



## Preface

*Challenges for Changing Catalysis in Asia* – selected papers from The 13th Asia Pacific Confederation of Chemical Engineering Congress

The 13th Asia Pacific Confederation of Chemical Engineering Congress (APCChE 2010) was held in Taipei, Taiwan on October 5–8, 2010, which was organized by the Institute of Chemical Engineers, Chinese Taipei, and Asia Pacific Confederation of Chemical Engineering. Professor Hsiao-Ping Huang and Dr. Jonq-Min Liu were co-chairs of APCChE 2010. This congress aims to enhance communication among researchers and practitioners from Asian countries working in the area of Chemical Engineering. The APCChE has been held every two years in many Asia countries included China, Japan, Korea, Singapore, Australia for the past 13 years.

Asia countries, especially near Pacific Rim, are booming in economy so that the research funding also increases significantly in recent years. Their activity on academic research grows much faster than any other areas in the world. We believe these papers show a wide prospective research of catalysis in this area. They present on the actual challenges of the environmental, renewable fuels, nano-material for catalysis and chemicals production.

There are 38 invited and oral papers, and more than 70 poster papers in the section of catalysis and reaction engineering of APCChE 2010. A total number of 34 full-length manuscripts were received for evaluation. These papers were contributed from 9 countries in Asia, included Taiwan, China, Japan, Korea, Singapore, Thailand, Philippine, Indonesia and Australia. We conducted peer review processes of 2–3 reviewers that guaranteed the high level of the papers. A total number of 21 outstanding research papers were selected for publication in Catalysis Today based upon high

quality criteria. The subjects of selective papers cover renewable energy, biomass conversion, photocatalysis, hydrogen production, environmental remediation, catalyst characterization, mesoporous materials for catalysis and industrial chemical production.

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