

Preface

The 4th International Conference on Applied Engineering, Materials and Mechanics (4th ICAEMM 2019) was taken place in Jeju Island, South Korea, during April 19-21, 2019.

This conference brought together leaders from industry and academia to exchange and share their experiences, present research results, explore collaborations and to spark new ideas, with the aim of developing new projects and exploiting new technology in the field of applied materials and advanced materials processing technologies.

The committee of ICAEMM 2019 expresses their sincere thanks to all authors for their high-quality research papers and careful presentations. All reviewers are also thanked for their careful comments and advices. Thanks are finally given to Trans Tech Publication as well for producing this volume.

The Organizing Committee of ICAEMM 2019

Committee Chair

Prof. Jongwan Hu Incheon National University
Incheon Disaster Prevention Research Center

Committees

Organizer

Prof. Jongwan Hu Incheon National University, Department of Civil and Environmental Engineering
Incheon Disaster Prevention Research Center

Secretary

Hongki Son Incheon Disaster Prevention Research Center

Associate Editors

Prof. Mosbeh Kaloop Incheon National University
Prof. Jungkyu Ahn Incheon National University

Technical Committee

Prof. Sungwan Kim Incheon National University

Sponsors

Incheon Disaster Prevention Research Center (IDPRC)



Recently, various efforts to prevent and prepare are vitally needed for prevention of Disasters and calamities. So we understand the necessity for technology of disaster and we built up the Incheon Disaster Prevention Research Center (IDPRC) in Incheon National University (INU) in 1997.

Accordingly Incheon Disaster Prevention Research Center (IDPRC) in Incheon National University has progressed of research on the prevention of disasters and calamities through the various seminars, conference and lectures. These research could be conducted cooperation with Incheon National University (INU) in various fields structure, soil, hydraulic and environment.

Incheon Disaster Prevention Research Center (IDPRC) will try to be a leader in the disaster of industry through the various research activities and global conference.

Incheon National University established a global campus by integrating two city council funded colleges into one in March 2010 and became a national university operated by the legal entity. With the start of attracting the branch of Lawrence Berkeley Research Center that is a world famous US national policy research center for education and research, Incheon National University will attract St. Petersburg University in Russia, Polymers University in Britain, and Kent University in Belgium and other foreign universities and research centers. These efforts will make INU spring to a world-wide competitive university.

As a local development leading university, Incheon National University established INU VISON 2020 and improved its competition actively through investment in selection and concentration. In compliance with the geographic feature and areal specialty, it will concentrate on the international trade, goods distribution, applied technology convergence, BNT-based life science, urban science and the sinology- based local humanity fields.