

## PREFACE

The 8th International Symposium on Nanocomposites & Nanoporous Materials 2007, ISNNM8 was held in Jeju, Korea, from 22<sup>nd</sup> to 24<sup>th</sup> February 2007. Unlike previous series of nanocomposite materials symposiums, the Symposium is a joint meeting together with nanocomposites, nanoporous materials and environment-friendly material research program.

Approximately 200 participants from 5 countries attended the symposium and 164 papers were presented; 12 plenary lectures from Poland, India and Russia and 15 oral presentations as well as 137 poster presentations. After the reviewing process, 36 papers were accepted for publication in this special volume of Solid State Phenomena. The strong international participation and high quality of presentations is an indication of the interest in the field of nanocomposite, nano-catalyst, ultrafine polymers, nano-adsorption, nano-characterization etc., in fundamental research and applied engineering. All main aspects of these materials would be covered, including synthesis, mechanism, microstructures, properties and applications.

The symposium also provides the latest research results and a state-of-the-art overview of technology in the exciting and rapidly evolving field of nanomaterials. In the first day of the Symposium, lots of papers in the field of nano structured materials, synthesis of nanocomposites, mechanical milling were mainly presented. In the second day, invited lectures from India, Russia, Poland were actively proceed based on nanocomposite coating, nanocomposite photocatalyst, photodynamic therapy, carbon nanotube etc. In the last day, a lot of oral presentations were made progress on the subject of nano-catalyst, synthesis of nanopowder and environmentally friendly materials.

Above all, in the second day of the Symposium, SU-IL PYUN's Workshop on Progress in Materials and Corrosion was also held. This workshop was dedicated to Professor Su-II Pyun on the occasion of his retirement from Korea Advanced Institute of Science and Technology (KAIST). He pioneered remarkable advances in corrosion and interfacial electrochemistry at KAIST on the highest intellectual and emotional levels for 31 years. Up to now he has devoted his whole life to the fundamental research works, and recently continues his thorough investigation in the areas of interfacial electrochemistry of carbon and transition metal oxide electrodes based on the fractal theory and corrosion of metals using electrochemical noise analysis. This workshop covered the fundamentals of materials and corrosion, and their applications into practices investigated by himself and his disciples who are actively working at the university, national institute, industry and government in the areas of materials science and engineering, especially, corrosion and interfacial electrochemistry.

We would like to express our sincere thanks to all the colleagues which contributed to the success of ISNNM8 2007; the members of the ISNNM Steering Committee, session chairs, invited speakers and all the participants. Furthermore we would like to appreciate the Local Organizing Committee and the invaluable administrative support of High Performance Nanocomposites Program (KAERI), Nano Center for Fine Chemicals Fusion Technology (Inha University), Research Center for Nano Catalysis & Environment-friendly Material Research Center (KRICT) and The Korean Powder Metallurgy Institute, before and during the Symposium. Finally, we would like to acknowledge the financial support of many industrial companies and the following Korean government agencies; Ministry of Commerce, Industry and Energy (MOCIE). Without their support, the Symposium would have been less successful.

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