

The 6th Annual Notre Dame Environmental Education and Research Conference

NDEER 2007

Energy and the Environment

Wednesday, October 10, 2007



NDEER 2007 Speakers



Rodney Ewing

Rod Ewing is the Donald R. Peacor Collegiate Professor in the Department of Geological Sciences at the University of Michigan. He has faculty appointments in the Departments of Nuclear Engineering & Radiological Sciences and Materials Science & Engineering and is an Emeritus Regents' Professor at the University of New Mexico where he was a member of the faculty from 1974 to 1997. His research involves issues related to nuclear waste management. Ewing has been an invited expert to the Advisory Committee on Nuclear Waste of the Nuclear Regulatory Commission and a consultant to the Nuclear Waste Technology Review Board. He received his Ph.D. from Stanford University in 1974.



John Ledyard

The Allen and Lenabelle Davis Professor of Economics and Social Sciences at the California Institute of Technology, Professor Ledyard did pioneering work on the theoretical foundations and the applications of mechanism design, and contributed greatly to our understanding of the roles of incentives and information in markets and organizations. His more applied work has included the development of computer-assisted markets for trading pollution rights, managing resources for spacecraft and instrument design, acquiring logistics contracts, swapping portfolios of thinly traded securities, and decision markets. He received his Ph.D. from Purdue University in 1967.



Michael J. Mudd

Michael J. Mudd is the chief executive officer of FutureGen Alliance. Prior to his current position, he served as the manager of Generation Technologies and Technology Development for American Electric Power (AEP) with responsibility for corporate research and development associated with energy supply technologies, including coal, gas, nuclear, and renewable energy. He played a key role in the analysis that led to AEP's IGCC projects that are under development. FutureGen is a public-private partnership working to build a first-of-its-kind coal-fueled, near-zero emissions power plant.

Organizing Committee

Joan F. Brennecke

Keating-Crawford Professor of Chemical and Biomolecular Engineering and Director of the Notre Dame Energy Center

Thomas Gresik

Professor, Economics and Econometrics, and Fellow, Helen Kellogg Institute for International Studies

Jeffrey Feder

Professor, Biological Sciences, and Director of the Global Linkages of Biology, the Environment, and Society Program

Jeremy B. Fein

Professor, Civil Engineering and Geological Sciences, and Director of the Center for Environmental Science and Technology

Richard Jensen

Professor and Department Chair, Economics and Econometrics, and Concurrent Professor and Finance Fellow, Helen Kellogg Institute for International Studies

Prashant Kamat

Professor, Chemistry and Biochemistry, and Concurrent Professor, Chemical and Biomolecular Engineering

David Lodge

Professor, Biological Sciences

Paul McGinn

Professor, Chemical and Biomolecular Engineering

Mark Schurr

Associate Professor and Department Chair, Anthropology

Conference Participants

Daniel Alessi

Graduate Presidential Fellow, Civil Engineering and Geological Sciences

Joan F. Brennecke

Keating-Crawford Professor of Chemical and Biomolecular Engineering and Director of the Notre Dame Energy Center

Peter C. Burns

Massman Professor and Department Chair, Civil Engineering and Geological Sciences, and Concurrent Professor, Chemistry and Biochemistry

Thomas C. Corke

Clark Equipment Professor, Aerospace and Mechanical Engineering, Director of the Center for Flow Physics and Control, and Director of the Hessert Laboratory for Aerospace Research

JaNeille Dixon

Postdoctoral Research Associate, Chemical and Biomolecular Engineering

Michael Edwards

Assistant Vice President, Office of Research

Jeremy B. Fein

Professor, Civil Engineering and Geological Sciences, and Director of the Center for Environmental Science and Technology

Tori Forbes

Research Associate, Chemistry and Biochemistry

Keith Gutowski

Postdoctoral Research Associate, Chemical and Biomolecular Engineering

Jessica Hellmann

Assistant Professor, Biological Sciences

Frank P. Incropera

Professor, Aerospace and Mechanical Engineering, and Dean Emeritus, College of Engineering

Travis Marsico

Graduate Student, Biological Sciences

Gilberto Mejia-Rodriguez

Graduate Student, Aerospace and Mechanical Engineering

Held annually since 2001, the NDEER symposium highlights the depth and diversity of environmental research occurring throughout the University of Notre Dame. This year's conference specifically addresses energy and environmental issues, policy, and management.

McKenna Hall Atrium

8:15 a.m. – 8:30 a.m.

CONTINENTAL BREAKFAST

McKenna Hall Auditorium

8:30 a.m. – 8:45 a.m.

WELCOME AND INTRODUCTIONS

Michael Edwards
Assistant Vice President
Office of Research

Joan F. Brennecke

Keating-Crawford Professor of Chemical
and Biomolecular Engineering and
Director of the Notre Dame Energy Center

8:45 a.m. – 9:45 a.m.

ENERGY AND CARBON MARKETS

John Ledyard
Allen and Lenabelle Davis Professor of
Economics and Social Sciences,
California Institute of Technology

9:45 a.m. – 10:00 a.m.

BREAK

10:00 a.m. – 11:00 a.m.

NUCLEAR ENERGY ISSUES

Rodney Ewing
Donald R. Peacor Collegiate Professor
of Geological Sciences,
University of Michigan

11:00 a.m. – 12:00 p.m.

FUTUREGEN ALLIANCE

Frank Incropera
Dean Emeritus and Professor of Aerospace
and Mechanical Engineering

Lower Level Dining Room

12:10 – 12:50 p.m.

LUNCHEON

McKenna Hall

1:00 p.m. – 2:00 p.m.

BREAKOUT SESSIONS

CO₂ Capture and Impacts (Rooms 100-104)
Nuclear Energy Issues (Rooms 112-114)
Clean Coal Utilization (Room 106)

2:00 p.m. – 3:00 p.m.

BREAKOUT SESSIONS

CO₂ Capture and Impacts (Rooms 100-104)
Nuclear Energy Issues (Rooms 112-114)
Clean Coal Utilization (Room 106)

McKenna Hall Auditorium

3:00 p.m. – 4:00 p.m.

CLOSING DISCUSSION

Panelists: Rodney Ewing, John Ledyard, and Michael J. Mudd
Moderator: Joan F. Brennecke

4:00 p.m. – 4:15 p.m.

CLOSING REMARKS

Joan F. Brennecke



NDEER 2007

Energy and the Environment

Wednesday, October 10, 2007

Sponsors

Notre Dame Energy Center, University of Notre Dame

Office of Research, University of Notre Dame

Seng Foundation Endowment for Market-based Programs and Catholic Values,
Institute for Scholarship in the Liberal Arts



**UNIVERSITY OF
NOTRE DAME**