

**Conference on Accelerating Innovation in 21st Century  
Biosciences: Identifying the Measurement Standards and  
Technological Challenges**

**October 19-22, 2008**



**Gaithersburg, MD**

**Sunday, October 19**

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**Pre-Registration  
Conference Hotel**

**5:00-7:00p.m.**

Marriott Courtyard Gaithersburg Washingtonian Center  
204 Boardwalk Place  
Gaithersburg, MD 20878  
Phone: 301-527-9000

**Co-Sponsors Exhibits**

**5:00-7:00p.m.**

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**Monday, October 20**

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**Meet Conference Bus  
Hotel Front Entrance**

**7:00a.m, 7:30a.m.**

**Registration  
Administration Building, Red Auditorium**

**7:00-8:00a.m.**

**Morning Session  
Administration Building, Red Auditorium**

**8:00a.m.-12:00p.m.**

**Exhibit Setup**

**8:00a.m.-12:00p.m.**

8:00-8:15 Introduction and Welcome: Jennie Hunter-Cevera, UMBI  
Willie May, NIST

8:15-10:00 Science Policy Roundtable:

- Laurence Besley, Department of Innovation, Industry, Science and Research, Australia
- Chavonda Jacobs-Young, Office of Science and Technology Policy, USA
- Timothy Hall, Directorate General for Research, EC
- João Alziro Herz da Jornada, Department of the Development, Industry and Exterior Commerce, Brazil

*Moderator:*

*Mitch Waldrop, Nature*

10:00-10:30 Break

*Agenda*

**Monday, October 20**

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**Morning Session 8:00a.m.-12:00p.m.**  
**Administration Building, Red Auditorium**

10:30-12:00 NMI Directors' Roundtable:

- Kwang Hwa Chung, KRISS, Korea
- Patrick Gallagher, NIST, USA
- Alejandro Herrero Molina, JRC-IRMM, EC
- Anna Hills, NPL, UK
- James McLaren, NRC INMS, Canada
- Marc Pieksma, NMI, The Netherlands

*Moderator: Robert Kaarls, Secretary of CIPM*

**Discussion 12:00-12:30p.m.**  
**Administration Building, Red Auditorium**

**Lunch 12:30-1:30p.m.**  
**Administration Building, Cafeteria**

**Exhibits Open 12:00-5:30p.m.**

**Afternoon Session 1:30-5:30p.m.**  
**Administration Building, Red Auditorium**

Plenary Symposium:

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| <ul style="list-style-type: none"> <li>• Medicine Plenary Lecture</li> <li>• Energy Plenary Lecture</li> <li>• Environment Plenary Lecture</li> </ul> | <p>Lee Hood, Inst. for Systems Biology<br/>           Anna Palmisano, U.S. DoE<br/>           Stephen Weisberg, Southern California Coastal Water Research Project Authority</p> |
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**Break 3:45-4:00p.m.**

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| <ul style="list-style-type: none"> <li>• Manufacturing Plenary Lecture</li> <li>• Agriculture Plenary Lecture</li> </ul> | <p>James Thomas, Amgen<br/>           Pamela Ronald, UC Davis and<br/>           Raoul Adamchak, UC Davis</p> |
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*Moderators: Helen Parkes, LGC  
 Gary Brooker, Johns Hopkins University*

**Reception 5:30p.m.**  
**NIST**

**Return to Hotel (Bus Transportation) 6:30p.m., 7:00p.m.**  
**Meet bus at Administration Building Lobby**

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**Tuesday, October 21**

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**Meet Conference Bus** 8:00a.m., 8:30a.m.  
**Hotel Front Entrance**

**Registration** 8:30-9:00a.m.  
**Administration Building, Red Auditorium**

**Exhibits Open** 9:00a.m.-5:00p.m.

**Morning Session** 9:00a.m.-1:00p.m.  
**Administration Building, Red Auditorium and Lecture Rooms**

9:00-10:00 -- Summary of Plenary Session Jennie Hunter-Cevera  
-- Charge to the Working Groups Willie May  
-- Technical Panel Process Agenda Joan Pellegrino

10:00-11:00 Parallel Technical Panels and Hot Topics Session

**Break** 11:00-11:15a.m.

11:15-1:00 Parallel Technical Panels and Hot Topics Session

**Lunch** 1:00-2:00p.m.  
**Administration Building, Cafeteria**

**Afternoon Session** 2:00-5:30p.m.  
**Administration Building, Red Auditorium and Lecture Rooms**

2:00-3:15 Parallel Technical Panels and Hot Topics Session

**Break** 3:15-3:30p.m.

3:30-5:30 Parallel Technical Panels and Hot Topics Session

**Meet Conference Bus to Hotel** 5:30p.m., 6:00p.m.  
**Meet bus at Administration Building Lobby**

*Agenda*

# Agenda

**Tuesday, October 21**

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**Meet Conference Bus to Dinner**                      **6:15p.m., 6:30p.m.**  
**Hotel Front Entrance**

**Evening Social Hour and Dinner**                      **6:30-8:30p.m.**  
**Smokey Glen Farm Barbequers, Inc.**

16407 Riffleford Road  
Gaithersburg, MD 20878  
[www.smokeyglenfarm.com](http://www.smokeyglenfarm.com)

Casual Dress  
Directions included

**Meet Conference Bus to Hotel**                      **8:30p.m., 9:00p.m.**

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Wednesday, October 22

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**Meet Conference Bus** 8:00a.m., 8:30a.m.  
**Hotel Front Entrance**

**Registration** 8:30-9:00a.m.  
**Administration Building, Red Auditorium**

**Exhibits Open** 9:00a.m.-2:30p.m.

**Morning Session** 9:00a.m.-12:00p.m.  
**Administration Building, Red Auditorium and Lecture Rooms**

9:00-10:45 Parallel Technical Panels Continue

**Break** 10:45-11:00a.m.

11:00-12:00 Parallel Technical Panels Continue

**Lunch** 12:00-1:00p.m.  
**Administration Building, Cafeteria**

**Afternoon Session** 1:00-3:30p.m.  
**Administration Building, Red Auditorium and Lecture Rooms**

1:00-3:00 Technical Panels Report-Out Session

3:00-3:30 Wrap-up

**Adjourn** 3:30p.m.  
Bring luggage to NIST for departure

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*Agenda*

## HOT TOPICS SESSION

### Addressing Unrecognized, Overlooked, Underestimated and Ignored Measurement Needs in:

- Stem Cell Therapies
- Bioremediation
- Emerging Microbiological Threats
- Gene Therapy
- Antibiotic and Antiviral Drug Resistance
- Transgenic Plants and Animals as Biopharmaceutical Sources
- Synthetic Biology
- Marine vs Terrestrial Bioenergy

**Tuesday, October 21**

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**Morning Session** **9:00a.m.-1:00p.m.**  
**Administration Building, Red Auditorium and Lecture Rooms**

**Afternoon Session** **2:00-5:30p.m.**  
**Administration Building, Red Auditorium and Lecture Rooms**

#### **Biomedical Topics**

1. Renee Reijo-Pera – Stanford University School of Medicine
2. Kathy Hudson – John Hopkins University
3. Keith Yamamoto – University of California San Francisco and National Academy of Science
4. Gregory Petsko – Brandeis University
5. Ann Reid – National Academy of Science

#### **Energy, Environment, and Agriculture Topics**

1. Feng Chen – University of Maryland Biotechnology Institute, Center of Marine Biotechnology
2. George Pierce – Georgia State University
3. Robert Wall – U.S. Department of Agriculture
4. Joseph Spence – U.S. Department of Agriculture

**Wednesday, October 21**

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**Morning Session** **9:00a.m.-12:00p.m.**  
**Administration Building, Red Auditorium and Lecture Rooms**