



## NanoFocus on Energy: Batteries, Oil, Gas, Solar, and Wind

**April 1-2, 2010 – National Nano Week  
Reed Center Conference Facility**

### **DRAFT Agenda**

#### **Thursday, April 1<sup>st</sup>**

8:00 a.m. - 8:30 a.m.	Registration
8:30 a.m. - 8:35 a.m.	Welcome – Jim Mason, Oklahoma Nanotechnology Initiative
8:35 a.m. - 8:40 a.m.	Intro of Plenary Speaker, Brian Grady, OU
8:40 a.m. - 9:15 a.m.	Plenary Speaker: Lewis Norman, Research Manager, Halliburton Technology Center <i>Nanotechnology Development and Application; The AEC and Halliburton</i>
9:15 a.m. - 9:20 a.m.	Intro of Second Plenary Speaker, Warren Ford, OSU
9:20 a.m. - 9:55 a.m.	Plenary Speaker: Garry Rumbles, National Renewable Energy Lab, <i>Advancing Excitonic Solar Cells through Basic Science</i>
9:55 a.m. - 10:30 a.m.	Break
10:30 a.m. - 10:50 a.m.	Dale Teeters, University of Tulsa, <i>Batteries on the Nanoscale: More Than Just Power Supplies</i>
10:50 a.m. - 11:10 a.m.	Suzanne Behr and Goutham Kirikera, Geophysical Research Company of Tulsa, <i>Downhole Oil Well Sensors</i>
11:10 a.m. - 11:30 a.m.	Ranji Vaidyanathan, OSU Tulsa, <i>Nano Modified Composite Tanks for Natural Gas and Fuels</i>
11:30 a.m. - 11:50 a.m.	Kaan Kalkan, OSU, <i>Nanowire-Nanoparticle Conjugate Photolytic Fuel Generators</i>
12:00 p.m. - 12:30 p.m.	Lunch
12:30 p.m. - 12:45 p.m.	Michael Carolina, Oklahoma Center for the Advancement of Science and Technology (OCAST) <i>Nanotechnology Applications for Oklahoma's Industrial Base</i>
12:45 p.m. - 12:55 p.m.	House of Representatives Speaker: Chris Benge: Nano Champion in the Legislature
12:55 p.m. - 1:30 p.m.	Luncheon keynote – Dr. Regan Stinnett, Sandia National Laboratory, <i>The Nanotechnology Revolution and How You Can Get Involved</i>
1:40 p.m. - 2:00 p.m.	Warren Ford, OSU, <i>Carbon Nanotubes in Photovoltaic Materials</i>
2:00 p.m. - 2:20 p.m.	Patrick McCann, Founder, Phononic Devices, <i>Management of Heat &amp; the Saving of Fuel</i>
2:20 p.m. - 2:40 p.m.	Raman Singh, OSU, <i>Mechanicals of Polymer Nanocomposites</i>
2:40 p.m. - 3:00 p.m.	Frank Blum, OSU, <i>Conducting Polymer Nanocomposites</i>
3:00 p.m. - 3:30 p.m.	Break
3:30 p.m. - 3:50 p.m.	Khalid Hossain, Amethyst Research Inc., <i>Compliant Thin Film Growth on Nano-Engineered Substrates</i>
3:50 p.m. - 4:10 p.m.	Ricardo Prada Silvy, Director, Research and Development, SouthWest NanoTechnologies, <i>Carbon Nanotubes Materials for Energy Applications</i>
4:10 p.m. - 4:30 p.m.	Sheryl Hale, Oklahoma Department of Career and Technology Education, <i>Oklahoma Nanotechnology Education Initiative</i>
5:00 p.m. - 6:00 p.m.	Networking Reception sponsored by the Greater Oklahoma City Chamber

## Friday, April 2<sup>nd</sup>

8:00 a.m. - 8:30 a.m.	Registration
8:30 a.m. - 8:35 a.m.	Welcome - Jim Mason, Oklahoma Nanotechnology Initiative
8:35 a.m. - 8:35 a.m.	Introduction of Plenary Speaker - Warren Ford, OSU
8:40 a.m. - 9:15 a.m.	Plenary Speaker: Matthew Johnson, Director, Materials Research Science and Engineering Center (MRSEC) OU-Arkansas, <a href="#">Nanoscience: Evolution and Revolution</a>
9:15 a.m. - 9:35 a.m.	Dimitrios Papavassiliou, OU, <a href="#">Heat Transport Properties of Nanocomposites</a>
9:35 a.m. - 9:55 a.m.	Isaac Rutel, OUHSC, <a href="#">"Pushing" the Envelope of Nanomedicine</a>
9:55 a.m. - 10:30 a.m.	Break
10:30 a.m. - 10:50 a.m.	Parameswar Hari, TU and Access Optics, <a href="#">Development of ZnO for Optical Detectors and Sensors</a>
10:50 a.m. - 11:10 a.m.	Lloyd Bumm, OU, <a href="#">Scanning Tunneling Microscopy of Chemically Reactive Self-Assembled Monolayers</a>
11:10 a.m. - 11:30 a.m.	Jian-Xing-Ma, OUHSC and Charlesson, LLC., <a href="#">Nano Particle Application for Retinal Disease</a>
11:30 a.m. - 11:50 a.m.	Shaorong Liu, OU, <a href="#">Electro-osmotic Pumping for Micro Flow Analysis</a>
11:50 a.m. - 12:10 a.m.	Kevin Ausman, OSU – <a href="#">Environmental Fates of Nanoparticles</a>
12:15 p.m. - 12:50 p.m.	Lunch
12:50 p.m. - 1:10 p.m.	Luncheon Speaker – Warren Ford: <a href="#">The Oklahoma NanoNet: Past, Present, Future</a>
1:30 p.m. - 3:30 p.m.	Nanotechnology Poster Session sponsored by OCAST
2:30 p.m. - 3:30 p.m.	Refreshments sponsored by the Greater Oklahoma City Chamber
3:30 p.m.	Closing comments and drawing for iPod Nano