

CAPD e-Newsletter

<http://capd.cheme.cmu.edu>

Dear CAPD member,

Welcome to the first CAPD e-Newsletter!

You need not be concerned that this will be another spam item your inbox.

We have decided that we will issue a total of four newsletters per year. Two will be the extensive report on projects with preprints as we have done in the past, the two others will be brief e-Newsletters that will contain short announcements as well as information that we think will be useful to the CAPD members. We plan to issue the e-Newsletter in April/May and October, while the extensive report will be issued in August and December. Please let us know your reaction to the e-Newsletter and to the new arrangement.

Regards, Ignacio Grossmann (grossmann@cmu.edu)

- Annual Review Meeting

The Annual Review Meeting of the CAPD took place on March 7-8, 2005. There were a total of 20 participants from industry. The companies they represent included: ABB, Air Products and Chemicals, Aspen Technology, BP, Cargill, Dow Chemical, Eastman Chemical, Exxon Mobil Corporation, Sim-Sci Esscor and Sunoco Chemicals. The meeting also consisted of: 7 presentations by final year students, 5 presentations by industrial speakers, a poster session/reception followed by a dinner at Le Mont Restaurant.

You can have an electronic version of the agenda, participant list and slides presented at the 2005 CAPD Annual Review Meeting in

<http://www.cheme.cmu.edu/internal/capd2005.zip>

Please take note that the next Annual Review Meeting will take place on **March 13-14, 2006**.

- Short Course

The CAPD short course will take place on May 18-24, 2005. The course is organized in three modules: Conceptual Design (5/18-19), Optimization (5/20-21), Operations (5/23-24). You can take one, two or all three modules. **CAPD members receive a 25% discount.** <http://capd.cheme.cmu.edu/shortcourse.html>

- Enterprise-wide Optimization

The project "Computational Models and Algorithms for Enterprise-wide Optimization of Process Industries" has been funded by the Pennsylvania Infrastructure Technology Alliance (PITA) with a start date of July 1, 2005. The project will involve a total of 7 Ph.D. students, 1 postdoc and 5 faculty (CMU: Biegler, Grossmann, Hooker; Lehigh: Linderoth; UPitt: Schaeffer). Companies interested in participating in this research program should contact Ignacio at: grossmann@cmu.edu

- Faculty News

Gary Powers received the 2005 AIChE Walton-Miller Award at the AIChE meeting in Atlanta (April 10-14, 2005) in recognition of outstanding chemical engineering contributions and achievements in the areas of Loss Prevention, Safety, and Health.

<http://www.aiche.org/awards/awarddtl.asp?AwardID=51>

Larry Biegler received the 2005 Steven J. Fenves Award for Systems Research in recognition of his pioneering contributions in the conception, development, and application of optimization algorithms based on sequential quadratic programming and interior point methods. The award was presented at the CIT banquet on April 16, 2005.

<http://www.cheme.cmu.edu/events/archive/0405/lb01FenvesAward.html>

Ignacio Grossmann is organizing the *Pan American Study Institute on Process Systems Engineering* that will take place in Iguazu, Argentina August 16-25, 2005. The PASI workshop will address four major areas: Optimization, Process and Product Design, Process and Supply Chain Operations, and Process Dynamics and Control. Presentation materials will be available in July. <http://cepac.cheme.cmu.edu/pasi.htm>

- Student News

Calvin Chan, student of Gary, successfully defended his PhD exam on April 4, 2005. He will be joining ExxonMobil at Fairfax, Virginia.

Vikas Goel, student of Ignacio, <http://www.andrew.cmu.edu/user/vgoel/> successfully defended his Ph.D. exam on April 18, 2005. He will be joining ExxonMobil Upstream Research Center in Houston.

John Siirola, student of Steinar and Art, <http://www.andrew.cmu.edu/user/jsiirola/> successfully defended his Ph.D. exam on April 19, 2005. He will be doing postdoctoral studies.

Cong Xu, student of Larry and Myung Jhon, <http://www.andrew.cmu.edu/user/cxu/home.htm> successfully defended his Ph.D. exam on April 27, 2005. He will be doing postdoctoral studies.

Maame Poku will be defending her Ph.D. thesis on May 9, 2006. She will be joining BP in Naperville.

- Interesting web-resources

You can solve phase equilibrium equations using Peng-Robinson equation in:

<http://www.questconsult.com/~jrm/>

You can access webpages of all PSE faculty in the Americas in:

<http://cepac.cheme.cmu.edu/country.htm>

- New Area 10e in AIChE

The upcoming 2005 AIChE meeting has a new CAST programming area (10e) for “Information Technology in Chemical Engineering.” Session subareas include,

- 10E01: The Smart Plant: Opportunities in Operations, Security & The Environment
- 10E02: Integrating Data, Knowledge Models and Tools
- 10E03: Knowledge Management and Organizational Learning
- 10E04: Emerging Cyber Infrastructure Trends and Capabilities
- 10E05: Cyber Infrastructure, Regulatory Compliance and Security

- Upcoming meetings

8th SIAM Meeting on Optimization, Stockholm, May 15-19, 2005

<http://www.siam.org/meetings/op05/>

ESCAPE-15, Barcelona, 29 May- 1 June, 2005

<http://www.ub.es/escape15/escape15.htm>

16th IFAC World Congress, Prague, July 3-8, 2005

<http://ifacplaza.certicon.cz/index.php>

SIAM Annual Meeting and Conference on Control and its Applications, New Orleans, July 11-15, 2005 <http://www.siam.org/meetings/calendar.htm>

7th World Congress Chemical Engineering, Glasgow, 10-14 July, 2005

<http://www.chemengcongress2005.com/>

Foundations of Systems Biology and Engineering, UCSB, August 7-10, 2005

<http://www.fosbe.org/>

EMPROMER 2005, Rio de Janeiro, August 14-18, 2005-04-2005

<http://www.enpromer2005.eq.ufrj.br/lng/en/index.php>

Pan American Study Institute on Process Systems Engineering, Iguazu, August 16-25, 2005 <http://cepac.cheme.cmu.edu/pasi.htm>

International Workshop on Assessment and Future Directions of Nonlinear Model Predictive Control, Freudenstadt, Germany, August 26-30, 2005

<http://www.ist.uni-stuttgart.de/NMPC05/>

CHEGSA Meeting, Carnegie Mellon, October 25-26, 2005

<http://symposium.cheme.cmu.edu/>

100th Anniversary Chemical Engineering, Carnegie Mellon, October 27, 2005

AIChE Annual Meeting, Cincinnati, October 30 - November 4, 2005

<http://www.aiche.org/annual>

INFORMS Annual Meeting, New Orleans, November 13-16, 2005
<http://www.informs.org/Conf/NO2005/>

International Symposium on Chemical Process Control-7, Jan. 8-13, 2006, Lake Louise, Alberta, CA <http://www.che.utexas.edu/cache/convention.html>

AICHE Spring National Meeting, April 23-27, Walt Disney World Dolphin Resort, Orlando, FL

Foundations of Molecular Modeling and Simulation, FOMMS 2006, July 9-14, 2006, Blaine, Washington. <http://www.fomms.org/>

International Symposium on PSE 2006/ESCAPE16, July 19-23, Garmisch-Partenkirchen, Germany <http://events.dechema.de/pseescape06.html>

19th International Symposium on Mathematical Programming, July 30-August 04, 2006, Rio de Janeiro, Brazil <http://www.lncc.br/~ismp2006/>

INFORMS Annual Meeting 2006 Pittsburgh, PA, November 5-8, 2006

AICHE Annual Meeting 2006, November 12-17, San Francisco Hilton, San Francisco,