



The
ICONIC MEETINGS
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World Conference on Catalysis and Chemical Engineering

April 06–08, 2026 | Tokyo, Japan

PROGRAM



E: WCCCE-2026@iconic-meetings.info
W: <https://catalysis.theiconicmeetings.com/>

Day 1 (April 06, 2026)	
MainHall	
08:30-09:30	Registrations
09:30-09:35	Introduction
09:35-10:00	Opening Ceremony
Plenary session	
10:00-10:45	Title: Material-System Co-Design: An Essential Approach to the Development of Hydrogen Storage Materials Mark D. Allendorf (Department of Chemistry), Sandia National Laboratories, USA
10:45-11:30	Title: Influence of the Mn Promoter on the Composition and Activity of the Adsorbed Phase in the Carbon Paths of the CO Hydrogenation Reaction on 20 wt% Co/MnO_x-Al₂O₃: An Operando Angelos M. Efstathiou (Professor of Chemistry), University of Cyprus, Cyprus
11:30-11:50	Refreshments Break@ Foyer
Keynote Session	
11:50-12:25	Title: The Co/NbN interphase as an effective ammonia synthesis catalyst Jakob Kibsgaard (Department of Physics Surface Physics and Catalysis), Technical University of Kongens Lyngby, Denmark
12:25-12:55	Title: Emergent Mechanisms in Biocatalysis Todd Hyster (Research Organic Chemistry, Biocatalysis), Chemistry at Princeton University, USA
12:55-13:55	Group Photo & Lunch Break
Invited Talks	
13:55-14:30	Title: Direct Visualization and Analysis of Miscibility in Metallic and Inorganic Subnanometer Clusters Kimihiya Yamamoto (Professor in Chemical engineering), Tokyo Institute of Technology, Japan

14:30-15:05	Title: Phenyl-Modified g- C₃N₄/TiO₂ Hybrids: A Combined Computational and Experimental Investigation for Sustainable Photocatalysis Shelly S. Schaefer (Department of Photocatalytic), Dipartimento Di Fisica Universita Degli studi Di Cagliari, Italy
Featured Talks	
15:05-15:20	Title: A biohybrid strategy for enabling photoredox catalysis with low-energy light Minjung Son (Assistant Professor), Boston University Newton, Massachusetts
15:20-15:35 Refreshments Break@ Foyer	
15:35-16:00	Title: Nickel-Catalyzed Simultaneous Iron and Cerium Redox Reactions for Durable Chemical Looping Dry Reforming of Methane Shang Zhai (Assistant Professor), The Ohio State University, Columbus,United States
16:00-16:25	Title: Microstructure and Viscoelasticity of Oppositely Charged Ionomer Blend Melts Shuyi Xie (Assistant Professor), Texas A&M University, United States
Speaker Slots Available	
Day 2 (April 07, 2026)	
08:30-09:30 Registrations	
Plenary Session	
10:00-10:45	Title: Material-System Co-Design: An Essential Approach to the Development of Hydrogen Storage Materials Mark D. Allendorf (Department of Chemistry), Sandia National Laboratories, USA
10:45-11:30	Title: Influence of the Mn Promoter on the Composition and Activity of the Adsorbed Phase in the Carbon Paths of the CO Hydrogenation Reaction on 20 wt% Co/MnO_x-Al₂O₃: An Operando Angelos M. Efstathiou (Professor of Chemistry), University of Cyprus, Cyprus

11:30-11:50		Refreshments Break@ Foyer
Keynote session		
11:50-12:25	Title: The Co/NbN interphase as an effective ammonia synthesis catalyst	
	Jakob Kibsgaard (Department of Physics Surface Physics and Catalysis), Technical University of Kongens Lyngby, Denmark	
12:25-12:55	Title: Emergent Mechanisms in Biocatalysis	
	Todd Hyster (Research Organic Chemistry, Biocatalysis), Chemistry at Princeton University, USA	
12:55-13:55		Group Photo & Lunch Break
13:55-14:30	Title: Direct Visualization and Analysis of Miscibility in Metallic and Inorganic Subnanometer Clusters	
	Kimihiya Yamamoto (Professor in Chemical engineering), Tokyo Institute of Technology, Japan	
14:30-15:05	Title: Phenyl-Modified g-C ₃ N ₄ /TiO ₂ Hybrids: A Combined Computational and Experimental Investigation for Sustainable Photocatalysis	
	Shelly S. Schaefer (Department of Photocatalytic), Dipartimento Di Fisica Universita Degli studi Di Cagliari, Italy	
Featured Talks		
15:05-15:20	Title: A biohybrid strategy for enabling photoredox catalysis with low-energy light	
	Minjung Son (Assistant Professor), Boston University Newton, Massachusetts	
15:20-15:35		Refreshments Break@ Foyer
15:35-16:00	Title: Nickel-Catalyzed Simultaneous Iron and Cerium Redox Reactions for Durable Chemical Looping Dry Reforming of Methane	
	Shang Zhai (Assistant Professor), The Ohio State University, Columbus, United States	
16:00-16:25	Title: Microstructure and Viscoelasticity of Oppositely Charged Ionomer Blend Melts	
	Shuyi Xie (Assistant Professor), Texas A&M University, United States	
Speaker Slots Available		

Day 3 (April 08, 2026)

MainHall

08:30-09:30 Registrations

Plenary session

10:00-10:45 **Title: Influence of the Mn Promoter on the Composition and Activity of the Adsorbed Phase in the Carbon Paths of the CO Hydrogenation Reaction on 20 wt% Co/MnO_x-Al₂O₃: An Operando**

Angelos M. Efstathiou (Professor of Chemistry), University of Cyprus, Cyprus

10:45-11:30 **Title:Complex Coacervates: From Polyelectrolyte Solutions to Multifunctional Hydrogels for Bioinspired Crystallization**

Helmut Coelfen (Professor for Physical Chemistry), University of Konstanz, Germany

11:30-11:50 Refreshments Break@ Foyer

Keynote session

11:50-12:25 **Title: Catalytic Methane Pyrolysis to Carbon Nanotubes — Temperature Effect and Separation Methods**

Fenglou Zou (Research & Development on polymer, bio-fuel, and catalyst), Volta Energy, Canada

12:25-12:55 **Title: A New Trend in Alumina Refineries: Production of Pseudoboehmite as HDS and HDN Catalyst Support Material from Bayer Liquor**

Ibrahim Demir (Professor of Chemistry), Eti Aluminium, Turkey

12:55-13:55 Group Photo & Lunch Break

13:55-14:30 **Title:Self-driving laboratory platform for many-objective self-optimisation of polymer nanoparticle synthesis with cloud-integrated machine learning and orthogonal online analytics**

Richard Bourne (Professor of Digital Chemical Engineering), University of Leeds, United Kingdom

14:30-15:05 **Title:Self-supported high entropy materials as robust water splitting electrocatalysts, optimising platinum group metals utilization**

Jonathan Ruiz Esquius (Research), Carbon Science and Technology Institute (INCAR-CSIC), Spain

Featured Talks

15:05-15:20 **Title: Microstructure and Viscoelasticity of Oppositely Charged Ionomer Blend Melts**

Shuyi Xie (Assistant Professor), Texas A&M University, United States

15:20-15:35

Refreshments Break@ Foyer

15:35-16:00 **Title: Thermodynamics-informed machine learning for predicting temperature-dependent chemical properties**

Seyed Mohamad Moosavi (Assistant Professor), University of Toronto, Canada

16:00-16:25 **Title: Locating dislocations in organic crystals**

Qian Chen (Professor), China University of Petroleum, China

16:25-16:50 **Title: Contact electrification of a live metallocene catalyst and its components in an atmospheric polyethylene fluidized bed**

Poupak Mehrani (Professor of Chemical and Biological Engineering), University of Ottawa, Canada

Speaker Slots Available