



# MEETING AGENDA

Tuesday September 10, 2013

7:30 – 8:30 *Registration and Coffee*

8:30 – 8:35 **INTRODUCTIONS**

**Igor Linkov**, Risk and Decision Science Focus Area Lead, US Army Engineer Research and Development Center, Department of Defense

**Trey Thomas**, Toxicologist Office of Hazard Identification and Reduction, Consumer Product Safety Commission

**Jeff Steevens**, Senior Scientist, US Army Engineer Research and Development Center, Department of Defense

8:35 – 8:50 **WELCOME, NNI OVERVIEW, and CHARGE TO PARTICIPANTS**

**Altaf Carim**, Assistant Director for Nanotechnology, Office of Science and Technology Policy, Executive Office of the President

8:50 – 9:00 **ACTIVITIES SINCE THE 2010 NNI CAPSTONE MEETING and EXPECTATIONS**

**Trey Thomas**, Toxicologist Office of Hazard Identification and Reduction, Consumer Product Safety Commission

---

SESSION 1: *A Snapshot on the Perception, Assessment, and Management of the Potential Risks of Nanotechnology*

Moderator: **Mark Wiesner**, James L. Meriam Professor, Duke University

---

9:00 – 9:20 **The Next Steps in Risk Management of Nanomaterials: A Perspective from Industry**

**Stephen Gibbons**, Director of Technology, Brewer Science, Inc.

9:20 – 9:40 **A Perspective from the Consumer Community**

**Michael Hansen**, Senior Staff Scientist, Consumers Union

9:40 – 10:00 **A Labor Perspective on the Assessment and Management of the Potential Risks of Nanotechnology**

**Darius Sivin**, International Representative at the International Union, United Automobile, Aerospace and Agricultural Implement Workers of America

---

10:00 – 10:20 *Coffee Break*

---

10:20 – 10:40 **The Role of Standards in Addressing Issues Relating to Risk**

**Ajit Jillavenkatesa**, Senior Standards Policy Adviser with the Standards Coordination Office at the National Institute of Standards and Technology

10:40 – 11:00 **Assessment and Management of Nano Risk: A Regulatory Perspective**

**Timothy F. Malloy**, Professor of Law Faculty Director, University of California Los Angeles Sustainable Technology and Policy Program



# MEETING AGENDA (Cont.)

Tuesday September 10, 2013

11:00 – 11:20 **A Greenscreen™ Hazard Assessment Approach for Nanomaterials – Case Study of Nanosilver**

**Jennifer Sass**, Senior Scientist in the Health and Environment program of the Natural Resources Defense Council

11:20 – 11:50 **DISCUSSION WITH PANEL OF MORNING SPEAKERS**

11:50 – 12:00 **CHARGE TO BREAKOUT PARTICIPANTS**

**Jeff Steevens**, Senior Scientist, US Army Engineer Research and Development Center, Department of Defense

---

12:00 – 13:00 *Lunch (on your own)*

---

---

SESSION 2: *Breakout Session, PART 1*

(Allow for Coffee Break from 14:30-15:00)

---

13:00 – 16:00 **PARALLEL BREAKOUT SESSIONS BY TYPE OF DECISION**

**Group 1: Occupational Risk Analysis and Decision Making**

Chairs: **Paul A. Schulte**, Director, Education and Information Division, The National Institute for Occupational Safety and Health

**Bruce Lippy**, Director of Safety Research, CPWR, The Center for Construction Research and Training

**Group 2: Commercial Product Life Cycle Stage**

Chairs: **Rick Canady**, Director, Center for Human Health Risk Assessment Research Foundation, International Life Sciences Institute

**Todd Kuiken**, Senior Research Associate with the Science and Technology Innovation Program at the Woodrow Wilson International Centre for Scholars

**Group 3: Environmental Life Cycle Implications**

Chairs: **Tom Seager**, Associate Professor of in the School of Sustainable Engineering, Director of Sustainable Engineering and Environmental Decision Sciences (SEEDS) at Arizona State University

**Matthew Hull**, Program Manager for the Nanoscale Science and Engineering and Nano-Bio Interface Research Thrusts, Institute for Critical Technology and Applied Science (ICTAS), Virginia Polytechnic Institute and State University

---

16:00 – 16:30 *Coffee Break*

---

SESSION 3: *Report Back and Synthesis Conversation*

Moderators: **Trey Thomas**, Toxicologist Office of Hazard Identification and Reduction, Consumer Product Safety Commission,  
**Christine Hendren**, Executive Director of the Center for the Environmental Implications of NanoTechnology, Duke University

---

16:30 – 17:00 **SUMMARY OF BREAKOUT SESSIONS**

*Breakout Session Co-Chairs*

17:00 – 17:15 **DISCUSSION and PUBLIC COMMENTS**



# MEETING AGENDA

Wednesday September 11, 2013

8:00 – 8:30 *Coffee*

8:30 – 8:45

## **RECAP OF DAY 1 and INSTRUCTIONS FOR DAY 2**

**Igor Linkov**, Risk and Decision Science Focus Area Lead, US Army Engineer Research and Development Center, Department of Defense

---

## SESSION 4: *Keynote Perspectives on Risk Analysis*

Moderator: **Igor Linkov**, Risk and Decision Science Focus Area Lead, US Army Engineer Research and Development Center, Department of Defense

8:45 – 9:15

### **Risk Analysis**

**Baruch Fischhoff**, Howard Heinz University Professor, Social and Decision Sciences and Engineering and Public Policy Head, Decision Sciences Major, Carnegie Mellon University

9:15 – 9:45

### **Nanotechnology Multi-Stakeholder Risk Perception: Implications for Risk Analysis, Management, and Communication**

**Barbara Herr Harthorn**, Principal Investigator and Director of the Center for Nanotechnology in Society, Professor of Anthropology, University of California Santa Barbara

---

9:45 – 10:15 *Coffee Break*

---

## SESSION 5: *Breakout Session, PART 2*

10:15 – 12:15 **PARALLEL BREAKOUT SESSIONS BY TYPE OF DECISION MAKER**

### **Group 1: The Research Community**

Chairs: **Christie Sayes**, Program Manager, Research Triangle Institute  
**Jackie Isaacs**, Professor of Mechanical and Industrial Engineering, Northeastern University

### **Group 2: The Regulatory Community**

Chairs: **Janet Carter**, Health Scientist and Acting Director, Office of Biological Hazards, Occupational Safety and Health Administration  
**Rick Reibstein**, Environmental Analyst, Outreach and Policy Manager, Massachusetts Office of Technical Assistance

### **Group 3: The Nanomanufacturing Community**

Chairs: **Ahmed Busnaina**, William Lincoln Smith Chair Professor and Director, Northeastern University  
**Craig Bandes**, President and CEO, Pixelligent Technologies

### **Group 4: The Small Business Community**

Chairs: **Doyle Edwards**, Director of Business Development, Brewer Science, Inc.,  
**Rick Pleus**, Managing Director and Toxicologist at Toxicologist, Intertox, Inc.



# MEETING AGENDA (Cont.)

Wednesday September 11, 2013

---

SESSION 5: Breakout Session, PART 2 (Cont.)

---

10:15 – 12:15 **PARALLEL BREAKOUT SESSIONS BY TYPE OF DECISION MAKER (Cont.)**

**Group 5: The Financial Risk Community**

Chairs: **Martha Marrapese**, Partner at Keller and Heckman LLP  
**Clayton Shoup**, Workers' Compensation Line of Business Director, Zurich North America Risk Engineering

Occupational Safety and Health  
**David M. Berube**, Professor of Communications and Director, North Carolina State University

**Group 6: Other Public Communities**

Chairs: **Charles Geraci**, Senior Scientist and Coordinator of the Nanotechnology Research Center, the National Institute for

**Group 7: The NGO Community**

Chairs: **Terry Gordon**, Professor of Environmental Medicine at New York University, Chair of the American Conference of Governmental Industrial Hygienists  
**Carolyn Cairns**, Independent Consultant

---

SESSION 7: Report Back and Synthesis Conversation

Moderators: **Jeff Stevens**, Senior Scientist, US Army Engineer Research and Development Center, Department of Defense  
**Carolyn Cairns**, Independent Consultant

---

12:15 – 13:00 **SUMMARY OF BREAKOUT SESSIONS**

Breakout Session Co-Chairs

---

13:00 – 14:00 *Lunch (on your own)*

---

---

SESSION 8: Parallel Roundtable Sessions & Concluding Remarks

---

14:00 – 16:00 **Roundtable Discussion Groups:**

**Group 1: Needs and Perspectives of Emerging Businesses**

Moderator: **Jay West**, Senior Director, Chemical Products and Technology, American Chemical Council



# MEETING AGENDA (Cont.)

Wednesday September 11, 2013

14:00 – 16:00 **Roundtable Discussion Groups (Cont.):**

**Group 2: A Sector-Based Approach: Perspectives from the Pharmaceutical Industry**

Moderators: **Frank Malinoski**, Chief Medical Officer, Liquidia Technologies, Inc.  
**Lawrence Tamarkin**, President and CEO, Cytimmune Sciences, Inc.

**Group 3: Public Risk Perception and Communication**

Moderator: **Barbara Herr Harthorn**, Principal Investigator and Director of the Center for Nanotechnology in Society, Professor of Anthropology, University of California Santa Barbara

---

16:00 – 16:30 *Coffee Break*

---

16:30 – 17:00 **Summary and Discussion of Roundtable Sessions**

Moderator: **Jeff Steevens**, Senior Scientist, US Army Engineer Research and Development Center, Department of Defense

17:00 – 17:15 **Discussion and Public Comments**

17:15 – 17:30 **Concluding Remarks**

**Igor Linkov**, Risk and Decision Science Focus Area Lead, US Army Engineer Research and Development Center, Department of Defense

**Trey Thomas**, Toxicologist Office of Hazard Identification and Reduction, Consumer Product Safety Commission

**Jeff Steevens**, Senior Scientist, US Army Engineer Research and Development Center, Department of Defense