

Sandia Research & Technology Showcase

SAND2012-7311P

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SAND 2012-xxxxP

Sponsors



cyber
research

Learn about some of the cutting-edge research and technology development taking place at Sandia National Laboratories.



energy

The event will also provide information on doing business with Sandia National Laboratories through licensing, partnerships, procurement, and economic development programs.



.nano &
microsystems



water

Wednesday, September 12, 2012

9:00 am - 4:00 pm

Embassy Suites

1000 Woodward Place NE, Albuquerque, New Mexico 87102

AGENDA

8:30-9:00 Registration and Check-In

9:00-9:20 Welcome

Paul Hommert, President and Laboratories Director, Sandia National Laboratories

9:20-9:50 Research and Development at Sandia National Laboratories

Dennis Croessman, Chief of Staff to the Chief Technology Officer, Sandia National Laboratories

9:50-10:20 Partnerships and Available IP at Sandia National Laboratories

Pete Atherton, Senior Manager for Industry Partnerships, Sandia National Laboratories

10:30-11:00 Morning Poster, Networking & Refreshment Break

11:00-12:00 Industry Partnership Case Study Illustrations

Moderator: John Freisinger, President and CEO, Technology Ventures Corporation

Panelists:

Alan Greenberg, Strategic Marketing Manager, UOP, a Honeywell Company
Mark Rigali, Geochemistry Manager, Sandia National Laboratories
Lawrence Chavez, CEO, Lotus Leaf Coatings, Inc.
Andrew Bartlett, Partner, Drilling Telemetry Systems
Mark Allen, Licensing Manager, Sandia National Laboratories

12:00-12:20 Mid-day Poster and Networking Break

12:20-1:00 Lunch and Conversation

Richard J. Berry, Mayor of Albuquerque
Maggie Hart Stebbins, Bernalillo County Commissioner

1:00-2:00 Utilizing Economic Development Programs at Sandia National Laboratories

Moderator: Jackie Kerby Moore, Technology and Economic Development Manager, Sandia National Laboratories

Panelists:

Hong Hou, President and CEO, EMCORE Corporation
Danny Ruiz, Federal Development Director, Mazda Computing
Thomas Anderson, Founder, Customizabooks
Bruce McCormick, President and Research Director, SAVSU Technologies

2:00-2:10 Looking Forward: Research & Industry Partnerships at Sandia National Laboratories

Steve Rottler, Vice President of Research and Chief Technology Officer, Sandia National Laboratories

2:10-4:00 Afternoon Poster Session, Networking & Refreshments

Julie Phillips, Deputy Chief Technology Officer, Sandia National Laboratories

POSTER SESSION & DEMONSTRATIONS

Cyber Research

- Autonomous Distributed Electrical Power System Defense
- Secure Malware Scanning with CodeSeal
- Identifying Patterns in Network Traffic to Predict and Mitigate Cyber Attacks
- Peering through the Haze: Privacy and Monitoring in the Cloud Computing Paradigm
- Cyber Engineering Research Institute
- Research and Engineering Cyber Operations Intelligence Lab (RECOIL)
- Machine Oriented Biometrics and Cocooning for Dynamic Network Defense
- FIREAXE
- Desert Cloud

Energy Security

- Solar Energy Programs
- Microsystems Enabled Photovoltaics
- Wind Energy Opportunities
- Water Power Technologies and Opportunities
- Sunshine to Petrol
- Genetic Engineering of Cyanobacteria as Biodiesel Feedstock
- Energy Surety Microgrid
- Combustion Research Facility
- Supercritical Carbon Dioxide Brayton Cycle Loop
- SNL Sustainable Site Development & Operations

Nano and Microsystems

- MEMS Inertial and Pressure Sensors
- Biosensors for Environmental Sensing and Medical Diagnostics
- Portable Chemical Sensors for Environmental and State of Health Monitoring

- The Sandia Cooler: A Fundamentally New Approach to Air Cooled Heat Exchangers
- Microsphere Template Gallium Nitride Growth and Liftoff
- Wide-Bandgap Power Electronics
- Solid-State Lighting Science
- Microsystems & Engineering Sciences Applications (MESA)
- CINT: A DOE National User Facility Resource for Research Collaboration
- CINT Highlight: Industrial User Projects to Stimulate Innovation

Water Security

- CANARY: Event Detection Software
- Water Security Toolkit
- Biomimetic Membranes for Water Purification
- Biofouling Resistant Materials for Marine Hydrokinetic Technology and Water Treatment Membranes
- The Human Resilience Index and Modeling Project
- Collaborative Stakeholder-Driven Resource Planning for Water, Energy, Food and Security
- Science Informing Policy Through Collaborative Modeling
- URGSiM Analysis of Climate Risk in the Upper Rio Grande Basin
- Building a National Carbon Dioxide Storage Supply Curve: A Systems Approach Incorporating Geologic Uncertainty

Robotics Demonstrations

- Gemini Scout
- Urban Hopper