

5TH ANNUAL BIOMANUFACTURING SUMMIT AT THE UNIVERSITY OF MASSACHUSETTS, LOWELL MAY 23-24, 2016

This exciting and interactive workshop-style event focused on: **The Future of Biomanufacturing**

Location: [UMass Lowell Inn & Conference Center](#), Lowell, MA

Hosted by: the Biomanufacturing Science and Technology Consortium (BSTC), Massachusetts BioManufacturing Center (MBMC), and the University of Massachusetts, Lowell

Distinguished thought leaders across four sessions presented the changing landscape of biomanufacturing:

1. Cell & Gene Therapeutics, Vaccines;
2. Protein Therapeutics & Analytical
3. Regulatory Sciences, Standardization and Workforce Development
4. Protein Therapeutics & Formulation

It was a chance to interact with professionals and leaders of the biopharmaceutical industry on current biomanufacturing challenges and breakthrough technologies.

- Emerging Technology and New Therapeutics
- Regulatory Sciences and Standardization
- Industry Practices and New Trends in PAT, QbD, Quality Metrics, and Process Validation
- Integrated Continuous Manufacturing Systems

- Synthetic Biology in Biomanufacturing

It was also a chance to network with professionals from major biopharmaceutical manufacturers and a variety of technology providers.

PLENARY SPEAKERS

- Tim Charlebois, Ph.D., Vice President, BioTherapeutics Pharmaceutical Sciences, Technology & Innovation, Pfizer
- Larry Lee, Ph.D., Acting Director, Food and Drug Administration, Center for Drug Evaluation and Research, Office of Pharmaceutical Quality, Immediate Office

SESSION PRESENTERS

- Barbara Thorne, Ph.D., Consultant, Thorne Bio-Consulting LLC
- David Knop, Ph.D., Executive Director, Process Development, Applied Genetic Technologies Corporation (AGTC)
- Erika M. McAfee, M.S., Scientist, Lonza Walkersville
- Krishnendu Roy, Ph.D., Professor of Biomedical Engineering, Georgia Tech
- Sadettin S. Ozturk, Ph.D., Deputy Director, Process Development, MassBiologics
- Wei-Shou Hu, Ph.D., Professor of Chemical Engineering, University of Minnesota
- Anthony J. Sinskey, Ph.D., Professor of Microbiology, Massachusetts Institute of Technology
- Alex Lazar, Ph.D., Head of Analytical and Pharmaceutical Sciences, ImmunoGen, Inc.
- John C. Gebler, Ph.D., Director of Biopharma Business Development, Waters Corp
- Patrick Swann, Ph.D., Senior Director, Biogen, Inc.
- Michael J. Betenbaugh, Ph.D., Professor of Chemical and Biomolecular Engineering, Johns Hopkins University
- Rajesh Beri, Ph.D., Technical Director R&T, BioManufacturing, Lonza Biologics
- Michael J. Tarlov, Ph.D., Chief, Biomolecular Measurement Division, NIST
- Jean Hu-Primmer, M.S., Health Scientist and Senior Advisor for Continuous Manufacturing, Influenza Division, BARDA/ASPR
- Kamal Rashid, Ph.D., Director and Research Professor, Biomanufacturing Education and Training Center, Worcester Polytechnic Institute

- M. Nazmul Karim, Ph.D., Professor of Chemical Engineering, Texas A&M University
- Abraham Lenhoff, Ph.D., Professor of Chemical Engineering, University of Delaware
- Robert S. Gronke, Ph.D., Senior Principal Scientist, Biogen, Inc.
- Steve Cramer, Ph.D., William Weightman Walker Professor of Chemical and Biological Engineering, Rensselaer Polytechnic Institute
- Ruben Carbonell, Ph.D., Director, Biomanufacturing Training and Education Center (BTEC), NC State University
- Michael Phillips, Ph.D., Director, Next Generation BioProcessing R&D, EMD Millipore
- Rachel Kroe-Barrett, Ph.D., Immune Modulation and Biotherapeutics Discovery, Director, Biophysics, Boehringer Ingelheim Pharmaceuticals

INTEGRATED CONTINUOUS BIOMANUFACTURING (MAY 18 - 20)

Wednesday – Thursday: 8 a.m. – 5 p.m.

Friday: 8 a.m. – Noon

- USP/DSP Technology and Practices
- Continuous Cell Culture Technology
- Commercial Technology SMB & PCC
- Systems Technology
- Modeling and Simulation

PAT AND QBD PRINCIPLES IN BIOPHARMACEUTICALS (MAY 25 - 27)

Wednesday – Thursday: 8 a.m. – 5 p.m.

Friday: 8 a.m. – Noon

- Multivariate Data Analysis
- Principal Component Analysis and Application
- Partial Least Squares
- Batch Modelling
- Batch Evolution Modeling
- CQA Prediction

- DOE Concepts

GUIDELINES FOR THE ABSTRACT SUBMISSION

1. The abstract should be between 200-250 words
2. It should have an introductory statement that outlines the background and significance of the study
3. A succinct description of the basic methodologies/models used in the study
4. A clear indication of the major findings of the study
5. A concluding statement
6. Graphical abstracts are also accepted

GUIDELINES FOR THE POSTER SUBMISSION

1. All poster presentations are displayed at the UMass Lowell Inn and Conference Center in the hallway outside the Grand Ballroom.
2. Presenting authors are kindly asked to be available to present their poster during the poster session on Tuesday, May 24th from 5:10 p.m. to 7:00 p.m.
3. Symposium organizers will provide a poster stand for each presentation. All posters are to be mounted in the hallway outside of the grand ballroom on Tuesday, May 24th, between 7:30 a.m. and 8:30 a.m. We are asking participants to take down his/her poster down at 7:10 pm.
4. The poster dimensions should be 36' H x 40' W and printed on professional poster paper.
5. Each poster will be mounted on the poster stand. Thumbtacks will be available on-site for mounting the displays.
6. Materials should i
7. May 23-24, 2016: Workshop on "Future Biomanufacturing"
8. May 18-20, 2016: Advanced Training on Integrated Continuous Biomanufacturing
9. May 25-27, 2016: Advanced Training on PAT and QbD Principles in Biopharmaceuticals

LOCATION:

UMass Lowell Inn and Conference Center
50 Warren Street

Lowell, MA 01852

Phone number: 978-934-6920