



INTERNATIONAL INSTITUTE FOR CARBON-NEUTRAL ENERGY RESEARCH

## **I<sup>2</sup>CNER TOKYO SYMPOSIUM**

### ***Japan-US Collaboration on Energy***

***Nexus, TKP Garden City Shinagawa***

***1F Shinagawa Goos, 3-13-3 Takanawa, Minato-ku, Tokyo***

***December 12, 2014***

- OBJECTIVE:** i) Demonstrate how collaboration between Japanese and US academic and research institutions is providing carbon-neutral energy solutions that will impact our respective countries and more broadly the world; ii) show how merging Japan and the US academic and research cultures is impacting and transforming multi-disciplinary international research and academic infrastructures; iii) explore how what can be done to improve, enhance and accelerate the translation of our research to influence energy policy and directions.
- DISCUSSION TOPIC:** How I<sup>2</sup>CNER can bring the U.S. and Japan together regarding Carbon-Neutral Energy in research and education
- PARTICIPANTS:** U.S. Embassy, MEXT, JSPS, Office of Science and Technology Policy, Senior officials, and experts dealing with “Green Innovation” from the Japanese Government, Research Institutes, and Funding Agencies
- LANGUAGE:** Simultaneous translation in Japanese and English
- CAPACITY:** 200
- PROGRAM:**
- 13:00-13:05      **OPENING REMARKS**  
**Chiharu Kubo**  
President, Kyushu University
- 13:05-13:20      **GREETINGS**  
**Yutaka Tokiwa**

Director-General, Research Promotion Bureau, Ministry of Education,  
Culture, Sports, Science and Technology (MEXT)  
(5 min.)

**Toshio Kuroki**  
WPI Program Director  
(5 min.)

**U.S. Embassy in Japan**  
Representative  
(5 min.)

13:20-13:40 *"Internationalization of Scientific Research in the Search for Global Energy Solutions"*  
**Petros Sofronis**  
I<sup>2</sup>CNER, Director, Kyushu University, University of Illinois at Urbana-Champaign

13:40-15:00 **SESSION I: INTERNATIONAL RESEARCH FOR ADVANCING CARBON-NEUTRAL ENERGY TECHNOLOGIES**  
*"International Approach to Developing Technologies for Aggressive CO<sub>2</sub> Emissions Reduction by 2050"*  
**Kenshi Itaoka**  
I<sup>2</sup>CNER, Kyushu University  
(20 min.)  
*"Unraveling Pore-Scale Processes Central to Safe and Reliable Geologic CO<sub>2</sub> Storage Through a Collaborative Numerical, Experimental, and International Approach"*  
**Takeshi Tsuji/Ken Christensen**  
I<sup>2</sup>CNER, Kyushu University/ I<sup>2</sup>CNER, University of Notre Dame  
(30 min.)

*"Inspired by Nature—New Energy Sources from Hydrogenase Model Complexes"*  
**Seiji Ogo**  
I<sup>2</sup>CNER, Kyushu University  
(30 min.)

15:00-15:20 BREAK

15:20-16:50 **SESSION II: INITIATIVES FOR CARBON-NEUTRAL ENERGY APPROACHES IN JAPAN AND THE U.S.**  
*"Federal Energy and Materials Policy, Opportunities for Bilateral Cooperation"*  
**Cyrus Wadia**

Assistant Director, Clean Energy and Materials, R&D  
Office of Science and Technology Policy  
(45 min.)

*"The Future of CO<sub>2</sub> Management in Japan"*

**Toyoki Kunitake**

President

Kitakyushu Foundation for the Advancement of Industry Science and Technology  
(45 min.)

16:50-17:50

PANEL DISCUSSION

i) What energy mixes make the most sense in the future for Japan and the U.S. to reduce greenhouse gas emissions by more than 70% and why; ii) how Japan and the U.S. can collaborate to develop green energy technologies of mutual interest; iii) how I<sup>2</sup>CNER can help

**Jim Stubbins**, Moderator, I<sup>2</sup>CNER, University of Illinois at Urbana-Champaign

**Toyoki Kunitake**

**Cyrus Wadia**

**Takeshi Tsuji**

**Shigenori Fujikawa**

**Ken Christensen**

**Kenshi Itaoka**

17:50-18:00

CLOSING REMARKS

**Kazunari Domen**

WPI Program Officer

18:30-20:00

RECEPTION

**Nexus, TKP Garden City Shinagawa**

1F Shinagawa Goos, 3-13-3 Takanawa, Minato-ku, Tokyo

Greetings & Toast

**Jeffrey Miller**

Energy Attaché, the U.S. Embassy in Japan

Free Conversation

Closing Remarks

**Hideki Iwabuchi**

Director, World Premier International Research Center Initiative  
/ Office for Basic Research Projects

Basic Research Promotion Division, Research Promotion Bureau,  
Ministry of Education, Culture, Sports, Science and Technology (MEXT)