



I²CNER's 10th Anniversary Symposium in Tokyo
Energizing the world and the future by strengthening research and
cultural bridges across the Pacific

Date: December 16, 2019

Location: Hitotsubashi Hall (<http://www.hit-u.ac.jp/hall/facility.html>), **Tokyo, Japan**

MC: Andrew Chapman, Energy Analysis Division, I²CNER, Kyushu University

Registration	12:00-	
Opening Remarks	13:00-13:05	Chiharu Kubo President, Kyushu University
Greetings	13:05-13:20	Yoshio Yamawaki Senior Deputy Minister, Ministry of Education, Culture, Sports, Science and Technology (MEXT) Akira Ukawa Program Director, World Premier International Research Center Initiative (WPI) Nicholas Hill Deputy Chief of Mission, The U.S. Embassy in Japan
Introduction	13:20-13:40	Petros Sofronis Director, I ² CNER, Kyushu University University of Illinois at Urbana-Champaign
Session I <i>I²CNER's "Headline" Successes</i>	13:40-14:40	Electrochemical energy conversion <i>Tatsumi Ishihara¹, Nicola Perry²</i> ¹ Lead Principal Investigator, Molecular Photoconversion Devices Research Division, I ² CNER ² Materials Science and Engineering, University of Illinois at Urbana-Champaign, I ² CNER <i>15 minutes</i> Structural materials in gaseous environments Masanobu Kubota ¹ , Akihide Nagao ² ¹ Principal Investigator, Hydrogen Materials Compatibility Research Division, I ² CNER ² WPI Visiting Scholar, I ² CNER <i>15 minutes</i>



		<p>CO₂ management <i>Shigenori Fujikawa¹, Takeshi Tsuji²</i> ¹Lead Principal Investigator, CO₂ Capture and Utilization Research Division, I²CNER ²Lead Principal Investigator, CO₂ Storage Research Division, I²CNER <i>15 minutes</i></p> <p>Catalysis for 21st century energy technologies <i>Seiji Ogo¹, Miho Yamauchi²</i> ¹Lead Principal Investigator, Catalytic Materials Transformations Research Division, I²CNER ²Principal Investigator, Catalytic Materials Transformations Research Division, I²CNER <i>15 minutes</i></p>
<p>Session II Energy Transitions</p>	<p>14:40-15:00</p>	<p>Hydrogen-powered Japan/World <i>Katsuhiko Hirose</i> CEO Chief Consultant, HyWealth Co., I²CNER <i>10 minutes</i></p> <p>Energy Trends in the United States <i>Ross Matzkin-Bridger</i> Energy Attaché, DOE Director, U.S. Embassy in Tokyo <i>10 minutes</i></p>
<p>Break</p>	<p>15:00-15:15</p>	
<p>Session III Foundation and Roadmap to the Future</p>	<p>15:15-16:55</p>	<p>Pushing toward the hydrogen-energy-based economy to realize a future carbon neutral society in Japan <i>Ken Okazaki</i> Unit Leader, Global Hydrogen Energy Research Unit Institute for Innovative Research Tokyo Institute of Technology <i>20 minutes</i></p> <p>The Role of CCUS in the Global Management of CO₂ Emissions <i>Michael Celia</i> Director, Princeton Environmental Institute, Princeton University I²CNER External Advisory Committee Member <i>30 minutes</i></p>



		<p>The Role of Negative CO₂ Emission in the Carbon-Neutral World <i>Toyoki Kunitake</i> Institute for Advanced Study, Kyushu University; Nano Membrane Technology, Ltd. <i>20 minutes</i></p> <p>Energy Without Carbon <i>George Crabtree</i> Director, Joint Center for Energy Storage Research, Argonne National Laboratory <i>30 minutes</i></p>
Break	16:55-17:10	
Panel Discussion	17:10-18:10	<p>James Stubbins, Moderator Department of Nuclear, Plasma, and Radiological Engineering, University of Illinois at Urbana-Champaign, I²CNER</p> <p>Katsuhiko Hirose CEO Chief Consultant, HyWealth Co., I²CNER</p> <p>Michael Celia Director, Princeton Environmental Institute, Princeton University</p> <p>George Crabtree Director, Joint Center for Energy Storage Research Argonne National Laboratory</p> <p>Ken Okazaki Unit Leader, Global Hydrogen Energy Research Unit Institute for Innovative Research Tokyo Institute of Technology</p> <p>Yukihiro Higashi Research Center for Next Generation Refrigerant Properties, (NEXT-RP), I²CNER</p> <p>Kathryn Huff Department of Nuclear, Plasma, & Radiological Engineering, University of Illinois at Urbana-Champaign, I²CNER</p>
Closing Remarks	18:10-18:20	<p>Rashid Bashir Dean, Grainger College of Engineering, University of Illinois at Urbana-Champaign</p>

