29th International Conference on Software Engineering

We are extremely grateful to our industrial supporters:

Platinum
Infosys

Gold
Honeywell

Silver

Bronze

ICSE 2007 Team

• Organizing committee
• Several program committees
• ICSE sponsors:
  – ACM SIGSOFT
  – IEEE CS Technical Committee on Software Engr.
• Minneapolis Convention Bureau
• Minneapolis Hilton Staff

My personal thanks to everybody involved

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Bill Griswold, UCSD, USA

Peggy Reed

• Detail planning
• Travel arrangements
• Telephone conferences
• Contracts
• Budgets, budgets, budgets
• Visa letters
• E-mail
• Regular mail
• Menus for meals
• Etc.
Quite A Contrast

Shanghai - 2006

Minneapolis - 2007

International Conference on Software Engineering

Crucial Resource Worldwide

Research Education Demonstration Discussion

ICSE

ICSE Demographics

Crucial Resource Worldwide

Argentine 1 Greece 2 Portugal 3
Australia 11 Hong Kong 4 Romania 1
Austria 6 India 6 Saudi Arabia 1
Belgium 8 Ireland 6 Singapore 2
Brazil 12 Israel 3 South Korea 19
Canada 69 Italy 29 Spain 8
China 18 Japan 28 Sweden 16
Colombia 2 Korea 1 Switzerland 16
Croatia 1 Malaysia 1 Turkey 3
Denmark 1 Mexico 1 United Arab
Finland 2 Netherlands 8 Emirates 1
France 7 New Zealand 4 United Kingdom 42
Germany 41 Norway 4 USA 520

ICSE Demographics

Australia
Brazil
Canada
Colombia
Finland
France
Germany
Kenya
Korea
Netherlands
Portugal
Singapore
South Korea
Spain
United Arab Emirates
United Kingdom
USA

Before And After

• Twenty two workshops
  – 607 attendees
• Fifteen tutorials
  – 222 attendees
• Collocated events:
  – International Conference on Software Process
  – New Software Engineering Faculty Symposium
  – Doctoral Symposium
  – Symposium Honoring Barry Boehm

Keynotes

• Steve Fisher, salesforce.com
  – The Architecture of the Apex Platform,
    salesforce.com's Platform for Building On-Demand Applications
• Deborah Johnson, University of Virginia
  – Computer Professional Ethics in Theory and in Practice
• Bev Littlewood, City University London
  – Limits To Dependability Assurance - A Controversy Revisited
Program Elements

- Program tracks:
  - Research
  - Future of software engineering
  - Education
  - Formal demonstrations
  - Experience reports
- Panels:
  - Impact project
  - NSF software engineering investigators
  - Future of software engineering research funding
- Portraits in Practice
- Poster session
- Infosys-Software Engineering Challenges in IT Services

ICSE 2007
Technical Program

Research Program Co-Chairs:
Wolfgang Emmerich
University College London, UK
Gregg Rothermel
University of Nebraska – Lincoln, USA

Technical Program

- 493 papers submitted
- Proceedings contain peer-reviewed
  - Research papers
  - SE education papers
  - Formal research demos
  - Experience reports

Research Paper Submission

- 335 research papers received by 8th Sept. 2006

Research Paper Author Origins

Research Paper Topics
Research Paper Selection

- Papers previewed by PC co-chairs, 325 retained for review
- Two-phase review process
  - Phase 1: all papers received 2 reviews
  - Phase 2: 166 papers received 3rd review
- 815 reviews completed
- PC meeting, December 8-9, Washington DC
- 49 papers accepted
- Acceptance rate: 15%

Experience Reports

- 52 reports submitted
- 15 reports accepted
- Acceptance rate: 28%
- Experience PC chairs
  - Michael Hirsch (Zühlke AG)
  - Frank Maurer (UC Calgary)

Experience Reports PC

- Pekka Abrahamsson
- Mikko Aoyama
- Robert Biddle
- Walter Bischofberger
- Daniela Damian
- Andre De Lucia
- Yvonne Dittrich
- Hakan Erdogmus
- Christiane v. Wangenheim
- Paul Grünbacher
- John Grundy
- Yanbo Han
- Philippe Kruchten
- Filippo Larubile
- Jürgen Münch
- Donald Reifer
- Markus Schochner
- Forrest Shull
- Laurie Williams
- Yun Yang

SE Education Papers

- 50 papers submitted
- 13 papers accepted
- Acceptance rate: 26%
- SE Education PC chairs
  - Tim Lethbridge (University of Ottawa)
  - André van der Hoek (UC Irvine)

SE Education PC

- Ban Al-Ani
- Nicolas Anquetil
- Jocelyn Armarego
- David Budgen
- Betty Cheng
- Joe Clifton
- Sheryl Dugins
- Robert Dupuis
- Sebastian Elbaum
- Heidi Ellis
- Michael Ernst
- Robert France
- Jane Hayes
- Orli Hazzan
- Peter Henderson
- Ciem Kaner
- Philippe Kruchten
- Katsushika Maruyama
- Nancy Mead
- Ana M. Moreno
- Vladimir Pavlov
- Mark Sebren
- Mark Sembrant
- Elan Strouli
- Hans van Vliet
- Claudia M L. Werner
- Timo Wolf
- Andreas Zeller

ICSE 2007 Research PC

- Joanne Allee
- Judith Bishop
- Victor Braberman
- S. C. Cheung
- Matthew Dwyer
- Jacky Estublier
- Anthony Finkelstein
- Harald Gall
- Carlo Ghezzi
- Dimitra Giannakopoulou
- Paul Grünbacher
- Volker Gruhn
- John Grundy
- Rachel Harrison
- Jens Jahnke
- Richard Kemmerer
- Gail Murphy
- Amy Murphy
- Kunio Nakakoji
- Harold Oascher
- Gian Pietro Picco
- Alanas Rountev
- Mary Lou Soeff
- Kevin Sullivan
- Tetsuo Tamai
- Peri Tarr
- Richard Taylor
- Walter Tichy
- Willem Visser

Research Demonstrations

- 56 Proposals submitted
- 12 Formal research demos accepted
- Acceptance rate: 21%
- Research Demo chairs
  - Elisabetta di Nitto (Politecnico Milano)
  - Alex Orso (Georgia Tech)

Research Demo PC

- Jonathan Cook
- Prem Devanbu
- Kokichi Futatsugi
- John Grundy
- Shrawan Kumar
- Tiziana Margaria
- Cecilia Mascolo
- James Noble
- Matteo Pradella
- Martin Robillard
- Sebastian Uchtel
- Andreas Zeller
- Jian Zhang

Technical Paper Sessions

- Salon F
- Salon E
- Salon G
- Marquette/Lasalle/Hennepin/Carver
Food for Thought

- Presentations at lunchtime
  - Partitioned lunch space
- Wednesday:
  - "Retrospectives on Peopleware"
  - Panel
- Thursday:
  - "Agile Contracts"
  - Mary Poppendieck
  - "Modeling for Maintainability"
  - Andrew Watson

Miscellaneous Details

- Student volunteers:
  - Available to help, please ask
  - Wearing ICSE T shirts
- Help available in Redwing Room (2nd floor)
- "Minneapolis Bargain Book"
- Facilitator in lobby late this afternoon:
  - Suggestions for restaurants and recreation
  - Reservations
  - Directions
- Committee meetings listed in program
- Proceedings on flash memory
- Bugs in published program… (~1 bug/NCNBKLOP)

Nicollet Island

- William Bros Boiler Works, 1886
- Fire, rebuilt 1893
- Stone Arch Bridge
- 1858 Horseshoe-shaped Dam
  - First dam on built on the Mississippi River
- World's smallest suspension bridge
- Stone Arch bridge
- Strolling, sitting, viewing areas
- Large working lock

Social Event

- Rich native American culture in the Minnesota area
  - Dakotah, Sioux, Cheyenne and Chippewa tribes
  - People you meet at the social event are native Americans
- Introduction to that culture:
  - History, lifestyle, entertainment, and cuisine
  - Authentic teepees, camp fires, traditional tribal camp in a village environment
  - Native American elders telling stories
  - Crafts & hand-crafted games
  - Tomahawk toss, archery, dancers
  - Trout fishing
- Fun and learning experience

Invitation

Two members of the Native American community here to address us:

- Joseph Campbell
  - Dakotah tribe
- Larry Yazzie
  - Meskwaki Indian Settlement

Segways

- Available for brief tours of the island
- Programming contest:
  - Some Segways will have no software
  - Build control system starting at 6:00 p.m.
  - Full professors only
Summary

- Buses running regularly starting at 5:30 p.m.
  - Short and pleasant walk if weather is fine
- Native American culture
- Segway tours
- Riverside park areas
- Indoor relaxation areas
- Variety of banquet items
- Dress casual

Something for everybody

Awards

- At various points in the program
- ICSE 1997 Most Influential Paper
- ACM SIGSOFT Outstanding Research Award
- ACM SIGSOFT Distinguished Service Award
- ACM SIGBED/SIGSOFT Frank Anger Memorial Award
- ACM Fellows
- ACM SIGSOFT Distinguished Paper Awards
- IEEE Computer Society Harlan D. Mills Award
- IEEE-CS Fellows

ACM SIGSOFT Outstanding Research Award

Nicollet Mall

Downtown Skywalk

- Seven miles in length
- Connects several hotels, many stores, attractions, etc.
- Avoid traffic and weather
- Access on Hilton 2nd floor
- Try it, it is terrific

22 Lakes Inside City
Mississippi River

- Working river
- Recreational center
- Nearby
- Wonderful facility for:
  - Jogging
  - Walking
  - Sitting
- Exit hotel, turn right
- Left at T junction
- Bridge on right

Cell Phones

- Please turn off cell phones
- This is an FAA requirement
- Cell phones interfere with the conference navigation systems
- You may use laptops and other electronic equipment once we reach our cruising altitude

Today’s Keynote

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

Steve Fisher
Senior Vice President of AppExchange
salesforce.com