
Editorial

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Biographical notes: Leszek A. Dobrzański is Director of the Institute of Engineering Materials and Biomaterials of the SUT Gliwice, Poland, President of World Academy of Materials and Manufacturing Engineering, a Foreign Fellow of Ukrainian and Slovak Academies of Engineering Sciences, an Editor-in-Chief of three Worldwide Journals, a Visiting Professor, an Invited Speaker, a Chairman and a Member of the Programme Committees of the serial Scientific Conferences in numerous world countries. He is an author or a coauthor of ca.1000 publications, ca.40 patents, ca.40 scientific books. He is also a laureate of numerous scientific distinctions, including William Johnson and Albert Schweitzer Gold Medals.

The efforts of the World Academy of Materials and Manufacturing Engineering and the Association of Computational Materials Science and Surface Engineering led to the creation of the new *International Journal of Computational Materials Science and Surface Engineering* on 1 January 2007. A function of the Editor-in-Chief of that Journal was entrusted to me. Both mentioned scientific organisations took the scientific patronage under the Journal. I would like to thank especially Prof. Mark J. Jackson from Purdue University in West Lafayette (USA) for the special activeness in the realisation of that initiative and also to Dr. Mohamed A. Dorgham from the International Centre for Technology and Management (UK) for making a decision about the foundation of that Journal. I was ensured to be helped in editing the Journal by a few outstanding worldwide known scientists as Deputies Editor-in-Chief including Prof. Mark J. Jackson (USA), Prof. Yong-Taek Im (Korea), Prof. Ivars Knets (Latvia), Prof. Maria H. Robert (Brazil), Prof. Ming-Yen Tan (Singapore) and Prof. Božo Smoljan (Croatia). Moreover, a few young scientific staff from the Silesian University of Technology in Gliwice, Poland undertook duties as Associate Editors, including Dr. Miroslaw Bonek, Dr. Malgorzata Drak, Dr. Klaudiusz Golombek, Ms. Marzena Kraszewska MA, Dr. Daniel Pakula and Dr. Wojciech Sitek. In the makeup of the Editorial Board 41 outstanding professors from many countries of all continents are included.

The newly created International Journal is refereed and published bimonthly, providing an international forum and an authoritative source of information in the field of computational materials science and surface engineering. It publishes primarily invited

original high quality and review papers and features occasionally, progress reports and addition, short communications, technical reports, case studies, management reports, conference reports, book reviews, essays, notes, commentaries, news and comments. The Journal also publishes periodically Special Issues devoted to developments in important topics including selected scientific conference proceedings. The issues addressed by the Journal involve solutions of real-life problems, in which it is necessary to apply computational materials science and computational surface engineering methodologies for achieving effective results. The scope of the Journal includes original scientific papers which describe computer-aided methods of modelling, simulation and prediction for designing new engineering materials and the technological processes of the manufacturing, processing and forming of their structure and properties in the whole volume and their surface and also the description of phenomena and phase transformations appearing in those materials. The Journal encourages submission of new fundamental and interdisciplinary contributions on materials science and engineering, surface engineering and computer-aided methods of modelling, simulation and prediction.

The aims of this International Journal is to bring a unique medium of communication for multidisciplinary approaches, either empirical or theoretical, to the study of engineering materials (metallic alloys, tool materials, superplastic materials, ceramics and glasses, composites, amorphous materials, nanomaterials, biomaterials, multifunctional and smart materials and engineering polymers) and their processing technologies and surface engineering. The objectives of the Journal are to establish an effective channel of communication between academic and research institutions and persons concerned with industrial research supported by practical application. It also aims at promoting and coordinating developments in the field of computational materials science and computational surface engineering by publishing original scientific papers which describe computer-aided methods of modelling, simulation and prediction for designing new engineering materials and the technological processes of the manufacturing, processing and forming of their properties in the whole volume and their surface and also for the description of phenomena and phase transformations appearing in those materials are used for solving tasks in materials and surface engineering, industrial management and administration and technical education.

The international dimension is emphasised in order to meet the latest needs of accelerating theoretical knowledge and practical verification of new engineering materials, processing and surface technologies and products. The emphasis of the reported work is on new and original research and technological developments rather than reports on the application of existing technologies to different types of engineering materials and their processing technologies. The Journal is committed to the highest scientific standards, judging contributions on their contents and scientific value alone, rather than on whether methods, questions, style or language conform to the professional and academic and other customs in any particular field from nanoscopic (e.g. nanoscience and nanotechnology) to macroscopic scales.

The Journal is intended for a broad audience such as research professionals, scientists, academics, engineers, policy-makers, managers and students in the field of materials science and engineering, materials processing technologies and surface engineering and research of the structure and chemical composition of engineering materials and application of computer-aided methods of modelling, simulation and prediction in this area. Handing the first inaugural volume of the *International Journal of*

Computational Materials Science and Surface Engineering to the Readers I am convinced that it will gain its Readers and Authors soon. Because, without them no journal can exist. I count on their help and activeness and am convinced that the Journal will serve science and the scientific society.