

Title **Structure & Reactivity of Transition Metal-Nitrogen-Carbon Electrocatalysts for Oxygen Reduction**

Speaker Prof. Plamen Atanassov
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Department of Chemical & Biological Engineering
The University of New Mexico
USA



Date & Time Friday, September 16, 2016 4:00 p.m.

Place I²CNER Hall, Ito campus, Kyushu University

Abstract

Platinum Group Metal-free (PGM-free) catalysts have been extensively developed for both Proton Exchange Membrane (PEM) and Alkaline Exchange Membrane (AEM) fuel cells aiming automotive, stationary and portable applications. In this lecture we will address the critical challenges that our team has faced on the way to practical application of such catalysts.

About the Speaker

Professor Plamen Atanassov graduated from the University of Sofia (1987) specializing in Chemical Physics & Theoretical Chemistry. He joined the Bulgarian Academy of Sciences (BAS) and became a Member of Technical Staff of its Central Laboratory of Electrochemical Power Sources (now the Institute for Electrochemistry & Power Systems). His initial work included materials solutions for metal-air batteries. He was a visiting scientist at the Frumkin's Institute of Electrochemistry Moscow, Russia studying bio-electrochemistry of enzymes and received a PhD in Physical Chemistry/Electrochemistry from BAS. He moved to the United States in 1992 and became a research faculty with the University of New Mexico (UNM). During the 90s he was involved in development of a several electrochemical biosensor technologies for biomedical, environmental, food safety and defense applications. In 1999 Plamen Atanassov joined Superior MicroPowders LLC (acquired later by Cabot Corp.), where he was a project leader in fuel cell electrocatalysts development, and introduced spray pyrolysis for catalyst synthesis on industrial scale. He returned to UNM in 2000 as faculty member of the Chemical & Nuclear Engineering department. He is affiliated with Los Alamos National Laboratory and is Honorary Professor of BAS. He serves as a Vice-President of the International Society of Electrochemistry and is an Member-at-Large of the Electrochemical Society.

Host: Prof. Stephen Lyth

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