

Retreat Agenda

June 11, 2024

Princeton Marriott at Forrestal

Building a clean future: Decarbonizing cement, steel, and other heavy industries

At the **eleventh annual Princeton E-ffiliates Partnership Retreat**, experts will explore the hard-to-abate sectors — including cement, steel, and iron — that form the bedrock of modern infrastructure yet are responsible for over 15% of the world's carbon emissions. Panels will spotlight new technologies and processes for cutting emissions from these well-established industries, as well as the necessary partnerships for developing and deploying these low-carbon solutions at the speed and scale needed to meet global climate targets.

8:45 a.m.	Registration and Breakfast
9:15 a.m.	Welcome and Overview Princeton Ballroom, Marriott
	Barry Rand , Associate Director for External Partnerships, Andlinger Center for Energy and the Environment, Professor of Electrical and Computer Engineering and the Andlinger Center for Energy and the Environment, Princeton University
	lain McCulloch, Director, Andlinger Center for Energy and the Environment, Gerhard R. Andlinger Professor in Energy and the Environment, and Professor of Electrical and Computer Engineering, Princeton University
9:25 a.m.	Introduction and Background for the Topics of the Day Princeton Ballroom
	Claire White , Associate Professor of Civil and Environmental Engineering and the Andlinger Center for Energy and the Environment, Princeton University
9:30 a.m.	Keynote Address Princeton Ballroom
	Decarbonizing U.S. Industry
	Paul Majsztrik , Program Manager, Industrial Efficiency and Decarbonization Office (IEDO), U.S. Department of Energy
10:30 a.m	Break (15 minutes)
10:45 a.m.	A New Foundation: Decarbonizing Cement and Concrete Princeton Ballroom
	Researchers and industry professionals will highlight the challenges and opportunities for decarbonizing cement and concrete production, outlining the technological solutions that could play a significant role in cutting the industry's carbon emissions.
	Claire White , Moderator, Associate Professor of Civil and Environmental Engineering and the Andlinger Center for Energy and the Environment, Princeton University
	Emmanuel Gallucci, Head Global Research Construction Materials, Sika Technology AG
	Maria Juenger , L.B. (Preach) Meaders Professor of Engineering in the Maseeh Department of Civil, Architectural and Environmental Engineering, The University of Texas, Austin
	Isabelle Rojas, Senior Principal Scientist, Program Supervisor, Energetics
	Davide Zampini, Vice President of Global Research and Development, CEMEX

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PRINCETON UNIVERSITY

12:00 p.m.	Lunch Gratella Room, Lower Level
1:00 p.m.	Pathways to Low-carbon Iron and Steel Princeton Ballroom
	Experts will discuss strategies for reducing the carbon intensity of iron and steelmaking, spotlighting greener alternatives to conventional production approaches.
	Robert Kumpf, Moderator, Managing Director, Deloitte Consulting LLP
	Shivakumar Kuppuswamy, Development and Innovation Director, ResponsibleSteel
	Daniel Stewart, Senior Steel Industry Engineer, Energetics
	Lachlan Wright, Manager, Climate Intelligence, RMI
2:15 p.m.	Break (15 minutes)
2:30 p.m.	Forging Ahead: Translating New Construction Technologies into Practice Princeton Ballroom
	Panelists will overview the concerns — including costs, compliance with construction standards, and liability — associated with the use of green technologies in the construction industry and beyond, identifying a roadmap to the widespread deployment of low-carbon technologies across sectors.
	Anne McPhee, Moderator, Vice President, Business Development, Chemicals and Fuels, Worley Consulting
	Jack Andreasen, Manager, Carbon Management, U.S. Policy and Advocacy, Breakthrough Energy
	Phil Hodgson, Chief Executive Officer and Managing Director, Calix Limited
	Harry Warren, President, CleanGrid Advisors LLC; Non-resident Fellow, Andlinger Center for Energy and the Environment, Princeton University
3:45 p.m.	Wrap-up Discussion and Next Steps Princeton Ballroom
	Claire White , Associate Professor of Civil and Environmental Engineering and the Andlinger Center for Energy and the Environment, Princeton University
	Barry Rand , Associate Director for External Partnerships, Andlinger Center for Energy and the Environment, Professor of Electrical and Computer Engineering and the Andlinger Center for Energy and the Environment, Princeton University
4:00 p.m.	Poster Session and Reception University and Treehouse Lounges

