

(1) Program

■ Technical Session: Tuesday October 4th

9:30	Opening Addresses :Dr. Haruhiko Obara (AIST) /Dr. William Tumas (NREL, US)
	<i>Plenary Session</i>
9:45	Dr. Akira Yabe (NEDO) “Research and Development Tasks Towards Carbon Neutrality of 2050 — NEDO’s Challenges—
10:15	Prof. Dr. Christopher Hebling (Fraunhofer ISE, Germany) “Green molecules for a sustainable global energy system”
10:45	Dr. Abdelilah Slaoui (CNRS, France)
11:15	Break

Parallel Session

- ◆ Theme1: Hydrogen Life Cycle Assessment (LCA) and Techno Economic Analysis (TEA)

	Speaker	Job Title, Affiliation	Presentation Title
12:45	Moderator: Dr. Florence Lefebvre-Joud	CEA-Liten, France	
12:50	Dr. Nawshad Haque	CSIRO, Australia	Techno Economic Analysis of Renewable Hydrogen and Ammonia supply chains
13:15	Dr. Myriam Merad	CNRS-Paris Dauphine, France	Sustainability of territorial transitions toward Decarbonated Hydrogen: a multidisciplinary, multi-actors and multi-criteria approach
13:40	Dr. Amgad A. Elgowainy	Argonne National Lab, US	Life Cycle Analysis (LCA) and Techno Economic Analysis (TEA) of Hydrogen Production Pathways and End Use Applications
14:05	Dr. Yuki Kudoh	AIST, Japan	Contribution of Capital Goods on the “Life Cycle CO2 Emissions of Hydrogen Technology – A Case of Ammonia Power Generation –
14:30	Mr. Thomas Roos	CSIR, South Africa	Economics of Green Hydrogen production in South Africa
14:55	Group 1 Panel discussion		

15:20	Break		
15:50	Dr. Monika Bosilj	Fraunhofer ISE, Germany	Catalysis for Power-to-X Processes
16:15	Dr. Jennifer Kurtz	NREL, US	Reducing the Risk of Deploying Hydrogen Technologies through Large- Scale R&D
16:40	Mr. Souvik Bhattacharjya	TERI, India	Environmental Sustainability Assessment of Different Beverage Packaging Substrates in India Using LCA
17:05	Prof. Dr. Mario Ragwitz	Fraunhofer IEG, Germany	Hydrogen infrastructures in an integrated European energy system – determinants and modelling options
17:30	Dr. Farid Bensebaa	NRC, Canada	Integrated and bottom-up LCA/TEA framework and its use to support research and policy – Hydrogen Case Study
17:55 – 18:20	Group2 Panel discussion		

◆ Theme2: Renewable Energy Generation and Integration

	Speaker	Job Title, Affiliation	Presentation Title
12:45	Moderator: Dr. Christian Thiel	JRC, EU	
12:50	Dr. Nancy Haegel	NREL, US	PV at Multi-Terawatt Scale: Today's Choices, Tomorrow's Role
13:15	Dr. Tetsuya Kogaki	AIST, Japan	Recent R&D activities in AIST for Japan's offshore wind power deployment
13:40	Dr. Gareth Erfort	CSIR, South Africa	Offshore wind opportunities for South Africa
14:05	Ms. Kate Cavanagh	CSIRO, Australia	Accelerating the transformation of the Australian energy grid
14:30	Break		
14:55	Mr. Shirish S Garud	TERI, India	Making India's Renewable Energy Targets a reality

15:20	Mr. Marcos Politi	INTI, Argentina	IOT for Integration of Renewable Energy
15:45	Dr. Kenji Otani	AIST, Japan	Advanced R&D Platform for Decarbonized Power Grid with Inverter-based Distributed Energy Resources
16:10	Dr. Georgia Kakoulaki	JRC, EU	Floating photovoltaics, a solution to combine hydro- and solar power
16:35-17:30	Panel discussion		

◆ Theme3: Carbon Management

	Speaker	Job Title, Affiliation	Presentation Title
12:45	Moderator: Dr. David Harris	CSIRO, Australia	
12:50	Dr. William Tumas	NREL, US	Challenges and Opportunities for Carbon Dioxide Capture and Utilization
13:15	Dr. Jennifer Littlejohns	NRC, Canada	Opportunities in Bioenergy and Waste-to-Energy with Carbon Capture Utilization and Storage in Canada
13:40	Dr. Shinichirou Morimoto	AIST, Japan	Current review and activities of LCA for carbon mineralization
14:05	Dr. Nicholas Musyoka	CSIR, South Africa	Carbon Capture and Utilisation (CCU) research activities at the South Africa's Council for Scientific and Industrial Research (CSIR)
14:30	Break		
14:55	Dr. Graeme Puxty	CSIRO, Australia	Emerging CO2 capture technologies for DAC and 'hard to abate' industry sectors
15:20	Dr. Atul Sharma	AIST, Japan	Innovative application of chemical-looping technology for CO2 reduction, recycle and removal
15:45	Dr. Valérie Keller	CNRS/University of Strasbourg, France	Different approaches for CO2 reduction and valorisation

			using Solar Energy within the French Solar Fuels Network
16:10	Prof. Dr. Eniya Listiani Dewi	BRIN, Indonesia	Get Carbon Neutral and Economic Benefit in 2060
16:35-17:30	Panel discussion		