

21st INAMORI Frontier Research Seminar

Date : 16:30-18:00

22nd July, 2016

Venue : Seminar Room

INAMORI Center 2F



Lecturer: Dr. Atsushi Urakawa

Group Leader, ICIQ

(Institut Català d'Investigació Química)

**Title: Continuous Catalytic Conversion of
Carbon Dioxide to Chemical Fuels and
Operando Spectroscopic Investigations**

About Lecturer

Dr. Urakawa obtained B.Sc. at Kyushu University. He continued his education at Delft University of Technology in Netherlands for M.Sc. study and further at ETH Zurich in Switzerland for his Ph.D. study. In 2006, he undertook a position as Oberassistent (Senior Scientist/Lecturer) at ETH Zurich. In Jan. 2010, he joined ICIQ as Group Leader.



His current major research activities are centered on catalysis for environmental protection and synthesis of future chemical energy carriers such as hydrogen and methanol. Notably, his team actively researches on CO₂ conversion catalysis and recently reported the most efficient process to produce methanol and dimethyl ether from carbon dioxide and hydrogen using high-pressure approach with a granted patent. Furthermore, to facilitate rational catalyst and process design, his team develops new spectroscopic and analysis tools to gain fundamental insights into the catalytically active sites and active species under catalysts' working (operando) conditions, aiming to establish catalyst structure-activity relationship.

Organizer:

Michihisa Koyama, Professor

INAMORI Frontier Research Center, Kyushu University

TEL/FAX 092-802-6968 e-mail: koyama @ ifrc.kyushu-u.ac.jp