

1999 Board of Trustees' Award for Outstanding Research and Creative Scholarship Recipient

Professor William R. Moser

Since coming to WPI in 1981, Professor William R. Moser of the Chemical Engineering Department has established an impressive scientific record in the catalytic sciences. His innovative accomplishments include discoveries in heterogeneous catalysis, homogeneous catalysis, spectroscopy and materials engineering. His prolific research productivity of peer-reviewed publications and books on catalysis has earned him an international reputation as a leader in his field.



Professor Moser and his students are widely recognized for inventing a number of catalytic processes and instruments. His group has developed in situ spectroscopic measurements that allow catalytic processes to be monitored under actual commercial conditions. These techniques have provided important insights into the reaction mechanisms of several commercial catalytic processes and have significantly advanced the development of catalysis science.

Professor Moser's research in heterogeneous catalysis has led to the development of new synthetic methods and catalytic materials. He has discovered a number of novel processes for synthesizing nanostructured materials that can be used to produce catalysts, ceramics, and superconductors. Professor Moser's research in zeolite synthesis has resulted in novel metal-loaded zeolites with interesting and desirable catalytic properties. He has also been involved in the development of catalytic membranes that can be used to selectively control chemical processes. This research has been funded by a host of government agencies and industrial concerns.

Professor Moser's research efforts have led to over 80 publications and patents, as well as six edited books in the catalytic and material sciences. His contributions are widely referenced in the catalytic and materials literature, and he has been a prominent figure in the professional societies in his field. In his career at WPI, Professor Moser has involved numerous undergraduate, graduate, and post-doctoral students in a wide variety of research topics.

In recognition of his many significant contributions to the field of catalysis science, it is with pride that William R. Moser is named recipient of the 1999 Board of Trustees' Award for Outstanding Research and Creative Scholarship. Attested to this day, 20 April 1999, by the WPI Committee on Outstanding Research and Creative Scholarship.

