PREP2020 --- A clear vision for the present and future of preparative & process chromatography

PREP2020 will offer four days of exciting science, technology, and education. As the longest running, most recognized international scientific conference and exposition in the field of Preparative and Process Chromatography, PREP2020 is organized by expert scientists and engineers for separation science practitioners. PREP2020 will provide comprehensive coverage of the latest scientific and technological advances, the most critical and emerging applications and processes, and the most pressing challenges and solutions in all areas of preparative and process chromatography featuring world-renowned speakers along with the very best technology suppliers. Attend PREP2020 to:

- Learn how to develop effective solutions to practical preparative and process-scale chromatographic separations.
- Learn how to successfully optimize chromatography processes and minimize costs for the best economic production.
- Present your scientific and technological advances in the Oral and/or Poster Scientific Program.
- Learn about current and future technical and regulatory challenges and opportunities in the industry.
- Evaluate and compare the latest products, instruments, techniques and processes through the extensive Exhibit Program.
- Interact with world leading scientists and engineers covering all aspects of preparative and process chromatography.

**Abstract Submission Deadline Extended to January 27th**

In observance of Martin Luther King Day in the US (Jan. 20th), the abstract submission deadline has been extended to Monday, January 27th. Please, submit your abstracts for oral or poster presentation by this date. Topics include but are not limited to the following:

- Preparative and process scale chromatography
- HPLC, medium, and low-pressure liquid chromatography
- Small-scale preparative chromatography
- Chromatography to support medicinal chemistry
- Stationary phases (SEC, RPC, HIC, IEX, Multimodal, Protein A, Afinity, Hydroxyapatite)
- Membrane chromatography and Monoliths
- Column packing, packing stability, and large-scale columns
- Laboratory equipment and process scale systems
- Simulated Moving Bed and multicolumn processes
- Continuous and integrated processing
- Single use equipment and flexible processes
- Advanced monitoring of chromatographic processes
- Supercritical Fluid Chromatography (SFC)
- CPC and countercurrent chromatography
- Experimental methods for process development
- Fundamentals, Modeling, Optimization, and Economics
- Mechanistic modeling tools and software
- High throughput screening (HTS) and HTPD
- Quality by Design (QbD) and Design of Experiments (DoE)
- Regulatory aspects and process validation
- Data science approaches in chromatography
- Viral clearance aspects
- Environmental sustainability - process intensification, solvent and energy reduction
- Fine chemicals and active pharmaceutical ingredients
- Chiral molecules
- Peptides and oligonucleotides
- Proteins, mAbs, ADCs, fusion proteins and conjugates, and other biopharmaceuticals
- Biosimilars
- Plasmids, Virus, VLPs and other large bioparticles
- Vaccines
- Cell separations for cell therapy and other applications
- Amino acids
- Sugars
- Rare earths
- Natural products

All abstracts will be reviewed and rated by the Scientific Committee for acceptance and placement in the scientific program.

**New Tutorial Announced: “3D Printing in Separation Science”**

This new tutorial lead by Simone Dimartino (U. Edinburgh), an internationally recognized leader in the field, offers an overview of how 3D printing is impacting separation science, in general, and chromatography, in particular. 3D printing can seamlessly create bespoke models with complex shapes, using a range of materials, and with resolution that can reach the submicron-scale. This capability opens a new way to fabricate stationary phases, column housings, filtration elements, extraction units and other devices of relevance to separation science.
Training Workshops and Tutorials

The Sunday Training Workshops provide in-depth coverage of both fundamentals and real-world applications of preparative chromatography for biomolecules and for small and intermediate molecules. The Monday and Tuesday morning Tutorials address more specialized topics. For further details, visit http://www.prepsymposium.org/workshop-tutorial.html

<table>
<thead>
<tr>
<th>Workshop 1: Sunday, 9:00 AM – 1:00 PM</th>
<th>Workshop 2: Sunday, 2:00 PM – 6:00 PM</th>
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<tr>
<td><strong>Workshop leaders:</strong> G. Carta, U. Virginia; A. Jungbauer, BOKU, Vienna; M. Morbidelli, Politecnico di Milano, Italy</td>
<td><strong>Workshop leaders:</strong> O. Dapremont, Ampac Fine Chemicals; G. Cox, Consultant</td>
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<tr>
<td><strong>Fundamentals of Prep Chromatography for Biomolecules by Batch and Continuous Chromatography</strong></td>
<td><strong>Fundamentals of Prep Chromatography for Small &amp; Intermediate Size APIs by Batch Chromatography, SMB, and SFC</strong></td>
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<tr>
<th>Tutorial 1: Monday, 7:00-8:25 AM</th>
<th>Tutorial 2: Tuesday, 7:00-8:25 AM</th>
<th>Tutorial 3: Wednesday, 7:00-8:25 AM</th>
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<td><strong>Tips, Tricks, and Troubleshooting Analytical and Overloaded Preparative Chromatography</strong></td>
<td><strong>Practical Concepts on Process Characterization and Validation of Biopharmaceuticals based on QbD Principles</strong></td>
<td><strong>3D Printing in Separation Science</strong></td>
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Exhibit and Vendor Workshops

The 2-1/2 day Exhibit (Sunday evening through Tuesday evening) will provide access to the latest in chromatographic media, equipment, and services with ample opportunities to meet commercial suppliers in the closely integrated poster/trade show display areas. Exhibitors and sponsors have the opportunity to present sponsored workshops that are free to Symposium participants.

Keynote Sessions

**Industrial Case Studies in Protein Chromatography** (Co-Chairs: T. Pabst and A. Hunter, AstraZeneca)

**Regulatory and Data Science Perspectives in Prep Chromatography** (Chair: L. Beaver, LAB Enterprises)

**Continuous Chromatography for APIs, Fine Chemicals, and Natural Products** (Co-Chairs: K. Mihlbachler, YMC Process Technologies; A. Seidel-Morgenstern, Max Planck Institute, Magdeburg)

**Continuous and Integrated Processes for Biomolecules** (Chair: S. Kandula, Merck &. Co., Inc.)

**Preparative Chromatography in Drug Discovery, Development, and Manufacture** (Chair: O. Dapremont, Ampac Fine Chemicals)

Poster Sessions

PREP2020 will feature poster sessions on Monday and Tuesday. Best posters prizes will be awarded.

Sponsors

The list of PREP2020 is continuously updated and can be found in the PREPSympsium.org web site. Contact Janet Cunningham (janet@barrconferences.com) and/or Giorgio Carta (gc@virginia.edu) to explore how you can support PREP2020. Corporate sponsors are prominently recognized throughout all phases in preparation to and at the Symposium. Current sponsors include:

Corporate Sponsors

AbbVie | AMPAC Fine Chemicals | AstraZeneca | Bristol-Myers Squibb | Genentech | Pfizer

Gold Sponsors

Purolite Life Sciences

PREP2020 Organizing Committee

Giorgio Carta, University of Virginia (Chair)
Lois Ann Beaver, LAB Enterprises
Chen Wang, AbbVie
Olivier Dapremont, Ampac Fine Chemicals

PREP2020 Symposium/Exhibit Manager

Ms. Janet Cunningham, Barr Enterprises
301-668-6001, janet@barrconferences.com
http://www.linkedin.com/in/BarrEnterprises

Key Dates

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<tr>
<td>January 27, 2020</td>
<td>General abstract submission deadline</td>
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<tr>
<td>February 1, 2020</td>
<td>Early-bird registration at lowest fees</td>
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<tr>
<td>March 31, 2020</td>
<td>Preliminary Program posted</td>
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<tr>
<td>May 1, 2020</td>
<td>Deadline for poster abstracts</td>
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<td>May 15, 2020</td>
<td>Final deadline for last-minute posters</td>
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<td>May 31-June 3</td>
<td>PREP2020, Baltimore</td>
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