



# R&D 100 Awards & Technology Conference

November 12–13, 2015  
Caesars Palace, Las Vegas, NV

## Program-at-a-Glance

**Thursday, November 12, 2015**

**10:00 a.m.**

**Strategic Investment in Disruptive Technologies**

*Vicki Barbur, PhD, Concurrent Technologies Corporation*

**Additive Manufacturing: One Small Step**

*Lonnie Love, PhD, Oak Ridge National Laboratory*

**Human-on-a-Chip: Navigating Stormy Biological Seas**

*John McLean, PhD, Vanderbilt Institute of Chemical Biology*

**Neuroscience and Technology: Next Generation of Neural Interfaces**

*Satinderpall Pannu, PhD, Lawrence Livermore National Laboratory*

**11:15 a.m.**

**R&D Management Complexity in the Next Decade**

*Bradford Goldenese, PhD, Goldenese Group*

**Custom Prototyping in the Lighting Industry: Advanced Technologies and Innovative Manufacturing Processes**

*Tony Holtz, Proto Labs*

**The Laboratory of Things: When Technology Meets Lab**

*Gene Tetreault, BIOVIA*

**The Microscopy Market**

*Barbara Foster, The Microscopy & Imaging Place*

## Thursday, November 12, 2015 Continued

### Focus on Bioengineering

*Babetta Marrone, PhD, Los Alamos National Laboratory*

### Avoiding a Loss in the Lab: Business Continuity Planning for R&D Organizations

*Lester Keizer, Business Continuity Technologies*

### New R&D Tools & Innovations

*David S. Bem, PhD, The Dow Chemical Company*

### 2:15 p.m.

### R&D Alliances: Relational, Portfolio and Network Factors Impacting Outcomes

*Bruce Chehroudi, PhD, Advanced Technology Consultants*

### The Power of Collaboration: Less Risk, Less Cost

*Alex Peng, PhD, Material and Chemical Research Laboratories, ITRI*

### Deductible R&D Costs: The New Regulations Landscape

*Dan Mennel, CPA, Grant Thornton LLP, and Liza Zbarskaya, Senior Manager, Grant Thornton LLP*

### Quality by Design for Drugs

*Amy Lachapelle, QBD Strategies*

### 3:45 p.m.

### **Keynote Session: Innovation for the Energy Challenge**

**Thom Mason, PhD, Director, Oak Ridge National Laboratory**

### 4:30 p.m.

### Global R&D Funding Forecast

## Friday, November 13, 2015

### 9:00 a.m.

### **Keynote Session: Dean Kamen, DEKA Research**

### 10:15 a.m.

### Building a Culture of Innovative Leadership

*Tamara Carleton, PhD, Innovation Leadership Board LLC*

### Emerging Battery Technologies

*Jeff Chamberlain, PhD, Argonne National Laboratory*

**10:15 a.m. Continued**

**Artificial Intelligence in Automation**

*Kyle Reissner, Rockwell Automation*

**Facing the World's Water Crisis: The Future of Wastewater Treatment**

*Rakesh Govind, PhD, PRD Tech, Inc.*

**11:30 a.m.**

**Stranded Technology: Unleashing the Potential**

*William B. White, Offenberger & White*

**Solar Cell Technology: Energizing the World**

*Bill Tumas, PhD, National Renewable Energy Laboratory*

**Robotics in Space Applications**

*Jekan Thanga, PhD, Assistant Professor in the School of Earth and Space Exploration, Arizona State University*

**The Future of Best R&D Practices**

*Daryl Belock, Thermo Fisher Scientific*

**1:30 p.m.**

**Advanced Technologies and Innovation in Action**

*Ted Bostic, PE, Stanley Black & Decker*

**Disruptive Innovation Through Engineering Simulation**

*Larry Williams, PhD, ANSYS*

**Robots in Hazardous Environments: Reimagining Dull, Dirty and Dangerous**

*Brian E. O'Neil, PhD, Los Alamos National Laboratory*

**The Future of Cannabis Testing**

*Scott Kuzdzal, PhD, Shimadzu Scientific Instruments*

**3:00 p.m.**

**Young Mind Awards**

**3:15 p.m.**

**Expert Panel – R&D Innovations and New Technologies: Eye on the Future**

**6:00 p.m.**

**2015 R&D 100 Awards Networking Reception**

**6:45 p.m.**

**2015 R&D 100 Awards Banquet**