

# 9<sup>th</sup> KIFEE (Kyoto International Forum for Environment and Energy) Symposium

**Period:** March 7 (Tue.)-10(Fri.), 2017

**Place:** Kambaikan, Doshisha University, Kyoto

**Subject:**

- 【1】 Process Engineering
- 【2】 Electrolysis Systems and Advanced Inorganic Materials
- 【3】 Advanced Biological Materials
- 【4】 Education in Energy and Environment

**Special Session:**

- “Energy and Environment Issues”
- “Strategic Session - I. Hydrogen Society, II. Industrial Platform-”
- “Sustainability Session: Smart Use of Energy and Materials”
- “International Higher Education Program”

**Program:**

7<sup>th</sup> (Tue.):

Evening: Registration and General Reception

8<sup>th</sup> (Wed.):

9:30~10:10      Opening Session (10 min. each)

Mr. Tom Knappskog, Counsellor, Royal Norwegian Embassy

Prof. Takashi Matsuoka, President, Doshisha University

Prof. Anne Borg, Dean of the Faculty of Natural Science, NTNU

Chairman's address

10:10~10:40      Break

10:40~11:40      Energy and Environment Issues

10:40~11:00

“Renewable Energy R&D in FREA”

Dr. Yoshiro Owadano, Director, Fukushima Renewable Energy Institute, AIST

11:00~11:20

“Vibrant Change - on the Road to the Low Emission Society”

Dr. Nils Kristian Nakstad, Enova

11:20~11:40

“Concept and Technology for Energy and Environment of Mayekawa Mfg.”

Dr. Kuniaki Kawamura, Chairman, Japan Frozen Food Association

11:40~11:50      Break

11:50~12:50      Overview for Target Session

11:50~12:05 Process Engineering

12:05~12:20 Electrolysis Systems and Advanced Inorganic Materials

12:20~12:35 Advanced Biological Materials

12:35~12:50 Education in Energy and Environment

12:50~13:30      Lunch

13:30~18:00      4 Parallel Sessions

18:30~20:30      Banquet (General Participants)

Student Get Together (Registered Student Participants)

9<sup>th</sup> (Thu.):

9:00~10:30      Strategic Session I. –Hydrogen Society–

9:00~9:30

“Introduction of Hydrogen Power Generation and Smart Energy Grid Community in Doshisha Univ. and Kyoto-Keihanna Area”

Prof. Jiro Senda, Director of Energy Conversion Research Center, Doshisha University

9:30~10:00

“Market Developments for Hydrogen in Norway - in a European Context”

Dr. Steffen Møller Holst, SINTEF

10:00~10:30

“Investigation of Ammonia as a Hydrogen Carrier and Application to Fuel Cells”

Prof. Koichi Eguchi, Kyoto University

10:30~10:40      Break

10:40~12:10      Strategic Session II. –Industrial Platform–

10:40~11:10

“Production of Functional Materials for Health and Nutrition from Renewable Resources”

Dr. Takeshi Takaha, Ezaki Glico Co., Ltd.

11:10~11:40

“New Technologies for Sustainable Production of Metals”

Prof. Geir Martin Haarberg, NTNU

11:40~12:10

“Challenge of Osaka Gas towards the realization of a low-carbon society”

Dr. Yuki Yoshi Fukano, Osaka Gas Co., Ltd.

12:10~13:00      Lunch

13:00~18:00      4 Parallel Sessions

18:30~20:30      The NorAlumni Japan Event (Invited participants only)

10<sup>th</sup> (Fri.):

9:30~11:30      Sustainability Session – Smart Use of Energy and Materials–

9:30~10:00

“Strategic Research Area NTNU Energy”

Prof. Peter Neksa, NTNU/SINTEF

10:00~10:30

“Separation and Micronization of Natural Materials by Supercritical Fluid Technology”

Prof. Motonobu Goto, Nagoya University

10:30~11:00

“The Icelandic energy system and the role of geothermal energy”

Prof. Gudrun Saevarsdottir, Iceland

11:00~11:30

“Development of seafloor REY-rich mud deposit toward a sustainable future”

Prof. Yasuhiro Kato, University of Tokyo

11:30~11:40      Break

11:40~12:40      International Higher Education Program

11:40~11:44      Introduction

11:44~11:56

“Experience in Double Degree Program – Doshisha University and NTNU-”

Prof. Hiroyuki Miyamoto and Mr. Yoshiyuki Azekawa, Doshisha University

11:56~12:08

“Integration of Industry into Education”

Prof. Trygve M Eikevik, NTNU

12:08~12:20

“Creative Engineering Program of Nagoya Institute of Technology”

Prof. Yasushi Ido, Vice President, Nagoya Institute of Technology

12:20~12:32

“Collaboration “Summer School on Sustainable Energy in Cities (SEniC)” Based on Experts in Team Work as the pedagogic principle”

Prof. Vojislav Novakovic, NTNU

12:32~12:40      Conclusion

12:40~13:30      Lunch

13:30~14:30      Workshop Presentation and Closing