

Program for Hydrogen and fuel cells; end use and storage, Tokyo, May 28

OVERALL PROGRAM

Plenary session: 09:30-12:00

Lunch 12:00-13:00

Parallel sessions: 13:00-17:30

Seafood reception: 18:00-20:00

Venue: [Tokyo International Exchange Center](#)

Room: <name of room>

Contact persons:

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Mr. Trygve U. Riis, Research Council of Norway, tur@rcn.no

Background: Japan has high competence and long traditions in the field of hydrogen and fuel cell technologies, including leading auto manufacturers of fuel cell electric vehicles and more than 100 000 small (kW) scale stationary fuel cells in operation. Norway has for more than 4 decades been a large producer of hydrogen by water electrolysis as precursor for fertilizer production. Based on vast unexploited fossil and renewable energy resources (hydro/wind), Norway may (again) become a large scale producer and exporter of hydrogen, preferably transported in liquid form to the market e.g., in Japan.

Objectives: To facilitate increased bilateral R&D and industry collaboration between Japanese and Norwegian stakeholders in the field of hydrogen technologies

Chairs:

Name(s), Affiliation(s) (Bjørn Simonsen? NO, NN JP),

11:00-11:20

Hydrogen material safety issues

Vigdis Olden possibly with I2CNER

Senior Research Scientist, SINTEF Materials and Chemistry

11:20-11:40

Topics and Trends of Hydride Research in Japan

Shin-ichi Orimo

Professor, Tohoku University,

11:40-12:00

Hydrogen storage – perspectives from Norway

Bjørn Hauback

Head of Department, Institute for Energy Technology

12:00-13:00

Lunch

13:00-13:20

Compact and Efficient On-site Reformers for Hydrogen Refueling Stations

Retsu Hayasida

Mitsubishi Kakoki Kaisha Ltd.

13:20-13:40

Small scale hydrogen production by direct reforming and compression using proton ceramic pumps

Truls Nordby

Professor Univ of Oslo and Protia

13:40-14:00

Proton Ceramic Fuel Cells and Steam Electrolyzers for Hydrogen

Hiroshige Matsumoto

Professor, Kyushu University/I2CNER,

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14:00-14:20	PEM Fuel Cell Stacks and Systems for Heavy Duty Transport Applications Presenter TBD Affiliation
14:20-14:40	Solar hydrogen production Ryu Abe Professor, Kyoto University
14:40-15:10	Coffee and tea break
15:10-15:30	Unitized regenerative fuel cells for hydrogen energy storage systems Hiroshi Ito Senior Researcher AIST, Tsukuba
15:30-15:50	Ceramic steam electrolysis and fuel processing using ceramic proton conductors Truls Norby Professor, University of Oslo
15:50-16:10	H2 economic studies and the way forward Takuya Hasegawa Senior Innovation Researcher, Nissan Research Center
16:10-16:30	TBD 1 TBD NN
16:30-17:30	Round table summing up – plans for future collaboration