

Arizona's 1st Annual

Nanotechnology  
Symposium

March 16th 2006



ARIZONA NANOTECHNOLOGY CLUSTER

Technical Presentations & Panel Discussion in ASML Large Conference Room  
 Breakfast, Refreshments Breaks, Lunch, Reception, & Vendor Displays in Room 120  
**Vendor displays will be showcased throughout the day between 10:00 AM & 4:00 PM**

## MORNING SCHEDULE

<b>A: REGISTRATION AND CONTINENTAL BREAKFAST</b>	7:30 AM – 8:15 AM
<b>B: INTRODUCTION</b> Dr. Kannan Raj - <i>Product Line Manager, Primarion</i>	8:15 AM – 8:20 AM
<b>C: KEYNOTE SESSION</b> <b>Chair:</b> Dr. Sandra Helsel - <i>Helsel &amp; Associates</i>	8:20 AM – 8:25 AM
<b>Topic 1: Keynote Presentation</b> <b>Presenter:</b> Sean Murdock - <i>Executive Director, Nano Business Alliance</i>	8:25 AM – 9:00 AM
<b>D: MORNING SESSION I - NanoElectronics</b> <b>Chair:</b> Tom Innes - <i>Ex Intel Exec. &amp; Board Member, Primarion</i>	9:00 AM – 10:40 AM
<b>Topic 1: Nano-Lithography Challenges</b> <b>Presenter:</b> Dr. Donis Flagello - <i>Technical Fellow, ASML</i>	9:00 AM – 9:25 AM
<b>Topic 2: Manufacturing Challenges in the Nanotechnology World</b> <b>Presenter:</b> Walter Carl Riordan - <i>Principal Engineer, FSM Quality &amp; Reliability, Intel Corp.</i>	9:25 AM – 9:50 AM
<b>Topic 3: Nano Processor Challenges</b> <b>Presenter:</b> Dr. Siva G. Narendra - <i>CTO, Tyfone Inc., Portland</i>	9:50 AM – 10:15 AM
<b>Topic 4: Nanostructured Solid Electrolytes and the Future of Memory</b> <b>Presenter:</b> Dr. Michael Kozicki - <i>Professor EE, ASU &amp; CTO, Axon Technologies</i>	10:15 AM – 10:40 AM
<b>REFRESHMENT BREAK</b>	10:40 AM – 10:55 AM
<b>E: MORNING SESSION II: Nano Devices and Materials I</b> <b>Chair:</b> Dr. Nasser Peygambharian - <i>Chair of Photonics and Lasers, U of A, Tucson</i>	10:55 AM – 12:35 AM
<b>Topic 5: Nanotechnology and New Materials Enabling Fuel Cells</b> <b>Presenter:</b> Dr. Don Gervasio - <i>Associate Professor, Bio-Design Institute, ASU</i>	10:55 AM – 11:20 AM
<b>Topic 6: MEMS &amp; Nanotechnology</b> <b>Presenter:</b> Dr. Stanley Pau - <i>U of A, Tucson</i>	11:20 AM – 11:45 AM
<b>Topic 7: Nano Devices</b> <b>Presenter:</b> Dr. George Maracas - <i>Director, Nanomaterials &amp; Devices, Motorola</i>	11:45 AM – 12:10 AM
<b>LUNCH</b>	12:10 PM – 1:00 PM

- F: AFTERNOON SESSION I: Nano Devices and Materials II** 1:00 PM – 2:15 PM  
**Chair:** Dr. George Maracas - *Motorola*
- Topic 8: Nanostructured Materials for Photonic Applications** 1:00 PM – 1:25 PM  
**Presenter:** Dr. Nasser Peygambharian - *Chair of Photonics and Lasers, U of A, Tucson*
- Topic 9: U of A Micro and Nano Fabrication Facility** 1:25 PM – 1:50 PM  
**Presenter:** Mike Berman - *Manager Nano Fab Facility, U of A, Tucson*
- Topic 10: Nanotechnology Development and Production Equipment: Repurposing IC Manufacturing Equipment** 1:50 PM – 2:15 PM  
**Presenter:** Barrie Van Devender - *President, Axus Technologies*
- G: AFTERNOON SESSION I: Nano Bio-Science** 2:15 PM – 4:00 PM  
**Chair:** Dr. Frederick Zenhausern - *Director, Bio-Design Institute, ASU*
- Topic 11: Nanotech - A Medical Device Manufacturer's Perspective** 2:15 PM – 2:40 PM  
**Presenter:** Dave Ruben - *Technical Fellow, Medtronic Inc.*
- Topic 12: Discovery from Genomics** 2:40 PM – 3:05 PM  
**Presenter:** Dr. Michael E. Berens - *Director Cancer & Cell Biology Division, TGEN*
- Topic 13: Nano Bio Devices** 3:05 PM – 3:30 PM  
**Presenter:** Glen Vaughn - *Chief Technologist, Medtronic Inc.*
- Topic 14: Micro/Nanotechnology for the Extraction of Circulating Metastatic Cancer Cells** 3:30 PM – 3:55 PM  
**Presenter:** Dr. Yitshak Zohar - *U of A, Tucson*
- REFRESHMENT BREAK** 3:55 PM – 4:10 PM
- H: AFTERNOON SESSION II: Entrepreneurs Session** 4:10 PM – 5:10 PM  
**Chair:** Amy Smith - *SVP, Lehman Brothers*
- Topic 15: Active Noise Regulators and Active VLSI Packaging – Power Management for Nanoprocessors** 4:10 PM – 4:20 PM  
**Presenter:** Raj Nair - *CEO, ComLSI*
- Topic 16: Phoenix BioTech Accelerator** 4:20 PM – 4:30 PM  
**Presenter:** Michelle Hanna - *CEO, Ribomed, Phoenix BioTech Accelerator*
- Topic 17: Radiation Hardened Nano Silicon** 4:30 PM – 4:40 PM  
**Presenter:** Russell Graves - *High Reliability Semiconductor Applications, Ridgetop Group*
- Topic 18: Advanced Lasers** 4:40 PM – 4:50 PM  
**Presenter:** Matt Kim - *CEO, QuantTera*
- Topic 19: Carbon Nanotubes** 4:50 PM – 5:00 PM  
**Presenter:** Dr. Loutfy - *MER Corporation, Tucson*
- Topic 20: Nanotech Entrepreneurship** 5:00 PM – 5:10 PM  
**Presenter:** Mark H. Brandt - *Managing Partner, The Maple Fund*
- I: PANEL DISCUSSION: Nurturing Nanotech – Current and Future Emphasis** 5:10 PM – 6:00 PM  
**Moderator:** Peter Slate - *CEO, Arizona Technology Enterprises, LLC*
- Panelist:** Donna Kent - *CEO Arizona Technology Council*  
**Panelist:** Ken Polasko - *Director, UCLA Technology Transfer Office*  
**Panelist:** Alexei Andreev - *Executive VP & Managing Director, Harris & Harris Group, Inc.*  
**Panelist:** Amy Smith - *Senior Vice President, Lehman Brothers*  
**Panelist:** Michelle Hanna - *CEO Ribomed, Phoenix BioTech Accelerator*  
**Panelist:** Natascha Hebell-Fernando - *Arizona Dept. of Commerce*

**J: VOTE OF THANKS**