

# Global Change Forum 47

Sustainability Science: Navigating the Challenges of Global Change



Center for  
Sustainability Science  
and Strategy

MIT Samberg Conference Center • 50 Memorial Drive, Cambridge, MA

## Thursday 27 March 2025

8:30 CHECK-IN (PRE-REGISTRATION REQUIRED) AND LIGHT BREAKFAST

9:00 **Opening Remarks: Center for Sustainability Science & Strategy (CS3) Leadership**

9:15 **Session 1: Sustainability Science: Integrated Modeling of Nature-Society Systems**

*Moderator: Anne Slinn • MIT CS3 • Executive Director*

*Noelle Selin • MIT CS3 • Director; Professor, MIT Institute for Data, Systems, and Society and MIT Earth, Atmospheric & Planetary Sciences*

*Brent Boehlert • Industrial Economics, Incorporated • Principal*

*Rebecca Saari • University of Waterloo • Associate Professor, Civil and Environmental Engineering*

10:45 COFFEE BREAK

11:15 **Session 2: Sustainability Science: Institutions, Markets, and Incentives**

*Moderator: Adam Schlosser • MIT CS3 • Deputy Director; Senior Research Scientist*

*Jennifer Morris • MIT CS3 • Principal Research Scientist*

*Gregory Characklis • University of North Carolina • Director, Institute for Risk Management and Insurance Innovation*

*Michael Davidson • UC San Diego • Assistant Professor, School of Global Policy and Strategy*

12:45 LUNCH

14:00 **Session 3: Feedbacks, Nonlinearities, and “Tipping Points”**

*Moderator: Angelo Gurgel • MIT CS3 • Principal Research Scientist*

*Adam Schlosser • MIT CS3 • Deputy Director and Senior Research Scientist*

*Robert Kopp • Rutgers University • Professor, Earth and Planetary Sciences*

*Chris Bauch • University of Waterloo • Professor, Applied Math*

15:30 COFFEE BREAK

## Thursday 27 March 2025

### 16:00 Climate Missions of the Climate Project at MIT

**Moderator:** Sergey Paltsev • MIT CS3 • *Deputy Director; Senior Research Scientist*

**Empowering frontline communities:** Miho Mazzereeuw • MIT • *Professor, Department of Urban Studies and Planning*

**Decarbonizing energy and industry:** Elsa Olivetti • MIT • *Professor, Materials Science and Engineering*

**Restoring the atmosphere, protecting the land and oceans:** Andrew Babbin • MIT • *Associate Professor, Earth, Atmospheric and Planetary Sciences* and Jesse Kroll • MIT • *Professor, Civil and Environmental Engineering*

**Inventing new policy approaches:** Christopher Knittel • MIT • *Professor; Associate Dean for Climate and Sustainability, Sloan School of Management*

**Wild Cards:** Benedetto Marelli • MIT • *Assoc. Prof., Civil and Environmental Engineering*

**Building and adapting healthy, resilient cities:** Christoph Reinhart • MIT • *Professor, Architecture*

17:00 RECEPTION & POSTER SESSION

### 18:30 Dinner and Keynote: Susan Solomon • Professor, MIT Earth, Atmospheric & Planetary Sciences; Chair, EAPS Program in Oceans, Atmospheres and Climate; Lee and Geraldine Martin Professor of Environmental Studies

## Friday 28 March 2025

8:30 CHECK-IN AND LIGHT BREAKFAST

### 9:00 Session 4: Integrating Equity in Addressing Global Change

**Moderator:** Jennifer Morris • MIT CS3 • *Principal Research Scientist*

Sergey Paltsev • MIT CS3 • *Deputy Director and Senior Research Scientist*

Jan Kwakkel • Delft University of Technology • *Professor, Decision Making under Deep Uncertainty*

Amanda Giang • University of British Columbia • *Assistant Professor, Mechanical Engineering; Institute for Resources, Environment and Sustainability*

10:30 COFFEE BREAK

### 11:00 Session 5: Sustainability Strategy at Global Scale

**Moderator:** Noelle Selin • MIT CS3 • *Director*

Amy Luers • Microsoft • *Global Director, Sustainability Science*

Carlos Lopes • U. of Cape Town • *Professor, Nelson Mandela School of Public Governance*

Poushali Maji • Schmidt Sciences • *Program Scientist*

### 12:30 Closing Remarks: Noelle Selin • Director, MIT CS3

12:45 LUNCH