Applied Ethics and Chair of the Department of Science, Technology, and Society in the School of Engineering and Applied Sciences of the University of Virginia. Professor Johnson received the John Barwise prize from the American Philosophical Association in 2004; the Sterling Olmsted Award from the Liberal Education Division of the American Society for Engineering Education in 2001; and the ACM SIGCAS Making a Difference Award in 2000.

Professor Johnson is the author/editor of four books: *Computer Ethics* (Prentice Hall, 1st edition 1984; second edition 1994; third edition, 2001); *Computers, Ethics, and Social Values* (co-edited with Helen Nissenbaum, Prentice Hall, 1995); *Ethical Issues in Engineering* (Prentice Hall, 1991); and *Ethical Issues in the Use of Computers* (co-edited with John Snapper, Wadsworth Publishing Co., 1985). Two new books are now in press. She has published over 50 papers in a variety of journals and edited volumes. She co-edits the journal, *Ethics and Information Technology* and co-edits a book series on *Women, Gender, and Technology* for University of Illinois Press. Active in professional organizations, Professor Johnson has served as President of the Society for Philosophy and Technology, President of the International Society for Ethics and Information Technology (INSEIT), Treasurer of the ACM Special Interest Group on Computers and Society, and Chair of the American Philosophical Association Committee on Computers and Philosophy. Currently she serves on the Executive Board of the Association for Practical and Professional Ethics.



## Bev Littlewood

Professor of Software Engineering,  
Centre for Software Reliability,  
City University, London

*Limits To Dependability Assurance - A  
Controversy Revisited*

More than twenty years ago, as computers were introduced into safety-critical roles in civil aircraft, there was much debate about what claims could be made for their dependability. Much of the debate focused, naturally enough, on what could be claimed for the reliability of software. A famous example was the apparent need to claim a probability of failure of less than  $10^{-9}$  per hour for some flight-critical avionics. Several authors (I was one) demonstrated that such claims were several orders of magnitude beyond what could be supported with scientific rigour. In this talk I shall revisit this debate, showing some advances that have been made in 'dependability cases', particularly involving formal notions of 'confidence' in dependability claims. However, I shall also show that the bottom line has not changed significantly: although some systems have been shown to have extremely high dependability – *after the fact* – (i.e. in extensive operational use), it still remains impossible to show – *before using it* – that a system will be extremely dependable in operation. The reason is an unforgiving law about the extensiveness of evidence needed to make very strong dependability claims. These limits to assurance should be of interest beyond the technical community: for example, they pose difficult questions for society in estimating the risks associated with the deployment of certain novel systems.

## Biography

Bev Littlewood has degrees in mathematics and statistics, and a PhD in statistics and computer science. He founded the Centre for Software Reliability at City University, London, in 1983 and was its Director from then until 2003. He is currently Professor of Software Engineering at City University.

Bev has worked for many years on problems associated with the modelling and evaluation of dependability of software-based systems, and has published many papers in international journals and conference proceedings and has edited several books. He is a member of IFIP Working Group 10.4 on Reliable Computing and Fault Tolerance, of the BCS Safety-Critical Systems Task Force, of the UK Computing Research Committee; from 1990 to 2005 he was a member of the UK Nuclear Safety Advisory Committee. He is currently serving his second term as Associate Editor of the IEEE Transactions on Software Engineering, and is on the editorial boards of several other international journals. He is a Fellow of the Royal Statistical Society.

## Awards

On behalf of the entire ICSE community, we congratulate the following award recipients. *Note: All awards ceremonies are plenary sessions in Salon D.*

### Most Influential Paper Award - ICSE 1997 Thursday May 24th, 4:00PM

*Designing Distributed Applications with Mobile Code Paradigms*

Antonio Carzaniga, Gian Pietro Picco, Giovanni Vigna

### ACM SIGSOFT Distinguished Paper Awards – ICSE 2007

Thursday May 24, 4:00PM (*Awards presentation only. Papers will be presented in the research paper track*)

*Tracking Code Clones in Evolving Software*

Ekwa Duala-Ekoko, Martin P. Robillard

*Predicting Faults from Cached History*

Sunghum Kim, Thomas Zimmermann,

E. James Whitehead Jr., Andreas Zeller

*Matching and Merging of Statecharts Specifications*

Shiva Nejati, Mehrdad Sabetzadeh, Marsha Chechik,

Steve Easterbrook, Pamela Zave

*Refactoring for Parameterizing Java Classes*

Adam Kiezun, Michael D. Ernst, Frank Tip,

Robert M. Fuhrer

### ACM SIGSOFT Outstanding Research Award Wednesday May 23, 8:30AM

Elaine J. Weyuker, AT&T Labs - Research

### ACM SIGSOFT Distinguished Service Award Thursday May 24, 9:00AM

David Notkin, University of Washington

### ACM SIGBED/SIGSOFT Frank Anger Memorial Award

Thursday May 24, 9:00AM

Recipient To Be Announced

### ACM Fellows

Thursday May 24, 9:00AM

Alexander L. Wolf, Imperial College

Matthias Felleisen, Northeastern University

### IEEE Computer Society Harlan D. Mills Award

Friday May 25, 9:00AM

Bev Littlewood, City University, London

### IEEE-CS Fellows

Friday May 25, 9:00AM

Recipients To Be Announced



# WEDNESDAY MAY 23

**8:30 AM – 9:00 AM**

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## Opening Ceremony

Room: Salon D

**9:00 AM – 10:30 AM**

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## Keynote Address: Steve Fisher

*The Architecture of the Apex Platform, salesforce.com's Platform for Building On-Demand Applications*

Room: Salon D

**10:30 AM – 11:00 AM**

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## Break

**11:00 AM – 12:30 PM**

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## Research Papers: Program Analysis I

Room: Salon F

Session Chair: Atanas Rountev

*Parallel Randomized State-space Search*

Matthew B. Dwyer, Sebastian Elbaum, Suzette Person, Rahul Purandare

*Sequential Circuits for Relational Analysis*

Fadi Zaraket, Adnan Aziz, Sarfraz Khurshid

*A Sound Assertion Semantics for the Dependable Systems Evolution Verifying Compiler*

Patrice Chalin

## Research Papers: Models

Room: Salon E

Session Chair: Tetsuo Tamai

*Behaviour Model Synthesis from Properties and Scenarios*

Sebastian Uchitel, Greg Brunet, Marsha Chechik

*Feature Oriented Model Driven Development: A Case Study for Portlets*

Salvador Trujillo, Don Batory, Oscar Diaz

*Matching and Merging of Statecharts Specifications (SIGSOFT Distinguished Paper)*

Shiva Nejati, Mehrdad Sabetzadeh, Marsha Chechik, Steve Easterbrook, Pamela Zave

## Future of Software Engineering I

Room: Salon G

Session Chair: Lionel Briand, Alexander Wolf

*A Future for Software Engineering?*

Leon J. Osterweil

*Improving Software Practice through Education: Challenges and Future Trends*

Timothy C. Lethbridge, Jorge Diaz-Herrera, Richard J. LeBlanc Jr., J. Barrie Thompson

*Research Collaborations between Industry and Academia*

Dieter Rombach, Reinhold Achatz

## Experience Reports: Agile Methods and Software Design

Room: Hennepin/Carver

Session Chairs: Frank Maurer, Michael Hirsch

*An Empirical Study of the Evolution of an Agile-Developed Software System*

Andrea Capiluppi, Juan Fernandez-Ramil, Julian Higman, Helen C Sharp, Neil Smith

*Agility and Experimentation: Practical Techniques for Resolving Architectural Tradeoffs*

T.C. Nicholas Graham, Rick Kazman, Chris Walmsley

*Usability Implications of Requiring Parameters in Objects' Constructors*

Jeffrey Stylos, Steven Clarke

## Portraits in Practice: Enterprise Architecture for Legal-Research Publishing at Thomson West

Room: Duluth

Session Chair: Martin Feather

Speakers: Mick Atton, Dave Hendricksen, Bob Sturm

**12:30 PM – 2:30 PM**

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## Lunch

Room: Salons A B and C

## Food for Thought: Retrospectives on Peopeware

Room: Salon D

Panel Chair: Steven Fraser

Panelists: Barry Boehm, Fred Brooks Jr., Tom DeMarco, Tim Lister, Linda Rising, Ed Yourdon

**2:30 PM – 4:00 PM**

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## Research Papers: Testing I

Room: Salon F

Session Chair: Giovanni Denaro

*Regression Test Selection for AspectJ Software*

Guoqing Xu, Atanas Rountev

*Feedback-directed Random Test Generation*

Carlos Pacheco, Shuvendu K. Lahiri, Michael Ernst, Thomas Ball

*Compatibility and Regression Testing of COTS Component-based Software*

Leonardo Mariani, Sofia Papagiannakis, Mauro Pezzè

## Research Papers: Clone Detection and Removal

Room: Salon E

Session Chair: Harald Gall

*DECKARD: Scalable and Accurate Tree-based Detection of Code Clones*

Lingxiao Jiang, Ghassan Mishherghi, Zhendong Su, Stéphane Gloudu

*Very-Large Scale Code Clone Analysis and Visualization of Open Source Programs Using Distributed CCFinder: D-CCFinder*

Simone Livieri, Yoshiki Higo, Makoto Matushita, Katsuro Inoue

*Using Server Pages to Unify Clones in Web Applications: A Trade-off Analysis*

Damith C. Rajapakse, Stan Jarzabek

## Future of Software Engineering II

Room: Salon G

Session Chair: Lionel Briand, Alexander Wolf

*Model-driven Development of Complex Systems: A Research Roadmap*

Robert France, Bernhard Rumpe

*Software Engineering for Automotive Systems: A Roadmap*  
Alexander Pretschner, Manfred Broy, Ingolf H. Krüger,  
Thomas Stauner

*The Challenges of Building Advanced Mechatronic Systems*  
Wilhelm Schäfer, Heike Wehrheim

### **Education Papers: Pedagogy**

**Room:** Marquette/Lasalle

**Session Chair:** Andreas Zeller

*A Constructivist Approach to Teaching Software Processes*  
Jayakanth Srinivasan, Kristina Lundqvist

*Using Experiments in Software Engineering as an Auxiliary  
Tool for Teaching – A Qualitative Evaluation from the  
Perspective of Students’ Learning Process*  
Miroslaw Staron

*On the Impact of a Collaborative Pedagogy on African  
American Millennial Students in Software Engineering*  
Laurie Williams, Lucas Layman, Kelli M. Slaten,  
Sarah B. Berenson, Carolyn Seaman

### **Experience Reports: Performance and Metrics**

**Room:** Hennepin/Carver

**Session Chairs:** Jürgen Münch, John Grundy

*Performance Evaluation and Prediction for Legacy  
Information Systems*

Yan Jin, Antony Tang, Jun Han, Yan Liu

*Software Development Environments for Scientific and  
Engineering Software: A Series of Case Studies*

Jeffrey C. Carver, Richard P. Kendall, Susan E. Squires,  
Douglass E. Post

*Company-Wide Implementation of Metrics for Early Software  
Fault Detection*

Lars-Ola Damm, Lars Lundberg

### **The Impact of Software Engineering Research on Industrial Practice**

**Room:** Duluth

**Session Chair:** Leon J. Osterweil

Panelists: Alexander Wolf, Carlo Ghezzi, Jeff Kramer

### **Software Engineering Challenges – Software Services Industry Perspective**

**Room:** Rochester

Speaker: Santonu Sarkar, Infosys

**4:00 PM – 4:30 PM**

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**Break**

**4:30 PM – 6:00 PM**

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### **Research Papers: Aspect-Oriented SE**

**Room:** Salon F

**Session Chair:** Harold Ossher

*Automated Inference of Pointcuts in Aspect-Oriented  
Refactoring*

Prasanth Anbalagan, Tao Xie

*A Formal Framework for Automated Round-trip Software  
Engineering in Static Aspect Weaving and Transformations*  
Mikhail Chalabine, Christoph Kessler

*Identifying Feature Interactions in Multi-Language Aspect-  
Oriented Frameworks*

Sergei Kojarski, David H. Lorenz

### **Research Papers: Maintenance**

**Room:** Salon E

**Session Chair:** Walter Tichy

*Tracking Code Clones in Evolving Software  
(SIGSOFT Distinguished Paper)*

Ekwa Duala-Ekoko, Martin P. Robillard

*Do Maintainers Utilize Deployed Design Patterns Effectively?*

T. H. Ng, S. C. Cheung, W. K. Chan, Y. T. Yu

*OPIUM: Optimal Package Install/Uninstall Manager*

Chris Tucker, David Shuffelton, Ranjit Jhala, Sorin Lerner

### **Future of Software Engineering III**

**Room:** Salon G

**Session Chair:** Lionel Briand, Alexander Wolf

*Software Testing Research: Achievements, Challenges, Dreams*  
Antonia Bertolino

*Source Code Analysis: A Road Map*

David Binkley

*Formal Software Analysis: Emerging Trends in Software  
Model Checking*

Matthew B. Dwyer, John Hatcliff, Robby,

Corina S. Păsăreanu, Willem Visser

### **Education Papers: Curricula & Course Design I**

**Room:** Marquette/Lasalle

**Session Chair:** Claudia Werner

*Bug Hunt: Making Early Software Testing Lessons Engaging  
and Affordable*

Sebastian Elbaum, Suzette Person, Jon Dokulil, Matt Jorde

*Good practices for Educational Software Engineering Projects*

Louwarnoud van der Duim, Jesper Andersson,

Marco Sinnema

*Top SE: Educating Superarchitects Who Can Apply Software  
Engineering Tools to Practical Development in Japan*

Shinichi Honiden, Yasuyuki Tahara, Nobukazu Yoshioka,

Kenji Taguchi, Hironori Washizaki

### **Experience Reports: Modeling**

**Room:** Hennepin/Carver

**Session Chairs:** Mikio Aoyama, Michael Hirsch

*Applying Template Meta-programming Techniques for a  
Domain Specific Visual Language - An Industrial Experience  
Report*

Mika Karaila, Tarja Systä

*Model-Based Security Engineering of Distributed Information  
Systems Using UMLsec*

Bastian Best, Jan Jürjens, Bashar Nuseibeh

*Reconceptualizing a Family of Heterogeneous Embedded  
Systems via Explicit Architectural Support*

Sam Malek, Chiyoung Seo, Sharmila Ravula, Brad Petrus,

Nenad Medvidovic

### **NSF US SE Investigators Session**

**Room:** Duluth

**Session Chair:** Sol J. Greenspan

## THURSDAY MAY 24

9:00 AM – 10:30 AM

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### Keynote Address: Deborah Johnson

*Computer Professional Ethics in Theory and in Practice*

Room: Salon D

10:30 AM – 11:00 AM

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### Break

11:00 AM – 12:30 PM

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### Research Papers: Software Architecture

Room: Salon F

Session Chair: S.C. Cheung

*Modeling Product Line Architectures through Change Sets and Relationships*

Scott A. Hendrickson, André van der Hoek

*On Accurate Automatic Verification of Publish-Subscribe Architectures*

Luciano Baresi, Carlo Ghezzi, Luca Mottola

*Supporting Heterogeneous Architecture Descriptions in an Extensible Toolset*

Matthieu Leclercq, Ali Erdem Özcan, Vivien Quéma, Jean-Bernard Stefani

### Research Papers: Program Analysis II

Room: Salon E

Session Chair: Jo Atlee

*Adaptive Online Program Analysis*

Matthew B. Dwyer, Alex Kinneer, Sebastian Elbaum

*Exception Chain Analysis: Revealing Exception Handling Architecture in Java Server Applications*

Chen Fu, Barbara G. Ryder

*Path-Sensitive Inference of Function Precedence Protocols*

Murali Krishna Ramanathan, Ananth Grama, Suresh Jagannathan

### Future of Software Engineering IV

Room: Salon G

Session Chair: Lionel Briand, Alexander Wolf

*Safety and Software Intensive Systems: Challenges Old and New*

Mats Heimdahl

*Software Reliability Engineering: A Roadmap*

Michael R. Lyu

*The Future of Software Performance Engineering*

Murray Woodside, Greg Franks, Dorina C. Petriu

### Research Demos: Software Evolution

Room: Marquette/Lasalle

Session Chair: Martin Robillard

*Spotlight: A Prototype Tool for Software Plans*

David Coppit, Robert R. Painter, Meghan Revelle

*SoQueT: Query-Based Documentation of Crosscutting Concerns*

Marius Marin, Leon Moonen, Arie van Deursen

*SoftGUESS: Visualization and Exploration of Code Clones in Context*

Eytan Adar, Miryung Kim

### Experience Reports: Testing

Room: Hennepin/Carver

Session Chairs: Hakan Erdogmus, Jürgen Münch

*'Good' Organisational Reasons for 'Bad' Software Testing: An Ethnographic Study of Testing in a Small Software Company*

David Martin, John Rooksby, Mark Rouncefield, Ian Sommerville

*Enhancing Software Testing by Judicious Use of Code Coverage Information*

Stefan Berner, Roland Weber, Rudolf K. Keller

*Randomized Differential Testing as a Prelude to Formal Verification*

Alex Groce, Gerard Holzmann, Rajeev Joshi

### Portraits in Practice: SE Practice and Research at Siemens Corporation

Room: Duluth

Session Chair: Jane Hayes

Speakers: Brian Berenbach, Juergen Kazmeier, Daniel Paulish, Marlon Vieira

12:30 PM – 2:00 PM

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### Lunch

Room: Salon D

### Food for Thought: Agile Contracts

Room: Salons A,B

Speaker: Mary Poppendieck

### Student Reception

Room: Salon C

2:00 PM – 3:30 PM

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### Research Papers: Debugging and Fault Correction

Room: Salon F

Session Chair: Margaret Burnett

*GoalDebug: A Spreadsheet Debugger for End Users*

Robin Abraham, Martin Erwig

*A Technique for Enabling and Supporting Debugging of Field Failures*

James Clause, Alessandro Orso

*POLUS: A POWERful Live Updating System*

Haibo Chen, Jie Yu, Rong Chen, Binyu Zang, Pen-Chung Yew

### Research Papers: Design I

Room: Salon E

Session Chair: Anthony Finkelstein

*Supporting Generic Sketching Based Input of Diagrams in a Domain-specific Visual Language Meta-tool*

John Grundy, John Hosking

*Fixing Inconsistencies in UML Design Models*

Alexander Egyed

*The Factory Pattern in API Design: A Usability Evaluation*

Brian Ellis, Jeffrey Stylos, Brad Myers

### Future of Software Engineering V

Room: Salon G

Session Chair: Lionel Briand, Alexander Wolf

*Global Software Engineering: The Future of Socio-technical Coordination*

James D. Herbsleb

### Wednesday at a Glance

8.30-9.00	Opening Ceremony and Awards <b>Salon D</b>			
9.00-10.30	Keynote Talk: Steve Fisher "The Architecture of the Apex Platform, salesforce.com's Platform for Building On-Demand Applications" <b>Salon D</b>			
10.30-11.00	Break			
11.00-12.30	Research Papers: Program Analysis I <b>Salon F</b>	Research Papers: Models <b>Salon E</b>	Future of Software Engineering I <b>Salon G</b>	Experience Reports: Agile Methods and Design <b>Hennepin/Carver</b>
12.30-14.30	Lunch <b>Salons A B and C</b>			
14.30-16.00	Research Papers: Testing I <b>Salon F</b>	Research Papers: Clone Detection and Removal <b>Salon E</b>	Future of Software Engineering II <b>Salon G</b>	Experience Reports: Performance and Metrics <b>Hennepin/Carver</b>
16.00-16.30	Break			
16.30-18.00	Research Papers: Aspect-oriented SE <b>Salon F</b>	Research Papers: Maintenance <b>Salon E</b>	Future of Software Engineering III <b>Salon G</b>	Experience Reports: Modeling <b>Hennepin/Carver</b>
18.00-...	Informal Demos / Posters Reception <b>Symphony Ballroom</b>			
19.30-21.00	SIGSoft Town Hall Meeting <b>Marquette/Lasalle</b>			

### Thursday at a Glance

9.00-10.30	Awards Keynote Talk: Deborah Johnson "Computer Professional Ethics in Theory and in Practice" <b>Salon D</b>			
10.30-11.00	Break			
11.00-12.30	Research Papers: Software Architecture <b>Salon F</b>	Research Papers: Program Analysis II <b>Salon E</b>	Future of Software Engineering IV <b>Salon G</b>	Demo Papers: Software Evolution <b>Marquette/Lasalle</b>
12.30-14.00	Lunch <b>Salon D</b>			
14.00-15.30	Research Papers: Debugging and fault Correction <b>Salon F</b>	Research Papers: Design I <b>Salon E</b>	Future of Software Engineering V <b>Salon G</b>	Demo Papers: Testing and Analysis <b>Marquette/Lasalle</b>
15.30-16.00	Break			
16.00-17.30	Most Influential Paper Award and Presentation and Distinguished Paper Awards <b>Salon D</b>			
17.30-18.00	Break			
18.00-...	Conference Banquet at Nicollet Island			

### Friday at a Glance

9.00-10.30	Awards Keynote Talk: Bev Littlewood "Limits To Dependability Assurance - A Controversy Revisited" <b>Salon D</b>			
10.30-11.00	Break			
11.00-12.30	Research Papers: Program Analysis III <b>Salon F</b>	Research Papers: Human Aspects in Software Development <b>Salon E</b>	Future of SE VI <b>Salon G</b>	Future of Software Engineering VII <b>Marquette/Lasalle</b>
12.30-14.00	Lunch <b>Salon C</b>			
14.00-15.30	Research Papers: Testing II <b>Salon F</b>	Research Papers: Refactoring and Resuse <b>Salon E</b>	Future of Software Engineering VIII <b>Salon G</b>	Education Papers: Evaluation <b>Marquette/Lasalle</b>
15.30-16.00	Break			
16.00-17.30	Research Papers: Security <b>Salon F</b>	Research Papers: Software Defects <b>Salon E</b>	Future of Software Engineering IX <b>Salon G</b>	Education Papers: Curricula & Course Design II <b>Marquette/Lasalle</b>
17.30-18.00	Closing Session and Awards <b>Salon D</b>			

*Some Trends in Web Application Development*  
Mehdi Jazayeri

*Collaboration in Software Engineering: A Roadmap*  
Jim Whitehead

### **Research Demos: Testing and Analysis**

**Room:** Marquette/Lasalle  
**Session Chair:** Andreas Zeller

*Kato: A Program Slicing Tool for Declarative Specifications*  
Engin Uzuncaova, Sarfraz Khurshid

*Korat: A Tool for Generating Structurally Complex Test Inputs*  
Aleksandar Milićević, Saša Misailović, Darko Marinov,  
Sarfraz Khurshid

*Crisp - A Fault Localization Tool for Java Programs*  
Ophelia C. Chesley, Xiaoxia Ren, Barbara G. Ryder,  
Frank Tip

### **Experience Reports: Software Development Processes**

**Room:** Hennepin/Carver  
**Session Chairs:** Michael Hirsch, Frank Maurer

*Can Requirements be Creative? Experiences with an Enhanced Air Space Management System*  
Neil Maiden, Cornelius Ncube, Suzanne Robertson

*Applying ISO 9001:2000, MPS.BR and CMMI to Achieve Software Process Maturity: BL Informatica's Pathway*  
Analia Irigoyen Ferreira, Gleison Santos,  
Roberta Cerqueira, Mariano Montoni, Ahilton Barreto,  
Andrea O. Soares Barreto, Ana Regina da Rocha

*Maturity Status within Front-End Support Organisations*  
Mira Kajko-Mattsson

### **The Impact of Assertion Research on Industrial Software Development**

**Room:** Duluth  
**Session Chairs:** Lori A. Clarke, David S. Rosenblum  
Panelists: James C. Browne, Gary T. Leavens,  
Bertrand Meyer, Nachi Nagappan, Sriram Sankar

### **3:30 PM – 4:00 PM**

#### **Break**

### **4:00 PM – 5:30 PM**

#### **Most Influential Paper Award – ICSE 1997**

**Room:** Salon D  
**Session Chair:** Wolfgang Emmerich  
*Designing Distributed Applications with Mobile Code Paradigms*  
Antonio Carzaniga, Gian Pietro Picco, Giovanni Vigna.

## **FRIDAY MAY 25**

### **9:00 AM – 10:30 AM**

**Keynote Address: Bev Littlewood**  
*Limits To Dependability Assurance - A Controversy Revisited*  
**Room:** Salon D

### **10:30 AM – 11:00 AM**

#### **Break**

### **11:00 AM – 12:30 PM**

#### **Research Papers: Program Analysis III**

**Room:** Salon F  
**Session Chair:** Matt Dwyer

*Overview and Evaluation of Constraint Validation Approaches in Java*

Lorenz Frohofer, Gerhard Glos, Johannes Osrael,  
Karl M. Goeschka

*Ownership and Immutability Inference for UML-Based Object Access Control*

Yin Liu, Ana Milanova

*Automatic Inference of Structural Changes for Matching Across Program Versions*

Miryung Kim, David Notkin, Dan Grossman

#### **Research Papers: Human Aspects in Software Development**

**Room:** Salon E  
**Session Chair:** Kumiyo Nakakoji

*Information Needs in Collocated Software Development Teams*  
Andrew J. Ko, Robert DeLine, Gina Venolia

*The Social Dynamics of Pair Programming*  
Jan Chong, Tom Hurlbutt

*Role Migration and Advancement Processes in OSSD Projects: A Comparative Case Study*  
Chris Jensen, Walt Scacchi

#### **Research Papers: Design II and Future of Software Engineering VI**

**Room:** Salon G  
**Session Chair:** Pankaj Jalote

[FoSE Paper] *Software Design and Architecture: The Once and Future Focus of Software Engineering*  
Richard Taylor, André van der Hoek

[Research Paper] *The Role of Experience and Ability in Comprehension Tasks supported by UML Stereotypes*  
Filippo Ricca, Massimiliano Di Penta, Marco Torchiano,  
Paolo Tonella, Mariano Ceccato

[Research Paper] *Information Hiding and Visibility in Interface Specifications*  
Gary T. Leavens, Peter Müller

#### **Future of Software Engineering VII**

**Room:** Marquette/LaSalle  
**Session Chair:** Lionel Briand, Alexander Wolf  
*A Perspective on the Future of Middleware-Based Software Engineering*  
Valerie Issarny, Mauro Caporuscio, Nikolaos Georgantas  
*Self-Managed Systems: An Architectural Challenge*  
Jeff Kramer, Jeff Magee  
*Software Deployment: Past, Present and Future*  
Alan Dearle

#### **Education Papers: Evaluation [Short Papers]**

**Room:** Marquette/Lasalle  
**Session Chair:** David Budgen  
*A Leveled Examination of Test-Driven Development Acceptance*  
David S. Janzen, Hossein Saiedian  
*Using Solomon-Felder Learning Style Index to Evaluate Pedagogical Resources for Introductory Programming Classes*  
Imran A. Zualkernan

*Design and Evaluation of a Diagrammatic Notation to Aid in the Understanding of Concurrency Concepts*

Shaohua Xie, Eileen Kraemer, R.E.K. Stirewalt

## **Research Demos: Development, Integration, and Maintenance**

**Room:** Hennepin/Carver

**Session Chair:** John Grundy

*Suade: Topology-Based Searches for Software Investigation*

Frédéric Weigand Warr, Martin P. Robillard

*SYNTHESIS: a tool for automatically assembling correct and distributed component-based systems*

Marco Autili, Paola Inverardi, Alfredo Navarra, Massimo Tivoli

*Presentations by Programmers for Programmers*

Li-Te Cheng, Michael Desmond, Margaret-Anne Storey

## **Portraits in Practice: Open-Source Software at IBM Rochester**

**Room:** Duluth

**Session Chair:** Dan Berry

Speakers: Sam Ellis, Jeffrey Scheel, Marybeth Markland, Tony Wells

## **12:30 PM – 2:00 PM**

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### **Lunch**

**Room:** Salon C

## **Food for Thought: Modeling for Maintainability**

**Room:** Salons A,B

Speaker: Andrew Watson

## **2:00 PM – 3:30 PM**

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### **Research Papers: Testing II**

**Room:** Salon F

**Session Chair:** Alex Orso

*Using GUI Run-Time State as Feedback to Generate Test Cases*

Xun Yuan, Atif M. Memon

*Automated Generation of Context-Aware Tests*

Zhimin Wang, Sebastian Elbaum, David S. Rosenblum

*Hybrid Concolic Testing*

Rupak Majumdar, Koushik Sen

### **Research Papers: Refactoring & Reuse**

**Room:** Salon E

**Session Chair:** John Grundy

*Refactoring-aware Configuration Management for Object-Oriented Programs*

Danny Dig, Kashif Manzoor, Ralph Johnson, Tien N. Nguyen

*Refactoring for Parameterizing Java Classes (SIGSOFT Distinguished Paper)*

Adam Kiezun, Michael D. Ernst, Frank Tip, Robert M. Fuhrer

*Supporting the Investigation and Planning of Pragmatic Reuse Tasks*

Reid Holmes, Robert J. Walker

## **Future of Software Engineering VIII**

**Room:** Salon G

**Session Chair:** Lionel Briand, Alexander Wolf

*Research Directions in Requirements Engineering*

Betty H.C. Cheng, Joanne M. Atlee

*Software Project Economics: A Road Map*

Martin Shepperd

*The Future of Programming Environments: Integration, Synergy, and Assistance*

Andreas Zeller

## **Education Papers: Curricula & Course Design II [Short Papers]**

**Room:** Marquette/Lasalle

**Session Chair:** André van der Hoek

*Creating a Computer Security Curriculum in a Software Engineering Program*

Bradley S. Rubin, Bhabani S. Misra

*Introducing Accessibility Requirements Through External Stakeholder Utilization in an Undergraduate Requirements Engineering Course*

Stephanie Ludi

*Bringing the Systems Analysis and Design Course into 21st Century: A Case Study in Implementing Modern Software Engineering Principles*

Christopher G. Jones

*A Template for Real World Team Projects for Highly Populated Software Engineering Classes*

Burak Turhan, Ayşe Bener

## **Research Demos: Modeling**

**Room:** Hennepin/Carver

**Session Chair:** Sebastian Uchitel

*UML/Analyzer: A Tool for the Instant Consistency Checking of UML Models*

Alexander Egyed

*Revel8or: Model Driven Capacity Planning Tool Suite*

Liming Zhu, Yan Liu, Ngoc Bao Bui, Ian Gorton

*Tool Support for Developing Advanced Mechatronic Systems: Integrating the Fujaba Real-Time Tool Suite with CAMEL-View*

Sven Burmester, Holger Giese, Stefan Henkler,

Martin Hirsch, Matthias Tichy, Alfonso Gambuzza,

Eckehard Münch, Henner Vöcking

## **The Impact of Research on Middleware Technology**

**Room:** Duluth

**Session Chairs:** Wolfgang Emmerich, Mikio Aoyama

Panelists: Francisco Curbera, Steven Reiss,

Santosh Shrivastava, Andrew Watson

## **3:30 PM – 4:00 PM**

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### **Break**

## **4:00 PM – 5:30 PM**

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### **Research Papers: Security**

**Room:** Salon F

**Session Chair:** Jens Jahnke

*Mining Security-Sensitive Operations in Legacy Code using Concept Analysis*

Vinod Ganapathy, David King, Trent Jaeger, Somesh Jha

*Managing Impacts of Security Protocol Changes in Service-Oriented Applications*

Halvard Skogsrud, Boualem Benatallah, Fabio Casati,  
Farouk Toumani

*When Role Models Have Flaws: Static Validation of Enterprise Security Policies*

Marco Pistoia, Stephen J. Fink, Robert J. Flynn,  
Eran Yahav

### **Research Papers: Software Defects**

**Room:** Salon E

**Session Chair:** Victor Braberman

*Predicting Faults from Cached History*  
(SIGSOFT Distinguished Paper)

Sunghum Kim, Thomas Zimmermann,  
E. James Whitehead Jr., Andreas Zeller

*Detection of Duplicate Defect Reports Using Natural Language Processing*

Per Runeson, Magnus Alexandersson, Oskar Nyholm

### **Future of Software Engineering IX**

**Room:** Salon G

**Session Chair:** Lionel Briand, Alexander Wolf

*New Frontiers of Reverse Engineering*

Gerardo Canfora, Massimiliano Di Penta

*The Current State and Future of Search-Based Software Engineering*

Mark Harman

*The Future of Empirical Methods in Software Engineering Research*

Dag I. K. Sjøberg, Tore Dybå, Magne Jørgensen

### **Panel: The Future of SE Research Funding**

**Room:** Duluth

**Session Chair:** Carlo Ghezzi

Panelists: Sol Greenspan, NSF, Gerrit Sonntag DfG,

Remy Chabot, NSERC, Claire Hincliff, EPSRC,

Paolo Bresciani, EU Framework VII

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## **Committee Meetings**

### **ICSE Steering Committee Meeting**

**Room:** Rochester

**Tuesday May 22, 6:30PM**

### **SIGSoft Executive Committee Meeting**

**Room:** Board Room 1

**Wednesday May 23, 12:30PM**

### **ESEC Steering Committee Meeting**

**Room:** Board Room 1

**Wednesday May 23, 6:00PM**

### **Editorial Board Meeting of Empirical Software Engineering Journal**

**Meeting point:** Springer Exhibit

**Wednesday May 23, 6:00PM**

### **TSE Board Meeting**

**Room:** Board Room 2

**Wednesday May 23, 6:30PM**

### **SigSoft Town Hall Meeting**

**Room:** Marquette/Lasalle

**Wednesday May 23, 7:30PM**

### **ICSE 2008 Organizers Committee Meeting**

**Room:** Board Room 2

**Thursday May 24, 12:30PM**

### **TOSEM Editorial Board Meeting**

**Room:** Board Room 1

**Thursday May 24, 12:30PM**

### **ICSE 2008 Program Committee Meeting**

**Room:** Board Room 1

**Friday May 25, 12:30PM**

### **ICSE 2007 Post Mortem Meeting**

**Room:** Symphony IV

**Saturday May 26, 9:00AM**

## **ICSE 2007 Exhibitors**

**Auerbach Publications**

**Cambridge University Press**

**Elsevier**

**InfoSys**

**John Wiley & Sons, Ltd**

**Semmler Ltd.**

**Springer**

**Tech Excel**

## **Speaker's Facilities**

### **ICSE 2007 Speakers' Breakfast**

**Room:** Rochester

**Wednesday 7:30-8:30 am**

**Thursday 8:00-9:00 am**

**Friday 8:00-9:00 am**

*Session chairs shall meet their presenters for breakfast at the speakers' breakfast on the day of their session.*

### **Speakers' Ready Room**

**Room:** Board Room 3

**Times:** Tuesday evening and during the day on

**Wednesday, Thursday, and Friday of the conference**

*Available for speakers to prepare presentations and make sure that the presentation works with the equipment provided in the actual meeting rooms.*

## Workshops, Tutorials and Co-located Events at a Glance

Sat May 19		Sun May 20		Monday May 21		Tue May 22		Sat May 26	Sun May 27
AM	PM	AM	PM	AM	PM	AM	PM		
(W1) Mining Software Repositories (MSR) <b>Marquette</b>		(W12) Aerospace SE (AeroSE) <b>Conrad A</b>						(W22) SE for Adaptive and Self-Managing Systems (SEAMS) <b>Symphony II</b>	
(W2) SHARing and Reusing architectural Knowledge (SHARK/ADI) <b>Hennepin</b>		(W7) Early Aspects (EA) <b>Conrad C</b>		(W13) Realising Evidence-Based SE (REBSE) <b>Conrad C</b>				(W18) SE for Automotive Systems (SEAS) <b>Marquette</b>	
(W3) SE for Secure Systems (SESS) <b>Carver</b>		(W8) Scenarios and State Machines (SCESM) <b>Carver</b>		(W14) Dynamic Analysis (WODA) <b>Conrad D</b>				(W19) SE for High Perform. Computing Apps (SE-HPC) <b>Carver</b>	
(W4) Modeling in SE (MISE) <b>Lasalle</b>		(W9) Software Quality (WoSQ) <b>Marquette</b>		(W15) S/W Technologies for Ultra-Large-Scale Sys (ULS) <b>Marquette</b>				(W20) SE for Pervasive Computing (SEPCASE) <b>Hennepin</b>	
(W5) Predictor Models in SE (PROMISE) <b>Conrad D</b>		(W10) Systems Development in SOA (SDSOA) <b>Conrad B</b>		(W16) Incorporating COOTS into SW Systems (IWICSS) <b>Carver</b>				(W21) Automation of Software Test (AST) <b>Lasalle</b>	
(W6) Economics of Software and Computation (ESC) <b>Conrad C</b>		(W11) Emerging Trends in FLOSS (FLOSS) <b>Conrad D</b>		(W17) Assessment of Contemp. Modularization Technqs (ACoM) <b>Conrad B</b>				(F7) Aspect-Oriented Design in Java/AspectJ and Ruby <b>Ramsey</b>	
(F1) Evaluating Dependability of Component-Based Specs <b>Ramsey</b>		(F3) Safety & Security Requirements for Software Intensive Systems <b>Lasalle</b>		(F4) Migration of Legacy Assets to SOA Environments <b>Hennepin</b>				(F8) Variability Management in Software Product Line Engineering <b>Nicollet</b>	
(H1) Repts Eng. So Things Don't Get Ugly <b>Nicollet</b>		(H5) Architecture Knowledge Mgmt <b>Ramsey</b>		(H6) Mining SE Data <b>Ramsey</b>					
(H2) Testing Concurrent Java Components <b>Duluth</b>		(H3) Empirical Methods in SE Research <b>Nicollet</b>		(F5) Agile Methods: Crossing the Chasm <b>Lasalle</b>					
(H4) Lean Software Development <b>Duluth</b>		(F6) Cost-Benefit Analysis of Software Development Techniques <b>Ramsey</b>		(F7) Languages for Safety-Critical Software <b>Nicollet</b>					
		Doctoral Symposium <b>Directors Row 4</b>		(H7) Developing Secure Embedded Systems <b>Nicollet</b>					
International Conference on Software Process <b>Conrad A and B</b>		New SE Faculty Symposium <b>Duluth</b>		Symposium on The Legacy of Barry W. Boehm <b>Duluth</b>					

ICSE Main Program May 23-25



## Tutorials

### SUNDAY 20 MAY

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#### **(F1) Evaluating Dependability Attributes of Component-Based Specifications**

Room: Ramsey

Full Day

Presenters: Ivica Crnkovic, Lars Grunskoe

#### **(H1) Requirements Engineering So Things don't Get Ugly**

Room: Nicollet

Half Day (Morning)

Presenter: Deb Jacobs

#### **(H2) Testing Concurrent Java Components**

Room: Duluth

Half Day (Morning)

Presenters: Paul Strooper, Luke Wildman

#### **(H3) Empirical Methods in Software Engineering Research**

Room: Nicollet

Half Day (Afternoon)

Presenters: Walter F. Tichy, Frank Padberg

#### **(H4) Lean Software Development**

Room: Duluth

Half Day (Afternoon)

Presenters: Mary Poppendieck, Tom Poppendieck

### MONDAY 21 MAY

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#### **(F3) Engineering Safety and Security Related Requirements for Software Intensive Systems**

Room: Lasalle

Full Day

Presenter: Donald G. Firesmith

#### **(H5) Architecture Knowledge Management: Challenges, Approaches and Tools**

Room: Ramsey

Half Day (Morning)

Presenters: Ian Gorton, Ali Babar

#### **(H6) Mining Software Engineering Data**

Room: Ramsey

Half Day (Afternoon)

Presenters: Tao Xie, Jian Pei, Ahmed E. Hassan

### TUESDAY 22 MAY

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#### **(F4) Migration of Legacy Assets to Service-Oriented Architecture Environments**

Room: Hennepin

Full Day

Presenters: Dennis Smith, Grace Lewis

#### **(F5) Agile Methods: Crossing the Chasm**

Room: Lasalle

Full Day

Presenters: Frank Maurer, Grigori Melnik

#### **(F6) Cost-Benefit Analysis of Software Development Techniques and Practices**

Room: Ramsey

Full Day

Presenter: Hakan Erdogmus

#### **(H7) Languages for Safety-Critical Software: Issues and Assessment**

Room: Nicollet

Half Day (Morning)

Presenter: Ben Brosgol

#### **(H8) Developing Secure Embedded Systems: Pitfalls and How to Avoid Them**

Room: Nicollet

Half Day (Afternoon)

Presenter: Jan Jürjens

### SATURDAY 26 MAY

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#### **(F7) Aspect-Oriented Design in Java/AspectJ and Ruby**

Room: Ramsey

Full Day

Presenter: Dean Wampler

#### **(F8) Variability Management in Software Product Line Engineering**

Room: Nicollet

Full Day

Presenters: Klaus Pohl, Andreas Metzger

## Workshops

### SATURDAY 19 MAY

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#### **(W1) 4th Workshop on Mining Software Repositories (MSR'07)**

Room: Marquette

Note: Two day workshop, starts 9am, May 19

Co-Chairs: Harald Gall, Michele Lanza

#### **(W2) 2nd Workshop on SHaring and Reusing architectural Knowledge - Architecture, rationale, and Design Intent (SHARK/ADI'07)**

Room: Hennepin

Note: Two day workshop, starts 9am, May 19

Organizers: Paris Avgeriou, Paul S. Grisham, Philippe Kruchten, Patricia Lago, Dewayne E. Perry

#### **(W3) 3rd Workshop on SE for Secure Systems (SESS'07)**

Room: Carver

Note: 1½ day workshop, starts 2pm, May 19

Organizers: Danilo Bruschi, Bart De Win, Seok-Won Lee, Mattia Monga

#### **(W4) Workshop on Modeling in SE (MiSE'07)**

Room: Lasalle

Note: 1½ day workshop, starts 2pm, May 19

Organizers: Joanne Atlee, Robert France, Geri Georg, Ana Moreira, Bernhard Rumpe, Steffen Zschaler

## SUNDAY 20 MAY

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### **(W5) 3rd Workshop on Predictor Models in SE (PROMISE'07)**

**Room:** Conrad D

Organizers: Gary D. Boetticher, Tim Menzies, Tom Ostrand

### **(W6) Workshop on the Economics of Software and Computation (ESC'07)**

**Room:** Conrad C

Organizers: Rick Kazman, Kevin Sullivan, Mary Shaw, Barry Boehm, Jyrki Kontio

## MONDAY 21 MAY

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### **(W7) Early Aspects at ICSE: Workshop in Aspect-Oriented Requirements Engineering and Architecture Design**

**Room:** Conrad C

Organizers: Ruzanna Chitchyan, Ana Moreira, Awais Rashid, Bedir Tekinerdogan, Elisa Baniassad, João Araújo, Paul Clements

### **(W8) 6th Workshop on Scenarios and State Machines (SCESM'07)**

**Room:** Carver

Co-Chairs: Wolfgang Grieskamp, Nicolas Kicillof

### **(W9) 5th Workshop on Software Quality (WoSQ'07)**

**Room:** Marquette

Organizers: Barry Boehm, Sunita Chulani, June Verner, Bernard Wong

### **(W10) Workshop on Systems Development in SOA Environments (SDSOA)**

**Room:** Conrad B

Organizers: Grace Lewis, Dennis Smith, Kostas Kontogiannis, Stefan Schuster, Marin Litoiu

### **(W11) Workshop on Emerging Trends in FLOSS Research and Development (FLOSS'07)**

**Room:** Conrad D

Organizers: Andrea Capiluppi, Gregorio Robles, Walt Scacchi, Brian Fitzgerald, Joe Feller, Karim Lakhani, Scott Hissam

### **(W12) Workshop on Aerospace SE (AeroSE'07)**

**Room:** Conrad A

**Note:** Two day workshop, starts 9am, May 21

Organizers: Mats Heimdahl, Henry Muccini

## TUESDAY 22 MAY

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### **(W13) 2nd Workshop on Realising Evidence-Based SE (REBSE'07)**

**Room:** Conrad C

Co-Chairs: David Budgen, Pearl Brereton, Barbara Kitchenham, Mark Turner

### **(W14) Workshop on Dynamic Analysis (WODA'07)**

**Room:** Conrad D

Co-Chairs: Alessandro Orso, Andreas Zeller

### **(W15) Workshop on Software Technologies for Ultra-Large-Scale Systems (ULS'07)**

**Room:** Marquette

Organizers: Richard P. Gabriel, Rick Kazman, Linda Northrop, Douglas C. Schmidt, Kevin Sullivan

### **(W16) 2nd Workshop on Incorporating COTS Software into Software Systems (IWICSS'07)**

**Room:** Carver

Co-Chairs: Alexander Egyed, Hausi Müller, Dewayne E. Perry, Dennis B. Smith, Scott Tilley

### **(W17) Workshop on Assessment of Contemporary Modularization Techniques (ACoM.07)**

**Room:** Conrad B

Co-Chairs: Elisa Baniassad, Alessandro Garcia, Cristina Videira Lopes, Christa Schwanninger, Jianjun Zhao

## TUESDAY 22 MAY

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### **(W18) 4th Workshop on SE for Automotive Systems (SEAS'07)**

**Room:** Marquette

Organizers: Alexander Pretschner (chair), Christian Salzmann, Bernhard Schätz, Thomas Stauner

### **(W19) 3rd Workshop on SE for High Performance Computing Applications (SE-HPC'07)**

**Room:** Carver

Organizers: Jeffrey Carver, Philip Johnson, Adam Porter, Walter Tichy, Lawrence Votta

### **(W20) Workshop on SE for Pervasive Computing Applications, Systems and Environments (SEPCASE'07)**

**Room:** Hennepin

Organizers: Anand Tripathi, Roy Campbell, Liviu Iftode, Paolo Bellavista

### **(W21) 2nd Workshop on Automation of Software Test (AST'07)**

**Room:** Lasalle

Co-Chairs: Hong Zhu, Eric Wong, Amit Paradkar

### **(W22) Workshop on SE for Adaptive and Self-Managing Systems (SEAMS'07)**

**Room:** Symphony II

**Note:** Two day workshop, starts 9am, May 26

Organizers: Betty Cheng, Rogério de Lemos, Stephen Fickas, David Garlan, Marin Litoiu, Jeff Magee, Hausi A. Müller, Richard Taylor

# Co-located Events

**SAT 19 MAY – SUN 20 MAY**

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## **International Conference on Software Process (ICSP'07)**

**Room:** Conrad A and B

### **General Chair:**

David M. Raffo, Portland State University, USA

### **Program Co-Chairs:**

Dietmar Pfahl, University of Calgary, Canada

Qing Wang, China

**MONDAY 21 MAY**

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## **New Software Engineering Faculty Symposium**

**Room:** Duluth

*9:00 Welcome, Introductions, Overview*

*9:30 Mapping out a Research Agenda*

*10:00 Publication Strategies*

*10:30 BREAK*

*11:00 Ethics*

*11:30 Teaching and Mentoring Students*

*12:00 LUNCH Obtaining Research Funding (breakout groups by nationality)*

*1:00 How to (improve the chances that you will) get a paper accepted at ICSE/FSE/ASE*

*1:30 How to get Promoted*

*2:00 Time Allocation: Balancing Research, Teaching, and Service*

*2:30 Networking*

*3:00 BREAK*

*3:30 How to Have a Life as Well as a Career--and Why!*

*4:00 A view from the trenches -- Panel of successful young faculty members*

*4:45 Summary and final advice*

## **Doctoral Symposium**

**Room:** Directors Row 4

*On Sufficiency of Mutants*

Akbar Siami Namin

*Testing and Analysis of Access Control Policies*

Evan E Martin

*A Context-Oriented Framework for Software Testing in Pervasive Environment*

Heng Lu

*A Data Model to Support End User Software Engineering*

Christopher Scaffidi

*Ajaxifying Classic Web Applications*

Ali Mesbah

*A Discreet, Fault-Tolerant, and Scalable Software Architectural Style for Internet-Sized Networks*

Yuriy Brun

*Handling Safety-related Feature Interaction in Safety-Critical Product Lines*

Jing (Janet) Liu

*Toward Applying Information Hiding Modularity On Dynamic Adaptation*

Yuanyuan Song

*Adaptive Probabilistic Model for Ranking Code-Based Static Analysis Alerts*

Sarah Smith Heckman

*Stakeholder Value Driven Threat Modeling for Off The Shelf Based Systems*

Yue Chen

*Mining Object Usage Models*

Andrzej Wasylkowski

*Modular-like Transformations and Style Checking for Crosscutting Programming Concepts*

Macneil Charles Shonle

*Assessing Changeability by Investigating the Propagation of Change Types*

Beat Fluri

*Using Software Model Checking for Software Component Certification*

Ali Taleghani

*Understanding and Aiding Code Evolution By Inferring Change Patterns*

Miryung Kim

*A Quality-Driven Approach to Enable Decision-Making in Self-Adaptive Software*

Mazeiar Salehie

**TUESDAY 22 MAY**

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## **Software Engineering: The Legacy of Barry W. Boehm**

**Room:** Duluth

### **Symposium Organizer:**

Richard Selby, Northrop Grumman Space Technology, USA

*Introduction. Biography of Barry W. Boehm*

Richard Selby

*Software Architecture and Quality*

Larry Bernstein

*Software Economics*

Richard Selby

*Software Tools*

Art Pyster

*Software Process: Early Spiral Model*

Walker Royce

*Software Risk Management*

Tom DeMarco

*Software Process: Emerging Extensions*

Lee Osterweil

*Software and Systems Management*

Fred Brooks

*Software Engineering State-of-the-Art / Practice*

Vic Basili

*Value-Based Software Engineering*

Kevin Sullivan

*Thoughts for the Future*

Barry Boehm

# Meals and Social Events

**WEDNESDAY MAY 23**

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## Food for Thought: Retrospectives on Peopeware

**Room:** Salon D  
**Starts 12:45pm**

*The first of our “food for thought” sessions, new at ICSE this year. Since its publication twenty years ago “Peopeware Productive Projects and Teams” (Dorset House, 1987) by Tom DeMarco and Tim Lister has enlightened software professionals and non-professionals alike. Peopeware introduced among other topics - team jell, design patterns, and the “Furniture Police” - to the software engineering community and suggested that “sociology matters more than technology or even money”. Plan to attend this unique session with the pioneers of our profession to learn, reflect, and share experiences - looking forward to the future. Panelists include Barry Boehm, Fred Brooks Jr., Tom DeMarco, Tim Lister, Linda Rising, and Ed Yourdon. Collect a plate of food from the buffet lunch served in Salons A,B,C, and bring it to Salon D to join in this remarkable panel session.*

## ICSE Poster Session and Reception

**Room:** Symphony Ballroom  
**Starts 6pm**

*Meet and chat to ICSE friends, old and new, while wandering among posters presented by authors of the research demo papers and the students from the Doctoral Symposium.*

## SIGSOFT Town Hall Meeting

**Room:** Marquette/Lasalle  
**Starts 7:30pm**

*Come hear what ACM SIGSOFT – a sponsor of ICSE – is doing for the community, and let the SIGSOFT leadership know about your concerns and how they can better serve you. Refreshments and libations provided.*

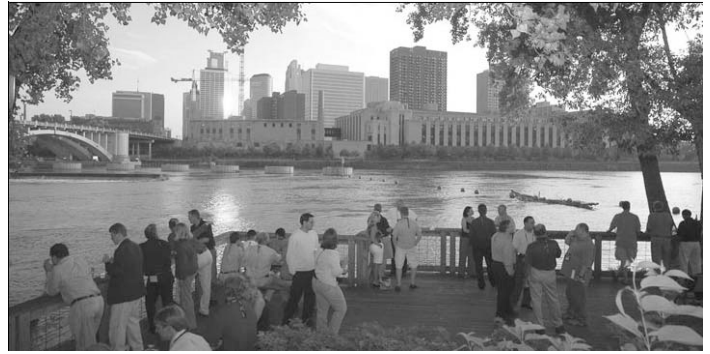
**THURSDAY MAY 24**

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## Food for Thought: Agile Contracts

**Room:** Salons A,B  
**Starts 12:45pm**

*The second of our lunchtime food for thought sessions features a talk by Mary Poppendieck, managing director of the Agile Alliance. In the mid 1980’s Toyota came to the US and showed Detroit how to work with suppliers on a win-win basis. In just five years, Toyota was the most trusted automaker among all automotive suppliers, had the lowest procurement costs, and the highest contribution of innovation from supplier companies. What does Toyota know about working with contracts that we can learn? For starters, they know that trust lies in specific actions, not interpersonal relationships. They understand the ‘game’ of contracting, and know how to structure relationships so both sides are motivated to contribute to the common good. There’s much we can learn from Toyota about how to change the contracting game in software development for the benefit of both parties.*



## ICSE 2007 Banquet

**Location:** Nicollet Island  
**Beginning with departures from the Hilton hotel at 5:30pm, buses will be providing a round-trip shuttle service between the hotel and Nicollet Island approximately every 15 minutes until 10:30 p.m.**

*The ICSE 2007 banquet will be held at the Island Pavilion, on Nicollet Island. Buses will be available to transport attendees to and from the island. The banquet will include a chance to try out an island tour on a Segway, try your hand at fishing for trout, cook s’mores on a campfire, wander through displays of authentic teepees, join a traditional tribal camp, toss a tomahawk, try archery with a traditional bow, and listen to the Native American elders tell stories. Native dancers and drummers will entertain us, as we dine from bountiful buffets, featuring local favorite dishes.*

**FRIDAY MAY 25**

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## Food for Thought: Modeling for Maintainability

**Room:** Salons A,B  
**Starts 12:45pm**

*The last of our food for thought sessions features a talk by Andrew Watson, of the OMG. Software maintenance is the Cinderella of Software Engineering. The cost of creating a long-lived application is dwarfed by the cost of maintaining, updating and porting it over a lifetime sometimes measured in decades, yet few software engineers plan for maintainability. The only alternative to maintenance is to routinely re-implement working systems to a revised specification, but this is an even more expensive proposition. In fact, as the deployed software base continues to grow, we may already have reached the point where it’s economically impossible to replace working applications, and there’s no alternative to maintaining them. Fortunately, recent studies show that model-driven development methods (such as OMG’s Model Driven Architecture) not only help develop quality applications quickly and cheaply in the first place, but also yield dramatic savings in the time and effort needed to maintain them. Use of model-driven techniques may literally be the only way businesses can afford to keep their software infrastructure running over the next few decades.*

## Local Excursions at ICSE-07

Welcome to the Local Excursions Program for the International Conference on Software Engineering.

- Excursions include trips for shopping, museums, dancing, walking, and a pedal-cart tour.
- Register for excursions (and pay for those requiring advance payments) at the conference registration desk.
- Each trip has a minimum size and maximum capacity; trips not meeting the minimum size will be canceled and money refunded.
- All trips will depart from in front of the registration desk.
- Many trips will use public transportation—our Metro area light-rail and/or bus.
- Each trip will be escorted to its destination by a member of the conference volunteer staff; for most trips, a return escort will be provided as well.

We have scheduled the following events (Consult schedule in front of registration desk for trip details):

Date	Time	Type	Location	Advance Payment	URL
Sun 20th	PM	Historic site	Fort Snelling	No	<a href="http://www.mnhs.org/places/sites/hfs/">www.mnhs.org/places/sites/hfs/</a>
	PM	Walk	Mpls historic areas	No	<a href="http://www.geocities.com/tcvwalking">www.geocities.com/tcvwalking</a>
	Evening	Meal & Dance	Loring Pasta bar	No	<a href="http://loringpastabar.com">loringpastabar.com</a>
Mon 21st	Day	Museum	Science Museum Minnesota	No	<a href="http://www.smm.org">www.smm.org</a>
	Day	Shopping	Mall of America	No	<a href="http://www.mallofamerica.com">www.mallofamerica.com</a>
Tue 22nd	Day	Museum	Minnesota History Museum	No	<a href="http://www.mnhs.org/historycenter/">www.mnhs.org/historycenter/</a>
	Evening	Walk	Mpls historic areas	No	<a href="http://www.geocities.com/tcvwalking">www.geocities.com/tcvwalking</a>
	Evening	Drama	Guthrie Theater	Yes	<a href="http://www.guthrietheater.org">www.guthrietheater.org</a>
Wed 23rd	Day	Museum	Walker Art Museum	No	<a href="mailto:info.walkerart.org">info.walkerart.org</a>
	Day	Shopping	Mall of America	No	<a href="http://www.mallofamerica.com">www.mallofamerica.com</a>
	Evening	Pedal Bus	Mpls historic areas	Yes	
	Evening	Drama	Jeune Lune Theater	Yes	<a href="http://www.jeunelune.org">www.jeunelune.org</a>
Thurs 24th	Day	Museum	Mill City Museum	No	<a href="http://www.millcitymuseum.org">www.millcitymuseum.org</a>
	Late Evening	Dance: Swing	Tapestry Folk Dance Center	No	<a href="http://www.tapestryfolkdance.org">www.tapestryfolkdance.org</a>
Fri 25th	Day	Museum	Minneapolis Ins. Art	No	<a href="http://www.artsmia.org">www.artsmia.org</a>
	Day	Shopping	Mall of America	No	<a href="http://www.mallofamerica.com">www.mallofamerica.com</a>
	Evening	Sports	Minnesota Twins	No	<a href="http://minnesota.twins.mlb.com">minnesota.twins.mlb.com</a>
	Evening	Dance: Tango	4 Season Dance Studio		<a href="http://www.fourseasonsdance.com">www.fourseasonsdance.com</a>
Sat 26th	Evening	Sports	Minnesota Twins	No	<a href="http://minnesota.twins.mlb.com">minnesota.twins.mlb.com</a>

In addition, visits to the Charles Babbage Institute for the History of Information Technology will be arranged upon request. The Charles Babbage Institute is an archives and research center dedicated to preserving the history of information technology and promoting and conducting research in the field (<http://www.cbi.umn.edu/>).

*Prior to the conference, direct any questions to Paul Stachour via email at [Pstachour@acm.org](mailto:Pstachour@acm.org), or leave a telephone messages at 952-884-5977*

## DRIVING WORLD BUSINESS

Mark your calendars for the 30<sup>th</sup> International Conference on Software Engineering on 10-18 May, 2008 in Leipzig, Germany!

Opportunities for professional engagement include workshops, tutorials, research demonstrations, exhibits, paper tracks on research and education, and special tracks on telecommunications, automotive, and medical systems. In the doctoral symposium and new faculty symposium, researchers gain a head start in their chosen profession.

In addition to a strong technical program, expect cultural highlights such as a concert with the world-renowned Gewandhaus Orchestra, a visit to Bach's long-time workplace and Goethe's favorite pub, and a walk in the footsteps of Germany's peaceful revolution.

General Chair: Wilhelm Schäfer (University of Paderborn)  
Program Co-Chairs: Matt Dwyer (University of Nebraska),  
Volker Gruhn (University of Leipzig)

<http://icse08.upb.de>

Research Papers, Special Tracks: 14 Sep 07  
Education Papers, Tutorial Proposals,  
Workshop Proposals: 12 Oct 07  
Research Demonstrations: 30 Nov 07  
Doctoral Simposium: 14 Dec 07

### 国际软件工程大会 (ICSE)

莱比锡大学实用电子通讯/电子商务系对2008年将在本市举行的第30届国际软件工程大会负责。组织者的目的不只是为参加者提供专业的大会基础设施,而且还可以让他们感受到莱比锡特殊的自由氛围。数百年来莱比锡城和德国历史上第二大古老的大学——莱比锡大学给予了欧洲的经济和精神生活以极大的推动。诺贝尔奖获得者海森堡、赫兹和奥斯特瓦尔德曾在这里任教。莱布尼兹、歌德、瓦茨纳和尼采曾在这里学习。今天这里还有来自140个国家的31000名学生在此注册。

会议大厅、展馆、交通枢纽和名胜古迹位历史古城旁边。周围有一条绿色林荫大道。1989年莱比锡市民在此为和平革命举行了大众游行并且这成为推动德国统一的力量。尽管本地组织已经开始准备工作。但是在未来的两年大会委员会还有很多工作。直到2008年国际软件工程大会在莱比锡召开。



## ICSE 09 Vancouver May 16-24

### Westin Bayshore Hotel



Organizing Committee: Stephen Fickas (General Chair),  
Jo Atlee (PC Co-Chair), Paola Inverardi (PC Co-Chair)

[www.cs.uoregon.edu/events/icse2009](http://www.cs.uoregon.edu/events/icse2009)

Special New Event: Student Contest in Software Engineering (<http://score.elet.polimi.it>).

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