

# **Future of Integrated Assessment Models: Pathways Towards Carbon Neutrality for Climate, Environment, Health and Socio-economic Co-benefits**

**852. WE-Heraeus-Seminar**

**20 - 24 April 2026**

**at the Physikzentrum Bad Honnef, Germany**

**WILHELM UND ELSE  
HERAEUS-STIFTUNG**



# Program

**Monday, 20 April 2026**

16:00 - 21:00    Registration

17:30 - 19:00    Ice breaking drink

19:00 - 20:15    *BUFFET SUPPER and informal get-together*

# Program

Tuesday, 21 April 2026

07:30 – 08:30	<i>BREAKFAST</i>	
08:30 - 09:00	Scientific Organizers	<b>Opening talk</b>
09:00 - 09:15	Scientific Organizers	<b>Video “About the Wilhelm and Else Heraeus Foundation”</b>
09:15 - 10:00	<b>SESSION A1</b> Paul E. Brockway	<b>The missing link: how and why IAMs should better include energy’s role in economic growth</b>
10:00 - 10:45	<b>SESSION A1</b> Chao Li	<b>Plausible climate futures depend on better integration of social and natural systems</b>
10:45 - 11:15	<i>CONFERENCE PHOTO (in front of the main entrance) &amp; COFFEE BREAK</i>	
11:15 - 12:00	<b>SESSION A2</b> Sarah Cornell	<b>“We’re all part of the system”: Dealing with diversities in the global (-ising) models that shape planetary power systems.</b>
12:00 - 12:45	<b>SESSION A2</b> Hans Kremers	<b>Confronting the climate change related sciences with the ‘Dismal Science’: A personal ‘integrated assessment’</b>
12:45 - 14:00	<i>LUNCH</i>	
14:00 - 14:45	<b>SESSION A3</b> Konstanty Ramotowski-Kula	<b>Integration of social sciences and humanities in Swiss energy modelling: situating the context of research practices</b>
14:45 - 15:30	<b>SESSION A3</b> Aleksandra Wagner	<b>A Human in the Loop. Social Sciences as Catalysts for Reflexive Modeling</b>
15:30 - 16:15	Chris Foulds	<b>Making and disputing models: A Critical Social Scientist’s provocation on how people and societies are accounted for in energy model outcomes and processes</b>

# Program

Tuesday, 21 April 2026

16:15 - 16:45    *COFFEE BREAK*

16:45 -18:30    **Poster madness session**

19:00            *Dinner*

# Program

Wednesday, 22 April 2026

07:30 - 08:30	<i>BREAKFAST</i>	
08:30 - 09:15	<b>SESSION B1</b> Matteo Pedercini	<b>System Dynamics modeling for integrated assessment: challenges and opportunities</b>
09:15 - 10:00	<b>SESSION B1</b> Franco Ruzzenenti	<b>Complexity is the substance of evolution; how can our models neglect it?</b>
10:00 - 10:45	<b>SESSION B1</b> Antonios Katris	<b>Exploring the economy-wide implications of nascent sector activity using national CGE models: The example of CO2 transport and storage</b>
10:45 - 11:15	<i>COFFEE BREAK</i>	
11:15 - 12:00	<b>SESSION B2</b> Jaime Nieto	<b>Exploring the techno-economic and biophysical limits of the energy transition: an Integrated Assessment Model analysis</b>
12:00 - 12:45	<b>SESSION B2</b> Wided Medjroubi	<b>Optimization and Techno Economic Analysis of Energy Systems</b>
12:45 - 14:00	<i>LUNCH</i>	
14:00 - 18:00	<i>EXCURSION</i>	
19:00	<i>DINNER</i>	

# Program

Thursday, 23 April 2026

07:30 – 08:30	<i>BREAKFAST</i>	
08:30 - 09:15	<b>SESSION C1</b> Jianmin Ma	<b>The 21st Century Climate Response to China's Clean Air Action and Carbon Neutrality Targets</b>
09:15 - 10:00	<b>SESSION C1</b> Wenjun Meng	<b>Energy Price Volatility and the Costs and Benefits of the EU Energy Transition: Integrated Assessment Modeling for Carbon Neutrality Pathways</b>
10:00 - 10:45	<b>SESSION C1</b> Jing Meng	<b>Plant-Level Technology Pathways for Cost-Effective Industrial Decarbonization</b>
10:45 - 11:15	<i>COFFEE BREAK</i>	
11:15 - 12:00	<b>SESSION C2</b> Cristina Sarasa	<b>Greening Global Value Chains in Transition: Energy Technologies, Industrial Transformation, and modified Lifestyles</b>
12:00 - 12:45	<b>SESSION C2</b> Yolanda Bravo	<b>Policy assessment for electromobility transition: research insights from a dynamic EV-aware CGE approach</b>
12:45 - 14:00	<i>LUNCH</i>	
14:00 - 14:45	<b>SESSION C3</b> Prajal Pradhan	<b>A threefold approach for the acceleration of Sustainable Development Goals and beyond</b>
14:45 - 15:30	<b>SESSION C3</b> Jos Lelieveld	<b>Air quality, climate change, and health</b>
15:30 - 16:15	<b>SESSION C3</b> Miguel Menendez	<b>Economic and environmental impacts of e-fuels in Spain: Replacement of fossil fuels by DME</b>

# Program

Thursday, 23 April 2026

16:15 - 16:45    *COFFEE BREAK*

16:45 -18:30    **Roundtable sessions** (Three parallel sessions)

19:00            *HERAEUS DINNER*

# Program

Friday, 24 April 2026

07:30 - 08:30	<i>BREAKFAST</i>	
08:30 - 09:15	<b>SESSION C4</b> Detlef van Vuuren	<b>Broadening Climate Mitigation Pathways in an Era of Overshoot and Global Constraints.</b>
09:15 - 10:00	<b>SESSION C4</b> Paraskevi Karka	<b>Identifying optimal circular economy pathways: Linking prospective sustainability assessment with Integrated Assessment Model scenarios</b>
10:00 - 10:45	<b>SESSION C4</b> Keywan Riahi	<b>New ScenarioMIP Pathways and Insights from the Scenario Compass Initiative: What the Latest Global Emissions Scenarios Tell Us</b>
10:45 - 11:00	<i>COFFEE BREAK</i>	
11:00 - 12:00	<b>Joint panel discussion</b>	
12:00 - 12:45	Scientific Organizers	<b>Closing remarks and poster awards</b>
12:45 - 14:00	<i>LUNCH</i>	

**End of the seminar and departure**