

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

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

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

9:15A **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

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

Brent Boehlert • Industrial Economics, Incorporated • Principal

10:45A COFFEE BREAK

11:15A **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 at Chapel Hill • William R. Kenan Jr. Distinguished Professor, Department of Environmental Sciences and Engineering; Director, Institute for Risk Management and Insurance Innovation

Michael Davidson • UC San Diego • Assistant Professor, Mechanical and Aerospace Engineering and School of Global Policy and Strategy; Director, Power Transformation Lab

12:45P LUNCH

2:00P **Session 3: Feedbacks, Nonlinearities, and “Tipping Points”**

Moderator: Angelo Gurgel • MIT CS3 • Principal Research Scientist

Adam Schlosser • MIT CS3 • Deputy Director; Senior Research Scientist

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

Chris Bauch • University of Waterloo • Professor, Department of Applied Mathematics

3:30P COFFEE BREAK

Thursday 27 March 2025

4:00P Climate Missions of the Climate Project at MIT

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

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

Restoring the atmosphere, protecting the land and oceans: 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: Sarah McGrath • MIT • *Managing Director, The Climate Project at MIT*

Designing resilient and prosperous cities: Christoph Reinhart • MIT • *Professor, Architecture*

5:00P RECEPTION & POSTER SESSION

6:30P 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

8:30A CHECK-IN AND LIGHT BREAKFAST

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

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

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

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

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

10:30A COFFEE BREAK

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

Moderator: Noelle Selin • MIT CS3 • *Director*

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

Edward Wack • MIT Lincoln Laboratory • *Division Head, Biotechnology and Human Systems*

Poushali Maji • Schmidt Sciences • *Program Scientist*

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

12:45P LUNCH