

Title **Playing 3D Templates in Nano/Micro Scales
- Block Copolymer, Algae, Diatom, and Protein -**

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Date & Time Friday, September 9, 2016 4:00 p.m.

Place I²CNER Hall, Ito campus, Kyushu University

Abstract

Our motivation to develop templated materials in nano/micro scales is placed on manufacturing processing as engineering materials so as to break stereotype of materials science, which have achieved remarkable outcomes individually in all the fields classified by the kinds of substances but often faced fatal difficulty in their own processes upon integration with other materials and their technological transfer. Less care has been taken of applicability of their fabrication processes than their new structures and properties, since they are scarcely used as they are solely but often integrated with other known materials and technology. Most of new functional materials have been created by accidental finding and its optimization in time- and effort-consuming exploratory research. Development of their fabrication processes integrated with other known materials almost holds true. Here, I would like to propose the following process-directed materials harmoniously integrating plural required materials as innovative exploratory research.

About the Speaker

Academic background:

1979 Bachelor of Engineering, Department of Hydrocarbon Chemistry, Kyoto University

1984 Doctor of Engineering, Department of Hydrocarbon Chemistry, Kyoto University

Professional career:

1984-1991: Assistant Professor, Department of Molecular Engineering, Kyoto University

1991-1993: Research Associate, Division of Chemistry, Aronne National Laboratory, USA

1994-1996: Deputy Leader, Hashimoto Photofunctional Conversion Materials Project, Kanagawa Academy of Science and Technology

1996-2002: Professor, Department of Applied Chemistry, Tokyo Metropolitan University

2002-2015 : Professor, Chemical Resources Laboratory, Tokyo Institute of Technology

2011- : Director, JST-ERATO Supra-Integrated Materials Project (-2017)

2016- : Professor, Institute of Innovation Research, Tokyo Institute of Technology

Host: Prof. Shigenori Fujikawa

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