

# ISCRE 21

21<sup>st</sup> International Symposium on Chemical Reaction Engineering

Sunday June 13th - Wednesday June 16th, 2010

Loews Philadelphia Hotel, Philadelphia, PA, USA



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[CRE: Addressing resource sustainability, environmental and life science challenges](#)

## Conference Program Overview

*(click on items in blue to see additional details)*

### Sunday, June 13, 2010

- 1:00 - 7:00 P Meeting Registration (Mezzanine level, Regency pre-function space)
- 6:00 - 6:10 P Welcome Remarks (Regency Ballroom B)
- 6:10 - 7:00 P Conference Keynote: Dr James Katzer. (Regency Ballroom B)  
[Sustainable RD & D](#)
- 7:00 - 8:30 P Welcome Reception (33<sup>rd</sup> Floor)

### Monday, June 14, 2010

- 7:30 - 9:00 A Meeting Registration (Mezzanine level, Regency pre-function space)
- 8:00 - 8:10 A Introductory Remarks (Regency Ballroom B)
- 8:10 - 8:55 A Conference Plenary, Prof. Bala Subramaniam. (Regency Ballroom B)  
[Exploiting the Synergies Between Catalysis and Neoteric Solvents for Sustainable CRE: Opportunities and Challenges](#)
- 8:55 - 9:05 A Conference Announcements (Regency Ballroom B)
- 9:05 - 9:50 A Conference Plenary, Prof. Kai Sundmacher. (Regency Ballroom B)  
[Fuel cell engineering: towards the design of efficient electrochemical power plants](#)
- 9:50 - 10:20 A Coffee Break
- 10:20 A - Noon **Parallel Sessions** (5 presentations each):
  - 1. [Membrane Reactors and Fuel Cells](#) (Regency Ballroom B)
  - 2. [Process Intensification](#) (Regency Ballroom C1)
  - 3. [Environmental Reaction Engineering I](#) (Regency Ballroom A)
  - 4. [Novel Functional & High Value Added Materials](#) (Regency Ballroom C2)
- 12:00 - 1:30 P Lunch Break
- 1:30 - 3:50 P **Parallel Sessions** (7 presentations each):
  - 5. [Reaction Path Analysis](#) (Regency Ballroom C1)
  - 6. [Design, Dynamics and Control of Chemical Reactors](#) (Regency Ballroom B)
  - 7. [Environmental Reaction Engineering II](#) (Regency Ballroom A)
  - 8. [Multiphase and Reacting Flows I](#) (Regency Ballroom C2)
- 4:00 - 6:00 P **Poster Session I** (Millennium Hall)
  - P1. [Reaction Path Analysis](#)

- P2. [Design & Dynamics of Chemical Reactors](#)
- P3. [Environmental Reaction Engineering](#)
- P4. [Membrane Reactors and Fuel Cells](#)
- P5. [Microreactors](#)
- P6. [Computational Catalysis and Rational Design of Catalysts](#)
- P7. [Novel Functional Materials](#)

6:00 - 7:30 P Business Meeting EFCE Working Party Chemical Reaction Engineering (Regency Ballroom C1)

### Tuesday, June 15, 2010

- 7:30 - 9:00 A Meeting Registration (Mezzanine level, Regency pre-function space)
- 8:00 - 8:10 A Conference Announcements (Regency Ballroom B)
- 8:10 - 8:55 A Conference Plenary, Prof. Brent Shanks. (Regency Ballroom B)  
[Conversion of Biorenewable Feedstocks: New Challenges in Heterogeneous Catalysis](#)
- 8:55 - 9:05 A Remarks on ISCRE 22, Jaap Schouten (Regency Ballroom B)
- 9:05 - 9:50 A Conference Plenary, Prof. Matthew Neurock. (Regency Ballroom B)  
[Engineering Molecular Transformations for Sustainable Energy Conversion](#)
- 9:50 - 10:20 A Coffee Break
- 10:20 A - Noon **Parallel Sessions** (5 presentations each):
  - 9. [Bio-derived Chemicals & Fuels I](#) (Regency Ballroom B)
  - 10. [Microreactors I](#) (Regency Ballroom A)
  - 11. [Multiphase & Reacting Flows II](#) (Regency Ballroom C2)
  - 12. [Computational Catalysis](#) (Regency Ballroom C1)
- 12:00 - 1:30 P Lunch Break
- 1:30 - 3:30 P **Parallel Sessions** (6 presentations each):
  - 13. [Bio-derived Chemicals & Fuels II](#) (Regency Ballroom B)
  - 14. [Microreactors II](#) (Regency Ballroom A)
  - 15. [Multiphase & Reacting Flows III](#) (Regency Ballroom C2)
  - 16. [Hydrogen Production and Utilization](#) (Regency Ballroom C1)
- 3:30 - 5:30 P **Poster Session II** (Millennium Hall)
  - P8. [Bio-derived Chemicals and Fuels](#)
  - P9. [Clean Coal, CO<sub>2</sub> Capture and Chemical Looping](#)
  - P10. [Hydrogen Production & Utilization](#)
  - P11. [Process Intensification](#)
  - P12. [Multiphase and Reacting Flows](#)
  - P13. [Polymerization Reaction Engineering](#)
- 7:00 -10:00 P Conference Banquet (location: [TRUST](#), 249 Arch St.; phone: 215-592-8400)

### Wednesday, June 16, 2010

- 8:30 - 9:15 A Conference Plenary, Prof. L.-S. Fan. (Regency Ballroom B)  
[Chemical Looping Technology for Fossil Fuel Conversion](#)
- 9:15 - 9:45 A Coffee Break

9:45 - 11:25 A **Parallel Sessions** (5 presentations each):

17. [Clean Coal](#) (Regency Ballroom A)

18. [CO<sub>2</sub> Capture & Utilization](#) (Regency Ballroom B)

19. [Multiphase & Reacting Flows IV](#) (Regency Ballroom C2)

20. [Rational Design of Catalysts](#) (Regency Ballroom C1)

11:30 A - Noon **Conference Summary** (Regency Ballroom B)

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