



Fairmont Chateau Lake Louise

www.fairmont.com/lakelouise
Lake Louise, Alberta
Canada

The conference will be held at the incredible Fairmont Chateau Lake Louise in Lake Louise, Alberta, Canada. Lake Louise is approximately 2 hours from Calgary.

The Fairmont offers ample outdoor winter activities as well as a free shuttle to nearby skiing. You can learn more about this wonderful facility and site activities at their website.

The room rates are \$210 CDN (~\$177 US). This rate is inclusive of all gratuities for housekeeping, portage and other services.

cpc⁷ chemical process control

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Richland, Washington 99352

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Assessment of Core Technologies and Emerging Applications



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Emerging Applications

January 8 - 13, 2006
Fairmont Chateau Lake Louise
Lake Louise, Alberta
Canada

Conference Program

www.cpc7.org

Assessment of Core Technologies and Emerging Applications

The overall goal of the CPC conference series is to evaluate current progress in the process control field and to identify new intellectual challenges that may have a fundamental impact on future industrial practice. Specific goals of CPC 7 include:

1. Assess the current state of process control theory and practice.
2. Present tutorial overviews for non-specialists in relevant areas of systems and control theory, particularly emerging and new areas.
3. Provide a forum for in-depth discussions between university researchers, industrial practitioners and commercial control technology vendors.
4. Expose practitioners and vendors to significant new tools emerging from the research community to stimulate wider implementation.
5. Present promising research directions for the next decade.
6. Evaluate needs and challenges in the process industries for the next decade.
7. Evaluate opportunities for applications in non-traditional industries.
8. Evaluate the current status of process control education at the undergraduate and graduate levels.

CPC 7 is an international conference attracting participants from North and South America, Europe and the Pacific Rim. Based on previous CPC meetings, approximately 50% of the attendees will be from industry and government with the remaining attendees from academia. In the tradition of previous CPC conferences, all oral presentations will be invited. Technical sessions will be scheduled in the mornings and the evenings, with afternoons free for skiing, socializing and in-depth discussion. Morning sessions focusing on enabling control technologies will consist of four presentations and a panel discussion. Evening sessions focusing on emerging control applications will consist of three presentations. One afternoon will be devoted to a poster session for contributed papers. Vendor and software displays will be presented on two consecutive afternoons.

Conference Program

Process Control Theory: Sunday PM

Chair: Oscar Crisalle
Speakers: Richard Murray
Frank Allgower
Manfred Morari
Jay Lee

University of Florida
California Institute of Technology
University of Stuttgart
Swiss Institute of Technology - ETH
Georgia Institute of Technology

Process Control Practice: Monday AM

Chair: Martin Pottman
Speakers: J. Brian Froisy
David Vinson
John Congalidis
& John Richards
Joseph Alford

DuPont
Aspen Technology
Air Products and Chemicals
DuPont
Eli Lilly

Emerging Applications: Multiscale Systems: Monday PM

Chair: Antonios Armaou
Speakers: Jannis Kevrekidis
Panagiotis Christofides
Richard Braatz
Martha Gallivan

Pennsylvania State University
Princeton University
UCLA
University of Illinois
Georgia Institute of Technology

Enabling Technologies: Information and Enterprise Systems: Tuesday AM

Chair: Rex Reklaitis
Speakers: Steve Jenison
V. Venkatasubramanian
Val Rahmani
Sangtae Kim

Purdue University
Eli Lilly
Purdue University
IBM
Purdue University

Emerging Applications: Systems Biology: Tuesday PM

Chair: Evangelos Zafiriou
Speakers: Dieter Gilles
Frank Doyle
Yassily Hatzimanikatis

University of Maryland
Max Planck Institute
University of California - Santa Barbara
Northwestern University

Enabling Technologies: Modeling and State Estimation: Wednesday PM

Chair: Wolfgang Marquardt
Speakers: Joe Qin
Ronald Pearson
James Rawlings
Arnaud Doucet

Aachen University
University of Texas
Prosanos Corporation
University of Wisconsin
University of British Columbia

Vendor and Software Display: Wednesday PM and Thursday PM

Chair: Robert Parker
Speakers: Participants

University of Pittsburgh
To be announced

Emerging Applications: Microchemical and Fuel Cell Systems: Wednesday PM

Chair: Wayne Bequette
Speakers: Dionisios Vlachos
Mayuresh Kothare
Varigonda Subbarao

Rensselaer Polytechnic Institute
University of Delaware
Lehigh University
United Technologies Research Center

Enabling Technologies: Dynamic Simulation and Optimization: Thursday AM

Chair: Dominique Bonvin
Speakers: Bob Cox & Yiannis Dimitratos
Larry Biegler
Linda Petzold
Paul Barton

Swiss Institute of Technology - EPFL
DuPont
Carnegie Mellon University
University of California - Santa Barbara
Massachusetts Institute of Technology

Contributed Poster Sessions: Thursday PM

Chairs: Prodromos Daoutidis
Edward Gatzke

University of Minnesota
University of South Carolina

Conference Banquet: Thursday Evening

Process Control Education: Friday AM

Chair: Kenneth Muske
Speakers: James Downs
Thomas Edgar
Babatunde Ogunnaike

Villanova University
Eastman Chemical
University of Texas
University of Delaware

Registration Information

Conference fees are:

\$645 Early registration on or before October 6, 2005
\$795 Standard registration after October 6, 2005
\$445 Graduate Students

The conference will accept one grad student/post-doc per research group (up to a maximum of 15). Students must make an application during the registration process and will be notified of acceptance by November 15, 2005.

The conference fee includes one copy of the proceedings CD-ROM and abstract book, the opening reception, the conference banquet and refreshments during program breaks. Updated information about registration is contained on the conference website: www.cpc7.org
For questions and information, send an email to craven@pc7.org

Robin Craven
CPC 7 Conference Manager
1825 Leslie Road, #121
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(509) 628-8700 (Pacific time)

Important Deadlines

Early registration deadline: October 6, 2005
Submission of final contributed papers: November 10, 2005
Submission of final invited papers: November 15, 2005
Conference: January 8-13, 2006

Conference Sponsors



National Science Foundation
www.nsf.gov



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