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Catalysis Today 53 (1999) 517

CATALYSIS TODAY

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Preface

This issue, Environmental Catalysis: Emission Control, is one of the four issues that consists of papers presented at the 2nd World Congress of Environmental Catalysis, co-sponsored by AIChE, at Miami, Florida, in November 1998. The Congress focused on catalysis for environmental applications. It was organized by John Armor, of Air Products, Umit Ozkan, of Ohio State University, and Ron Heck, from Engelhard.

Research topics presented in the issue include six papers on emissions of SO_x/NO_x, and VOCs from stationary sources; eight on soot and NO_x emissions from automobile and diesel engines; and eight papers on emission from stoves and N_2O/ozone emissions from various sources. Although SO_x and NO_x emissions have been the primary target of environmental regulation during the past decades, and will continue to be the focus of research in the years to come, N_2O and soot emission problem will play an increasing role in the regulations of the near future.

Many exhaust gases require an integrated process to meet the more stringent regulations, because they contain multiple pollutants and are emitted under wide range conditions. Some of the papers reported here deal with the very fundamental aspects of processes for pollutant removal, and some have approaches to solve emission problems under real-operation conditions. We trust this issue will help the catalysis community to advance the knowledge of emission control, and to develop realistic solutions for a wide range emission problems.

We appreciate the efforts from both reviewers and authors that ensure the technical clarity and quality of the papers. We trust you will enjoy reading the issue and find the papers informative to tackle environmental problems with catalysis technology.

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PII: S0920-5861(99)00138-8