

TD: Developing Value Through Synergistic Collaboration

How To Use This Index: Scroll down or use the bookmarks in the navigation pane at left to move to a new location in this index. Click on a [blue paper title](#) to view that paper. To return to this index after viewing a paper, click the “Previous Menu” bookmark in the navigation pane.

Session 161 - Early Stage Venture Creation: New Prospects for Chemical Engineers: Part I

Chair: R. Michael Raab

Vice Chair: David Putnam

161a [Patenting Your Collaborative Venture](#)

Neal Seth

161b [The Intellectual Property Landscape of the Human Genome](#)

Kyle L. Jensen

Fiona Murray

161c [Research and Development Funding Opportunities through the United States Department of Agriculture - Small Business Innovation Research \(Sbir\) Program](#)

William R. Goldner

161d [The Role of University Technology Licensing in Early Stage Ventures](#)

Ellen Purpus

161e [Challenges in University Ventures: Best Practices for New Technology Startups](#)

Karl Ruping

161f [Risk Management in Early Stage Ventures](#)

Robert C. Reintjes

Jagdish C. Agarwal

Session 212 - Early Stage Venture Creation: New Prospects for Chemical Engineers, Part II

Chair: R. Michael Raab

Vice Chair: David Putnam

212a [The Role of Competitive Intelligence in Biotech Start-Ups](#)

Salvador Carlucci

Anthony Page

David Finegold

212b [Networks of Hub Scientists in Commercializing Science from Academia, with a Case Study on the Langer Lab](#)

Eugene Chiu

Fiona Murray

Robert Langer

212c [A New Business Strategy for Startup Biotechnology Firms](#)

Todd C. Zion

Thomas M. Lancaster

212d Agrivida: the Development of an Early Stage Agricultural Biotechnology Company

*Jeremy C. Johnson
Karl Ruping
Humberto De la Vega
Kyle L. Jensen
R. Michael Raab*

212e New Enterprises for Socially Responsible Treatments

Jay D. Keasling

Session 280 - Rapid Process Scale-Up through Unique Partnerships

Chair: Cawas A. Cooper

Vice Chair: Gautham Parthasarathy

280a Academia, Small Business Partnership Leading to New Product Development Based on Intellectual Property

*Mukund Karanjikar
Bruce J. Tatarchuk*

280b Catalyst Selection for the Hydrosilylation Synthesis

*David Parrillo
Kenrick M. Lewis
Manish Badani
TL Prabhakar
Raghuram Rao*

280c International Collaborations in the Field of Laboratory- and Pilot-Scale Micro-Reactor Plants

*Ulrich Krttschil
Volker Hessel
Gunther Kolb
Patrick Löb
Holger Löwe
Bernd Werner*

280d Outsourcing Scaleup: Developing Value through Synergistic Collaboration

*Beth W. Dryden
Andy Cannizzaro
Lawrence J. Rosen*

280e Why Scale-up Still Matters

*M.P. Dudukovic
Muthanna H. Al-Dahhan*

Panel Discussion on Process Development Collaborations

*Cawas A. Cooper
Gautham Parthasarathy*

Session 329 - Innovative Modeling and Data Analysis

Chair: Dr. Debashis Neogi

Vice Chair: Dr. Salvador García Muñoz

329a Optimization of Batch Processes Using Data Driven Latent Variable Models

Salvador García-Munoz

Debashis Neogi

Sanjay Mehta

John MacGregor

Theodora Kourti

329b Efficiently Achieving Consensus by Using Time Wisely

R. Dean Malmgren

Daniel Diermeier

Julio M. Ottino

Luis A. N. Amaral

329c Balancing Structure, Partners, and Goals to Achieve Strategic Fit in Collaborative Product and Process Development

Irene J. Petrick

329d Exploring New Business Opportunities through an Innovative Collaboration between Industry and Academia: Leveraging Advances in Optimization with a Market Model for Cap & Trade Emissions Compliance

Mark M. Daichendt

Ali Esmaili

Derrick Schertz

Joseph F. Pekny

Panel Discussion on Alligning Industries and Universities for Synergistic Collaborations in the Area of Modeling and Data Analysis

Debashis Neogi

Salvador García-Munoz

Session 377 - Successful Collaborations between Government, Academia and Industry

Chair: Rosemarie D. Wesson

Vice Chair: Eldon R. Larsen

377a From Academic Soot Research to Commercial Synthesis of Single-Walled Carbon Nanotubes

Henning Richter

Jack B. Howard

John B. Vander Sande

377b Big Company + Small Company Are Good Company: Examples from the U.S. Department of Energy's Industrial Technologies Program

Tyler B. Thompson

377c Small Business/University Collaboration on a National Science Foundation Sttr Program on PEM Fuel Cell Manufacturing

Maria Inman

Branko Popov

Chung-Chiun Liu

Holly Garich

E. Jennings Taylor

- 377d** **Collaboration between Academia and Industry through the Sbir/Sttr Programs-an Academic Faculty Member's Perspective**
C. C. Liu
Maria Inman
- 377e** **Acoustic Nanocavitation**
Sameer I. Madanshetty
- 377f** **The Institute for Collaborative Biotechnologies: a Powerful Alliance between Academia, Industry, and the Army**
David H. Gay

Session 417 - Panel Discussion--Developing Value Through Synergistic Collaboration

Chair: Eldon R. Larsen

Vice Chair: Rosemarie D. Wesson

- 417a** **The Context and Cognition of Opportunity Recognition: a Perspective on Science Researchers**
Alice De Koning
David L. Deeds
- 417b** **How to Get along and Get a Lot**
Tyler B. Thompson
- 417c** **Developing Value through Synergistic University / Industry Collaborations**
Erik Sander
- 417d** **Small Business – Bridging the Innovation Gap**
E. Jennings Taylor
Maria Inman
Phillip Miller
- 417e** **Partnering: Strategies and Examples**
Vincent L. Magnotta
John Tao Dr.
- 417f** **Session Panel Discussion**
Eldon R. Larsen