

**PREP 2009**  
**22nd International Symposium, Exhibit and Workshops**  
**on Preparative/Process Chromatography**  
**Loews Philadelphia Hotel**  
**July 19 – 22, 2009**  
<http://www.PREPSYMPIUM.org>

This edition of the newsletter provides an update on the PREP2009 Symposium. You and your colleagues are encouraged to participate and submit abstracts dealing with the topic areas outlined below. Consider also suggesting new topics that you would like to see incorporated in the program. PREP 2009 will also feature two new in-depth courses held on Sunday that provide excellent training opportunities – one focused on small molecule HPLC and the other on biomolecule chromatography.

#### **PREP 2009 HIGHLIGHTS – WHAT'S NEW**

PREP 2009 promises to be a very exciting meeting. First, we will have new training workshops structured around two day-long mini-workshops - one focused on Preparative Chromatography for Small Molecules, and the other focused on Preparative Chromatography for Biomolecules. Each workshop will also address Regulatory Aspects. Second, we will have more industrial case study sessions bringing examples of not only solutions to industrial chromatography processes, but also of the challenges and opportunities that lie ahead for stationary phase and equipment manufacturers and for industrial users. Finally, we plan to have new focused technical sessions addressing small-scale, medium-scale, and large-scale prep relevant to the different phases of pharmaceutical discovery, development, and production. PREP 2009 also has a new organizational structure, which, in addition to the Organizing Committee, includes Scientific and Industrial Advisory Committees. Please visit <http://www.prepsymposium.org> for new information as it becomes available.

#### **SUNDAY TRAINING WORKSHOPS**

Two all-day training workshops will be held the Sunday preceding the meeting. Each workshop, taught by experienced lecturers from industry and academia, will provide a better understanding of the fundamental and practical issues involved in the design of preparative chromatography systems, and training in the tools needed to apply chromatographic technologies to industrial manufacturing. These workshops, useful both for those who are new to prep and for those who wish to improve their understanding, will combine into a joint session addressing regulatory and product quality aspects to facilitate applications in pharmaceutical manufacturing. The coordinated structure of these workshops will provide

valuable training and insight on the design and scale-up of chromatography from the laboratory to the commercial manufacturing scale. You will have opportunities to ask specific and detailed questions, and to meet other chromatographers facing the same challenges on a daily basis. Detailed lecture notes and certificates of completion that can be filed with your company's management or Quality Assurance Group will be provided as a validation of the training you received. For cost and registration information, please go to <http://www.prepsymposium.org>.

- ✓ Get an update on the latest development of the technology
- ✓ Expand your scientific knowledge
- ✓ Have the opportunity to ask specific and detailed questions
- ✓ Meet other chromatographers facing the same challenges on a daily basis
- ✓ Bring back to your manager a validated training certificate

#### **Workshop 1 – Preparative Chromatography for Small Molecules**

##### **Lecturers**

- Dr. Olivier Dapremont, Ampac Fine Chemicals
- Prof. Attila Felinger, University of Pecs
- Dr. Kathleen Muhlbachler, Bristol-Myers Squibb
- Dr. Joan Newburger, Johnson & Johnson

##### **Program**

9:00 am–10:30 am	Lecture 1. Basic principles of HPLC for small molecules
11:00 am–12:30 pm	Lecture 2. Optimization and scale-up of preparative chromatography
1:30 pm–3:00 pm	Lecture 3. Simulated Moving Bed, principles and applications
3:30 pm–5:00 pm	Lecture 4. Regulatory aspects including quality by design

## Workshop 2 – Preparative Chromatography for Biomolecules

### Lecturers

- Prof. Giorgio Carta, University of Virginia
- Dr. Alan K. Hunter, Pfizer, Inc.
- Prof. Alois Jungbauer, BOKU, Vienna
- Dr. Joan Newburger, Johnson & Johnson

### Program

9:00 am–10:30 am	Lecture 1. Fundamentals of protein chromatography
11:00 am–12:30 pm	Lecture 2. Stationary phases for biomolecules
1:30 pm–3:00 pm	Lecture 3. Bioprocess development and design
3:30 pm–5:00 pm	Lecture 4. Regulatory aspects including bio similars

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## PREP 2009 SYMPOSIUM COMMITTEES

### Organizing Committee

Georges Guiochon, Univ. of Tennessee and ORNL  
Lois Ann Beaver, U.S. Food and Drug Administration  
Giorgio Carta, University of Virginia  
Olivier Dapremont, Ampac Fine Chemicals  
Christopher Welch, Merck & Co., Inc.

### Scientific Advisory Committee

Steven M. Cramer, Rensselaer Polytechnic Institute  
Alan K. Hunter, Pfizer, Inc.  
Alois Jungbauer, BOKU, Vienna  
Abraham M. Lenhoff, University of Delaware  
Marco Mazzotti, ETH Zurich  
Kathleen Muhlbachler, Bristol-Myers Squibb, Co.  
Larry Miller, Amgen, Inc.  
Massimo Morbidelli, ETH Zurich  
Joan Newburger, Johnson & Johnson Consumer Products Worldwide  
Neville G. Pinto, University of Cincinnati  
David Robbins, MedImmune, Inc.  
Andreas Seidel-Morgenstern, Max-Planck Institute, Magdeburg

### Industrial Advisory Committee

Russell Frost, Bio-Rad Laboratories, Inc.  
Geoffrey B. Cox, Chiral Technologies, Inc.  
Eric Valery, NovaSep SAS  
Ian Sellick, Pall Life Sciences, Inc.  
Gary W. Yanik, PDR-Chiral, Inc.  
Franco Spoldi, PerkinElmer LAS, Inc.  
Lou Bellafiore, Technikrom, Inc.

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## KEYNOTE SESSIONS

With the support of the Organizing, Scientific, and Industrial Advisory Committees, several special sessions highlighting topics of particular and emerging importance are being developed for PREP 2009. These sessions will include both invited and

unsolicited papers. A primary goal of these sessions is to address not just current solutions to practical chromatographic separations, but also to discuss future challenges for manufacturers as well as for media and equipment suppliers. The following tentative keynote sessions are currently being planned. If you would like to participate or suggest a new topic, please, contact the PREP 2009 Symposium at [janetbarr@aol.com](mailto:janetbarr@aol.com).

### High Throughput Chromatographic Purification to Support Drug Discovery

This session will focus on the emerging frontier of high-throughput purification to support drug discovery, where thousands of compounds are separated at milligram scale, rather than single compounds at kilogram and larger scales.

### Industrial Case Study Session on Protein Chromatography

The topical coverage for this session is broadly defined in the area of protein chromatography at the manufacturing scale. Examples of suitable topics are rational process development, scale-up issues from the lab to the manufacturing scale, integration of PAT tools, optimization of column design and operating conditions, economic factors, and applications of new column technologies.

### Industrial and Academic Case Study on Synthetic Peptide Purifications

This session focuses on a broad range of topics in preparative chromatography for the separation of synthetic peptide mixtures. Topics include advances in HPLC-RP chromatography for peptides, SFC, purifications via continuous processing, and implementing quality by design in peptide purification.

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## SCIENTIFIC PROGRAM

The PREP 2009 Scientific Program will comprise oral and poster sessions providing opportunities to industry, academia and government to share the latest developments in preparative and process chromatography, and to see how the latest products and technologies are driving the pace of innovation in scientific research. General areas of application include the following:

- Preparative HPLC
- Protein chromatography
- Biopharmaceuticals
- Chiral molecules
- Fine chemicals
- Active pharmaceutical ingredients
- Monoclonal antibodies
- Peptides
- Plasmids
- Vaccines
- Amino acids
- Sugars

However, since preparative/process chromatography continues to expand in new and emerging fields, the list above is by no means inclusive.

### PRELIMINARY LIST OF SESSION TOPICS

Keynote, general and industrial case study sessions will address topics of importance to a broad range of chromatographers and separation scientists. Contributions from industry, academia and government are strongly encouraged. Please see the preliminary list of session topics below:

- **Prep chromatography in Pharmaceutical Discovery and Development**
- **Prep Chromatography of Peptides**
- **New and Improved Stationary Phases for Small and Large Molecules**
- **Chromatographic Bioseparations**
- **Monoliths and Membrane Chromatography**
- **Continuous Chromatography and SMB Systems**
- **Advances in the Theory of Chromatography**
- **Optimization of Chromatographic Separations**
- **New and Improved Experimental Techniques**
- **Product Quality and Productivity by Chromatographic Process Design**
- **High-throughput Screening of Stationary Phases**

Additional sessions will be scheduled dependent on the abstracts received

### ABSTRACT SUBMISSIONS

To submit abstracts to any of these sessions, please go to the link to "Abstract Submission" on the web site at [www.prepsymposium.org](http://www.prepsymposium.org). If you are unsure about the suitability of your topic, please contact the PREP Symposium at [janetbarr@aol.com](mailto:janetbarr@aol.com). The deadline to submit Oral and Poster abstracts is **February 1, 2009**.

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### EXPOSITION

A key part of PREP 2009 is the Exhibit. The program is structured to ensure participants have ample opportunities to meet commercial suppliers and network with them during program sessions, and at coffee breaks and receptions that will be held in the Exhibit Hall on Sunday through Tuesday. Exhibitors will feature state-of-the-art instrumentation, equipment, packing media, columns, etc. in the closely integrated lecture and poster/trade display areas all located on the second floor of the Loews Hotel. Exhibitors will have the opportunity to present one-hour workshops as part of the program. To reserve booth space and/or a workshop, exhibitors should contact the Symposium/Exhibit Manager, Ms. Janet Cunningham, at [janetbarr@aol.com](mailto:janetbarr@aol.com) (phone 301-668-6001).

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### IMPORTANT DATES

<b>February 1, 2009</b>	Abstract deadline for oral and poster presentations
April 1, 2009	Deadline for late-breaking posters
April 2009	Preliminary Program posted
June 1, 2009	Final deadline for poster abstracts
July 19-22, 2009	PREP 2009

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### CONTACT

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