

**NanoFocus and Bioenergy
Oklahoma EPSCoR Annual State Conference 2009
Skirvin Hotel, Oklahoma City
March 31-April 1, 2009**

TENTATIVE AGENDA

DAY 1

Tuesday, March 31

8:00 a.m. Registration & Continental Breakfast

Opening Plenary Session

9:00 a.m. Welcome & Opening Remarks

Frank Waxman, Director, Oklahoma Experimental Program to Stimulate Competitive Research
Jim D. Mason, Executive Director, Oklahoma NanoTechnology Initiative, The State Chamber

9:05 a.m. *Debra Rolison*, Section Head, Advanced Electrochemical Materials, Naval Research Laboratory and Adjunct Professor of Chemistry, University of Utah

9:45 a.m. *Daniel Resasco*, Douglas and Hilda Bourne Chair, George Lynn Cross Professor, School of Chemical, Biological and Materials Engineering, University of Oklahoma

10:25 a.m. Networking Break

10:45 a.m. Breakout Sessions (Nanotechnology or Bioenergy)

Nanotechnology Session I

10:45 a.m. **“Composite Materials,”** *Ramanan Krishnamoorti*, Professor, Department of Chemical Engineering and Department of Chemistry, Associate Dean for Research, Cullen College of Engineering, University of Houston

11:15 a.m. **“Standardization of Nanotube Materials,”** *Jeff Fagan*, Chemical Engineer, Polymers Division, Processing Characterization Group, National Institute of Standards and Technology (NIST)

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Tentative Agenda - Continued

Nanotechnology Session I (continued)

11:45 a.m. **“Nanobatteries,”** *Dale Teeters*, Professor, Department of Chemistry, The University of Tulsa

Bioenergy Session I

10:45 a.m. **"Designing Bioenergy Sorghum through Genomics-Assisted Breeding,"** *John E. Mullet*, Professor, Department of Biochemistry and Biophysics, Texas A & M University

11:10 a.m. **"Systems Biology Approach to Bioenergy,"** *Terry C. Hazen*, DOE BER Distinguished Scientist, Lawrence Berkeley National Laboratory

11:35 a.m. **“Catalytic Upgrading of Bioderived Liquids and Gases,”** *Kerry M. Dooley*, BASF Corporation Professor, Department of Chemical Engineering, Louisiana State University

12:05 p.m. **Networking Lunch**

12:15 p.m. **Lunch Guest Speaker: TBA**

1:30 p.m. **Breakout Sessions II (Nanotechnology or Bioenergy)**

Nanotechnology Breakout Session II

1:30 p.m. **“Environmental Health and Safety,”** *Terry Medley*, Global Director of Corporate Regulatory Affairs, Environment and Sustainable Growth Center, DuPont

2:00 p.m. **“Oklahoma Nanotechnology Applications Program (ONAP) History and Current Status 2009,”** *Michael Carolina*, Executive Director, Oklahoma Center for the Advancement of Science and Technology

2:20 p.m. **“Proof of Concept 2008 ONAP Recipient,”** *Allen Apblett*, Associate Professor, Department of Chemistry, Oklahoma State University

2:40 p.m. **2008 ONAP Recipient - Charlesson, Inc.**

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Tentative Agenda - Continued

Nanotechnology Breakout Session II (continued)

- 2:50 p.m.** **“Nanostructure Modeling,”** *Alberto Striolo*, Assistant Professor, School of Chemical, Biological and Materials Engineering, University of Oklahoma
- 3:10 p.m.** **“Nano Applications for Alternative Energy,”** *Thomas Henderson*, Assistant Professor of Electronics, Tulsa Community College

Bioenergy Breakout Session II

- 1:30 p.m.** **"Pursuing Industrial Biotechnology Approaches for Bioenergy Solutions,"** *Larry P. Walker*, Professor, Department of Biological and Environmental Engineering, Cornell University
- 1:55 p.m.** **“Building Oklahoma’s Leadership in Cellulosic Bioenergy,”** *Raymond L. Huhnke*, Director, Biobased Products and Energy Center, Oklahoma State University
- 2:10 p.m.** **“Genetic Improvement and Genomics Research in Switchgrass for Biofuel Feedstock Production,”** *Yanqi Wu*, Assistant Professor, Department of Plant and Soil Sciences, Oklahoma State University
- 2:30 p.m.** **“Enhancement of Switchgrass for Bioethanol Production Using Symbiotic Microbes,”** *Kelly D. Craven*, Assistant Professor, Samuel Roberts Noble Research Foundation
- 2:45 p.m.** **“Comparative Genomics of Cellulose-Degrading and Ethanol-Producing Bacteria,”** *Joe (Jizhong) Zhou*, Presidential Professor, Department of Botany and Microbiology, University of Oklahoma
- 3:05 p.m.** **“Heterogeneous Catalytic Upgrading of Pyrolysis Oil Compounds,”** *Lance L. Lobban*, Director of the School of Chemical, Biological and Materials Engineering, University of Oklahoma
- 3:30 p.m.** **Nanotechnology & Bioenergy Poster Session** (Centennial Ballroom)
- 5:00 p.m.** **Cocktail Reception**

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Tentative Agenda - Continued

DAY 2

Wednesday, April 1 (NanoFocus 2009 Only)

8:00 a.m. Registration & Continental Breakfast

Nanotechnology Plenary Session

9:00 a.m. “University Multispectral Laboratories,” *Stephen W. S. McKeever*, Vice President for Research and Technology Transfer, Oklahoma State University

9:20 a.m. Proof of Concept 2008 ONAP Recipient – NanoLight, *Zhisheng Shi*, Professor, Electrical and Computer Engineering, University of Oklahoma

9:40 a.m. “Carbon Nanotube Sensors,” *Yu (Jessie) Mao*, Assistant Professor, Biosystems and Agricultural Engineering, Oklahoma State University

10:00 a.m. “Carbon Nanotube Sensors,” *David Schmidtke*, Associate Professor, School of Chemical, Biological and Materials Engineering, University of Oklahoma

10:20 a.m. Networking Break

10:40 a.m. “Photovoltaics,” EKIPS - 2008 ONAP Recipient, *Patrick J. McCann*, Professor, Electrical and Computer Engineering, University of Oklahoma

11:00 a.m. Confocal Scanning Microscopy - Proof of Concept 2008 ONAP Recipient, *Jean-Marie Verchot-Lubicz*, Associate Professor, Entomology and Plant Pathology, Oklahoma State University

11:20 a.m. XetaComp Nanotechnologies - 2009 ONAP Recipient, *Earl Herring*, General Manager, XetaComp

11:40 a.m. “Nanoindentation,” *Hongbing Lu*, Professor, Mechanical and Aerospace Engineering, Oklahoma State University

12:00 p.m. Networking Lunch

1:00 p.m. Adjourn