

Michigan Energy Symposium

September 26-28, 2016

# Combating Climate Change

## *The Role of Nuclear Power*

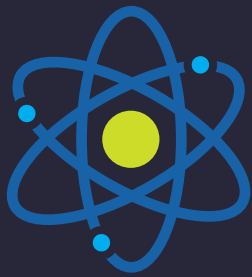
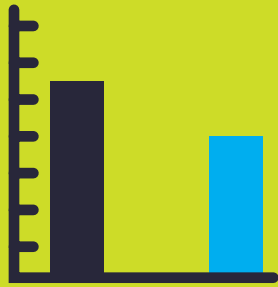
### Agenda

#### Monday, September 26<sup>th</sup>

- 1:30 PM — 1:45 PM**     **WELCOME**  
Mark Barteau, Director, University of Michigan Energy Institute, DTE Energy Professor of Advanced Energy Research
- 1:45 PM — 2:00 PM**     **CONTEXT AND PERSPECTIVE**  
Jim Duderstadt, President Emeritus, University of Michigan
- 2:00 PM — 2:40 PM**     **KEYNOTE**  
Ted Nordhaus, Co-Founder and Research Director, Breakthrough Institute
- 2:40 PM — 2:55 PM**     **BREAK**
- 2:55 PM — 3:35 PM**     **COMBATING CLIMATE CHANGE WITHOUT NUCLEAR ENERGY**  
Mark Jacobson, Director, Atmosphere/Energy Program, Professor of Civil and Environmental Engineering, Stanford University
- 3:35 PM — 4:15 PM**     **COMBATING CLIMATE CHANGE WITH NUCLEAR ENERGY**  
Bill Magwood, Director-General, Nuclear Energy Agency (NEA) of the Organisation for Economic Co-operation and Development
- 4:15 PM — 4:30 PM**     **NUCLEAR'S PLACE IN A ONE-CENT CLEAN ENERGY MARKET**  
Carl Page, Founder, Anthropocene Institute
- 4:30 PM — 5:30 PM**     **PANEL DISCUSSION**  
*Moderator:* Andrew Hoffman, Holcim (US) Professor of Sustainable Enterprise, University of Michigan  
*Panelists:*
  - **Jim Duderstadt**, University of Michigan
  - **Mark Jacobson**, Stanford University
  - **Bill Magwood**, Nuclear Energy Agency (NEA) of the Organisation for Economic Co-operation and Development
  - **Ted Nordhaus**, Breakthrough Institute
  - **Carl Page**, Anthropocene Institute
- 5:30 PM — 6:30 PM**     **CONFERENCE GUEST RECEPTION**

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## Tuesday, September 27<sup>th</sup>

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**8:00 AM — 8:45 AM**    **BREAKFAST**

**8:45 AM — 8:55 AM**    **WELCOME**

Ron Gilgenbach, Chihiro Kikuchi Collegiate Professor of Nuclear Engineering and Radiological Sciences, University of Michigan

**8:55 AM — 9:05 AM**    **TECHNOLOGY SESSION**

*Moderator Remarks:* Thomas Downar, Professor of Nuclear Engineering and Radiological Sciences, University of Michigan

**9:05 AM — 9:25 AM**    **THE STATUS OF NUCLEAR POWER IN THE UNITED STATES**

Jim Rogers, CEO, Duke Energy (Retired), Rubenstein Fellow, Duke University

**9:25 AM — 9:50 AM**    **PATHWAYS TO A STRONG FUTURE FOR NUCLEAR POWER**

Peter Lyons, Assistant Secretary for Nuclear Energy, U.S. Department of Energy (Retired), Commissioner, U.S. Nuclear Regulatory Commission (Retired)

**9:50 AM — 10:15 AM**    **DEVELOPING AN INNOVATION CULTURE IN NUCLEAR ENERGY**

Todd Allen, Senior Fellow, Third Way

**10:15 AM — 10:35 AM**    **BREAK**

**10:35 AM — 11:00 AM**    **ENABLING THE FUTURE OF NUCLEAR POWER THROUGH INNOVATION**

Jess Gehin, Director, Consortium for the Advanced Simulation of Light Water Reactors, Oak Ridge National Laboratory

**11:00 AM — 11:25 AM**    **NUSCALE POWER TECHNOLOGY: EXPANDING THE REACH OF NUCLEAR ENERGY**

Daniel Ingersoll, Director of Research Collaborations, NuScale

**11:25 AM — 12:15 PM**    **PANEL DISCUSSION: FUTURE TECHNOLOGIES**

**Panelists:**

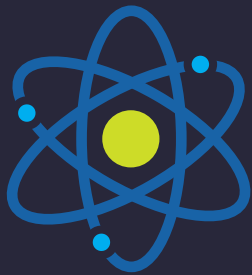
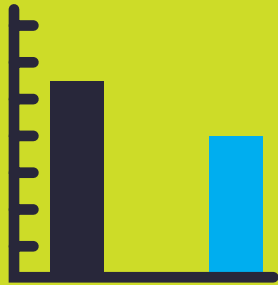
- **Todd Allen**, Third Way
- **Jess Gehin**, Consortium for the Advanced Simulation of Light Water Reactors, Oak Ridge National Laboratory
- **Daniel Ingersoll**, NuScale
- **Peter Lyons**, U.S. Department of Energy (Retired), Commissioner, U.S. Nuclear Regulatory Commission (Retired)
- **Jim Rogers**, Duke Energy (Retired), Rubenstein Fellow, Duke University

**12:15 PM — 12:30 PM**    **TECHNOLOGY SESSION CLOSING REMARKS**

Thomas Downar, University of Michigan

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**12:30 PM — 1:45 PM LUNCH**

**1:45 PM — 1:50 PM RISK AND BENEFIT SESSION**

*Moderator Remarks:* Joe Arvai, Director, Erb Institute, Professor, School of Natural Resources and the Environment, University of Michigan

**1:50 PM — 2:30 PM ACCEPTANCE OF NUCLEAR POWER: THE CENTRAL ROLES OF AFFECT, TRUST AND PERCEIVED BENEFITS**

Vivianne Visschers, Lecturer, Consumer Behavior, ETH Zurich

**2:30 PM — 3:10 PM U.S. PUBLIC OPINION ABOUT NUCLEAR ENERGY: CURRENT ATTITUDES AND KEY PREDICTORS**

John Besley, Associate Professor, College of Communications, Michigan State University

**3:10 PM — 3:50 PM WHEN ASKED TO MAKE AN INFORMED CHOICE, DO PEOPLE PREFER NUCLEAR POWER? INSIGHTS FROM APPLIED FIELDWORK**

Joe Arvai, University of Michigan

**3:50 PM — 4:10 PM BREAK**

**4:10 PM — 5:15 PM PANEL DISCUSSION: RISK AND BENEFIT**

*Panelists:*

- **Tom Catania**, The University of Michigan
- **Daniel J. Malone**, Consumers Energy
- **Dr. Robyn Wilson**, The Ohio State University

**5:15 PM — 5:30 PM RISK AND BENEFIT SESSION CLOSING REMARKS**

Joe Arvai, University of Michigan

**6:00 PM — 8:00 PM DINNER, UNIVERSITY OF MICHIGAN MUSEUM OF ART**

## Wednesday, September 28<sup>th</sup>

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**8:00 AM — 8:45 AM BREAKFAST**

**8:45 AM — 9:00 AM ECONOMICS SESSION**

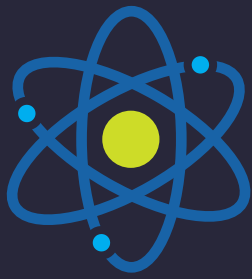
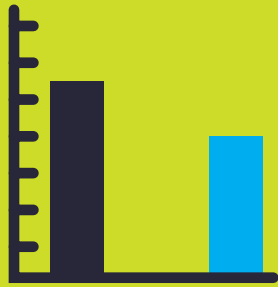
*Moderator Remarks:* Catherine Hausman, Assistant Professor, Ford School of Public Policy, University of Michigan

**9:00 AM — 9:30 AM MARKET SIGNALS**

Geoffrey Rothwell, Principal Economist, OECD Nuclear Energy Agency

**9:30 AM — 10:00 AM GETTING TO 'YES' WITH NEW NUCLEAR INVESTMENT**

Fred Buckman, President & CEO, Powerlink Transmission



## Day 3

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- 10:00 AM — 10:30 AM**    **NEW NUCLEAR TECHNOLOGY COSTS**  
John Gilleland, Chief Technical Officer, TerraPower
- 10:30 AM — 10:50 AM**    **BREAK**
- 10:50 AM — 11:50 AM**    **PANEL DISCUSSION: ECONOMICS GAME CHANGERS**  
*Panelists:*
- **Fred Buckman**, Powerlink Transmission
  - **Paul Fessler**, Senior Vice President and Chief Nuclear Officer, DTE Energy
  - **John Gilleland**, Chief Technical Officer, TerraPower
  - **Geoffrey Rothwell**, OECD Nuclear Energy Agency
- 11:50 AM — 12:50 PM**    **LUNCH**
- 12:50 PM — 1:00 PM**    **POLICY SESSION**  
*Moderator Remarks:* Thomas Lyon, Associate Director for Social Science and Policy, University of Michigan Energy Institute, Professor, Ross School of Business and School of Natural Resources and the Environment
- 1:00 PM — 1:30 PM**    **CONSTRUCTION AND LICENSING OF ADVANCED REACTORS: LESSONS FROM THE US AND CANADA**  
Simon Irish, Chief Executive, Terrestrial Energy
- 1:30 PM — 2:00 PM**    **SAFE & EFFICIENT OPERATIONS AND MARKET DESIGN**  
John Parsons, Senior Lecturer, MIT Sloan School of Management
- 2:00 PM — 2:15 PM**    **BREAK**
- 2:15 PM — 2:45 PM**    **NUCLEAR WASTE MANAGEMENT: SITING, STORAGE, AND DISPOSAL**  
Sam Brinton, Senior Policy Analyst, Bipartisan Policy Center
- 2:45 PM — 3:45 PM**    **PANEL DISCUSSION: POLICY GAME CHANGERS**

## Hosted By:

