

JST session

International Workshop: “Expectations and Prospects of Ammonia Fuel derived from Renewable Energy”

Date & Time: Thursday, 21st June 2018, 13:00-16:30

Room: 501

Organizer: Japan Science and Technology Agency (JST)

Language: English

Concept:

Hydrogen energy is expected to play an important role for constructing a low carbon society. Since hydrogen is gaseous at normal state, it is difficult to transport and storage efficiently. However, "Energy carriers" in liquid state can make it possible.

Ammonia, one of the hydrogen energy carriers, has attracted attention recently because it can be used directly as a fuel. In the Cross-ministerial Strategic Innovation Promotion Program (SIP), we have been doing R & D to build a value chain of green ammonia. The value chain contains following processes, production of ammonia using hydrogen derived from renewable energy overseas, transportation, and utilization of ammonia in Japan. In this session we invite several famous experts from industry and academia well versed in hydrogen and ammonia. We will discuss the expectations and prospects of ammonia derived from renewable energy.

Program (Preliminary Program)

13:00-13:10 Prof. Ken-ichi Aika

Tokyo Institute of Technology

Deputy Program Director, SIP Energy Carriers

Opening remarks

13:10-13:30 <Invited> “Basic Hydrogen Strategy and the Role of CO₂-free Hydrogen”

Prof. Ken Okazaki

Tokyo Institute of Technology

13:30-13:50 <Invited> “Novel Catalysts for Enabling Ammonia as an Energy Vector”

Prof. William David
University of Oxford

13:50-14:10 <Invited> “Green Ammonia Ambition”

Dr. Rob. Stevens
VP, Technology Scouting
Yara International ASA

14:10-14:25 Break

14:25-14:45 <Invited> “Ammonia as a Renewable Energy Carrier: Opportunities & Challenges”

Dr. Nikunj Gupta
Hydrogen Theme Lead
Shell New Energy Technologies

14:45-15:05 <Invited> “The Ammonia Synthesis Technology Portfolio”

Mr. Trever Brown
Founder / Consultant
AmmoniaIndustry.com

15:05-15:10 Break

15:10-16:25 Discussions

< Facilitator >

Mr. Shigeru Muraki
Program Director, SIP Energy Carriers

16:25-16:30 Mr. Shigeru Muraki

Closing