

## Title

**Opportunities in Molecular Catalysis and Molecular Technology**

## Speaker

Dr. Shinji MURAI

Executive Director, Vice President  
Nara Institute of Science and Technology (NAIST)

## Date &amp; Time

Friday, February 10, 2012 4:00p.m.

## Place

INAMORI Hall, Ito campus,  
Kyushu University

## Abstract

The lecture will have two parts, the first on science and then on fund-raising.

We have discovered a series of new catalytic reactions which enable direct use of C-H bonds for organic synthesis. The one-step addition of C-H bonds to various olefins represents one of the most efficient, economic ways to more complex organic molecules. The reaction uses ruthenium complexes as the catalyst.

“Molecular Technology” represents application aspects of molecular science and is an important driving engine for our modern life. To further promote this important technology, a couple of new grants which have been on the way to rising will be introduced.

## About the Speaker

Dr. Shinji Murai received his B.Eng. in 1961 and Dr. Eng. in 1966 from Osaka University, where he started his academic career in 1966, became the professor 1987, and awarded with the title of Professor Emeritus in 2002. He joined in JST (Japan Science and Technology Agency) in 2002, and also he accepted a position of the executive director of Nara Institute of Science and Technology (NAIST) in 2005. He served as the President of the Chemical Society of Japan from 2006 to 2007. He received Japan Academy Prize in 2010. His research interests include synthetic organic chemistry and transition-metal-catalyzed reactions.

Host Professor Seiji OGO

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