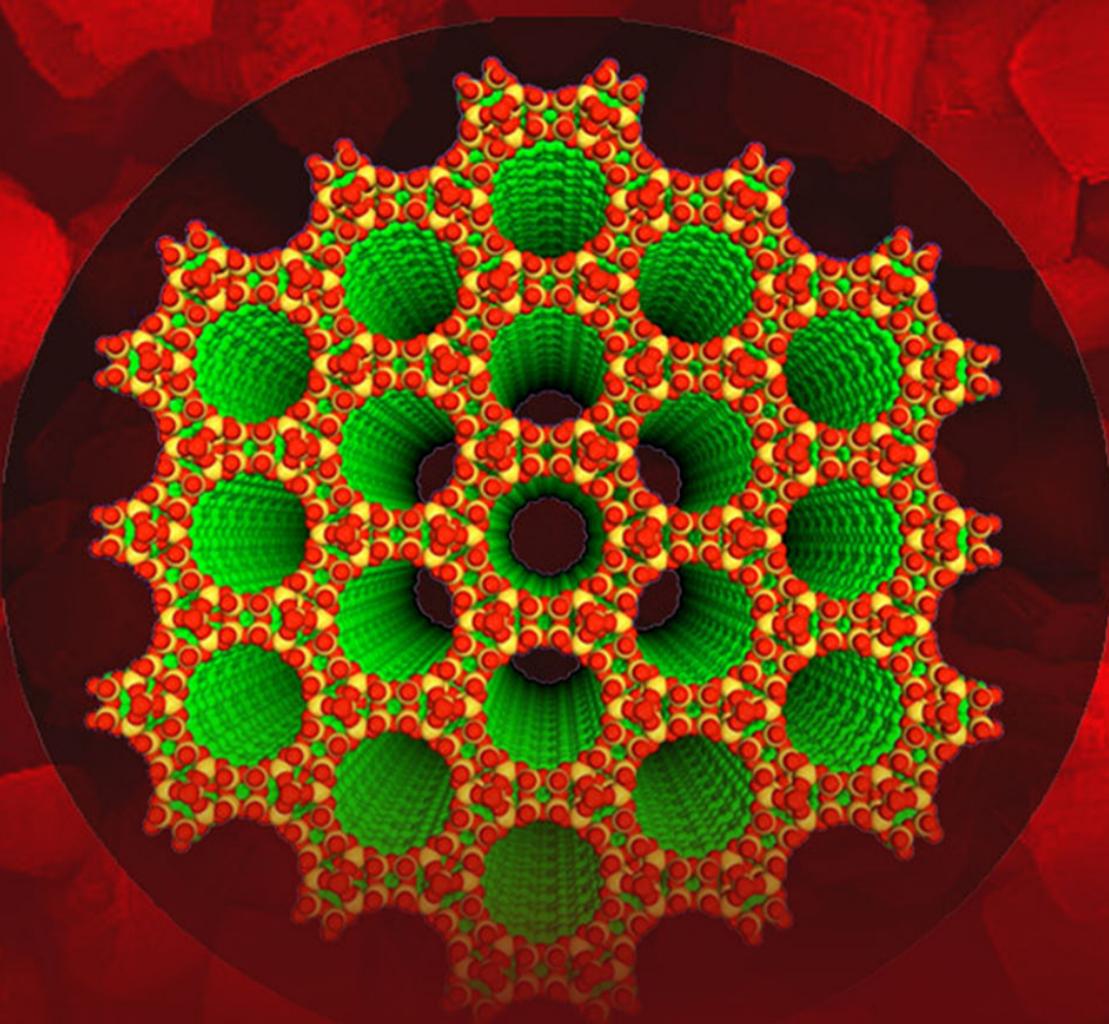




Pacific Northwest
NATIONAL LABORATORY

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Director's Distinguished Lecture Series

Professor Avelino Corma

**Research Professor, Institute of Chemical Technology
Polytechnical University of Valencia, Spain**

April 21, 2014 | 3:30 – 4:30 pm, with reception following | Battelle Auditorium

Designing Single and Multi-site Solid Catalysts

Dr. Corma will describe the process of designing selective solid catalysts, starting from the molecular-level knowledge of the reaction to be catalyzed, and ending with a catalyst that is tailored to optimize the desired interactions. He will discuss current approaches from his research, such as introducing active sites into crystalline nanoporous materials, enabling new reactions. He will also describe how deposited metallic clusters and nanoparticles can open catalytic reaction routes that were not possible before.

ABOUT PROFESSOR CORMA

A pioneer in the science and industrial application of catalysis, Dr. Corma can be likened to a modern-day Thomas Edison because of his broad interests and ability to translate fundamental science into application. He is an internationally recognized expert in molecular design of catalysts and sustainable catalytic processes for oil refining and biomass derivatives. Dr. Corma has more than 100 catalysis-related patents to his name, with 12 of them in commercial operation. He is a member of the U.S. National Academy of Engineering and serves on the Advisory Board for the Institute for Integrated Catalysis at Pacific Northwest National Laboratory.

PNNL and Catalysis

Catalysis lies at the core of efficiently and effectively using our current energy and chemical resources, developing alternatives, and reducing environmental impacts.

Research activities at PNNL's Institute for Integrated Catalysis and affiliated efforts contribute to the global chemical and energy industries by advancing the ability to control chemical transformations and chemical-electrical energy conversions.

PNNL also conducts applied catalysis research with academic institutions, research organizations, and private industry around the world.

