



A NATIONAL SUMMIT ON ADVANCING CLEAN ENERGY TECHNOLOGIES

ENTREPRENEURSHIP AND INNOVATION
THROUGH HIGH PERFORMANCE COMPUTING

The Ronald Reagan Building and International Trade Center

Washington, D.C.

May 16-17, 2011

Co-Chairs

Howard Baker
Tom Daschle
Bob Dole

Organizers

The Howard Baker Forum
The Bipartisan Policy Center
Lawrence Livermore National Laboratory

Partners

American Energy Innovation Council
Council on Competitiveness
Institute for 21st Century Energy
National Venture Capital Association
Oak Ridge National Laboratory
The Science Coalition

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Entrepreneurship and Innovation through High Performance Computing

AGENDA

DAY ONE: CALL TO ACTION

8:45 AM WELCOME: Senator Tom Daschle

Introduction by: Scott Campbell – Director, The Howard Baker Forum

9:00 AM OPENING REMARKS: General Jim Jones

Introduction by: Karen Harbert - President, Institute for 21st Century Energy

9:30 AM KEYNOTE ADDRESS: Dr. John P. Holdren, White House Science and Technology Advisor

Launching Clean Energy Technologies for American Jobs and Competitiveness

Introduction by: Dr. Tomás Díaz de la Rubia, Lawrence Livermore National Laboratory

10:15 AM COFFEE BREAK

10:45 AM PANEL: Partnering for Innovation: Spurring Competitiveness and Job Creation

Moderated by: Steven Mufson, Washington Post

Senator Byron Dorgan – Senior Policy Advisor, Arent Fox

Eric Spiegel – President and CEO, Siemens Corporation

Dr. Shirley Ann Jackson – President, Rensselaer Polytechnic Institute

12:30 PM LUNCHEON ADDRESS: John Hofmeister – Founder and Chief Executive, Citizens for Affordable Energy

Introductions by: John Tuck – Senior Public Policy Advisor, Baker Donelson

Welcome by: Senator Howard Baker - Chairman, The Howard Baker Forum

2:00 PM PANEL: The Role of Private Financing in Commercializing Advanced Energy Technologies

Moderated by: Stephen Power, Wall Street Journal

Partho Sanyal – Director of Global Power, Utility and Renewable Energy Group, Bank of America Merrill Lynch

Skip Grow – Managing Director of Power and Utility Group, Morgan Stanley

Robert Nelsen – Co-Founder and Managing Director, ARCH Venture Partners

Scott DePasquale – Partner, Braemar Energy Ventures

Tom Baruch – Founder and Partner Emeritus, CMEA Capital

3:30 PM COFFEE BREAK

4:00 PM Dr. Steven E. Koonin – Undersecretary for Science, U.S. Department of Energy

Introduction by: Dr. Tomás Díaz de la Rubia, Lawrence Livermore National Laboratory

4:30 PM PANEL: Transforming Product Development and Commercialization

Moderated by: Dr. Tomás Díaz de la Rubia, Lawrence Livermore National Laboratory

Eric Isaacs – Director, Argonne National Laboratory

Peter Ungaro – President and CEO, Cray, Inc.

Rajeeb Hazra – General Manager of High Performance Computing, Intel Corporation

5:30 PM RECEPTION

Sponsored by: Baker, Donelson, Bearman, Caldwell & Berkowitz, PC

AGENDA

DAY TWO: TECHNOLOGY SESSION

8:30 AM OPENING REMARKS: Senator John Hoeven

Introduction by: Karen Harbert – President, Institute for 21st Century Energy

9:00 AM Dr. Tomás Díaz de la Rubia - Deputy Director for Science and Technology, Lawrence Livermore National Laboratory

Leveraging our National Assets: A HPC Roadmap for Startups and Small Businesses

9:30 AM Dr. David Turek – Vice President of Deep Computing, IBM

Smarter Planet

Introduction by: Dr. Tomás Díaz de la Rubia, Lawrence Livermore National Laboratory

10:00 AM COFFEE BREAK

10:30 AM PANEL 1-Simulation for Energy Efficient Buildings

Moderated by: Michael McQuade, United Technologies Corporation

Rapporteur: Noah Goldstein, Lawrence Livermore National Laboratory

- **Charlie Catlett**, Argonne National Laboratory
- **Jim Sexton**, IBM T. J. Watson Research Center
- **James Braun**, Purdue University
- **John Burns**, Virginia Polytechnic Institute and State University

11:30 AM PANEL 2-Carbon Capture and Sequestration

Moderated by: **Carl Bauer, National Energy Technology Laboratory**

Rapporteur: **Clara Smith, Lawrence Livermore National Laboratory**

- **Madhava Syamlal**, National Energy Technology Laboratory
- **David Sholl**, Georgia Institute of Technology
- **Julio Friedmann**, Lawrence Livermore National Laboratory
- **John Tombari**, Schlumberger, Carbon Services

12:30 PM LUNCHEON ADDRESS: Dr. Thom Mason –Director, Oak Ridge National Laboratory

Introduction by: **Jason Grumet – President, Bipartisan Policy Center**

1:30 PM Dr. Cynthia McIntyre – Senior Vice President of Strategic Operations and HPC Initiative, Council on Competitiveness

Transforming Manufacturing through High Performance Computing

Introduction by: **Dr. Tomás Díaz de la Rubia, Lawrence Livermore National Laboratory**

2:00 PM PANEL 3- Nuclear Energy

Moderated by: **Alex Larzelere, U.S. Department of Energy**

Rapporteur: **Tom Arsenlis, Lawrence Livermore National Laboratory**

- **Terry Wallace**, Los Alamos National Laboratory
- **Doug Kothe**, Oak Ridge National Laboratory
- **Eric Loewen**, GE-Hitachi Nuclear Energy
- **Don Langley**, The Babcock & Wilcox Company
- **Kord Smith**, Studsvik-Scandpower, Inc.

3:00 PM COFFEE BREAK

3:30 PM PANEL 4- Liquid Fuel Combustion

Moderated by: **Bob Carling, Sandia National Laboratories**

Rapporteur: **Nalu Kaahaaina, Lawrence Livermore National Laboratory**

- **Andy McIlroy**, Sandia National Laboratories
- **Wayne Eckerle**, Cummins, Inc.
- **Gary Smyth**, General Motors
- **Charlie Westbrook**, Retired from LLNL

4:30 PM PANEL 5- The Smart Grid and Storage

Moderated by: **Kevin Dasso, Pacific Gas and Electric Co.**

Rapporteur: **Tom Edmunds, Lawrence Livermore National Laboratory**

- **Craig Adams**, Exelon Corporation
- **Daniel Kammen**, University of California-Berkley
- **Steve Pullins**, Horizon Energy Group
- **Carl Imhoff**, Pacific Northwest National Laboratory

5:30 PM CONCLUDING REMARKS: Dr. Tomás Díaz de la Rubia

Next Steps: The Clean Energy HPC Roadmap