

Title **Green Hydrogen and Fuel Cells for
Future Sustainable Growth**

Speaker Prof. Kenichiro Ota
Professor
Graduate school of Engineering
Yokohama National University



Date & Time Friday, November 6, 2015 1:30 p.m.
Place I²CNER Hall, Ito campus, Kyushu University

Abstract

Considering the future sustainable growth of human beings, renewable energies should be the primary energy. The Green Hydrogen is the clean energy carrier that is made from water using renewable energies. Once we could get Green Hydrogen, we could produce clean electricity through fuel cells without any pollutants. Polymer electrolyte fuel cells have started their commercialization for home cogeneration system and fuel cell vehicles. We are developing non precious metal oxide cathode for polymer electrolyte fuel cells using group 4 and 5 metal oxides. A fuel cell test of our material showed more than 1 A/cm² at 80°C. These new material could contribute to promote the Green Hydrogen Energy System.

About the Speaker

Dr. Kenichiro Ota is a professor and a chairperson of Green Hydrogen Research Center at Graduate School of Engineering, Yokohama National University, Japan. He received his B.S.E. in Applied Chemistry from the University of Tokyo in 1968, and Dr. of Eng. from the University of Tokyo in 1973. After graduation he worked at the Faculty of Engineering, The University of Tokyo as a research associate from 1974 to 1979. In 1979 he moved to Yokohama National University, Faculty of Engineering as an associate professor. He became a professor of Faculty of Engineering, Yokohama National University in 1995. He has worked on hydrogen energy and fuel cell since 1974. He was the president of the Hydrogen Energy Systems Society of Japan from 2000 to 2008 and the president of the Electrochemical Society of Japan in 2008. He is the chairman of the Fuel Cell Development Information Center.

Host: Professor Hiroshige Matsumoto

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