

Preface

We are very pleased to introduce the special volume containing the papers presented at the 60th International Scientific Conference of Riga Technical University (RTU) Section of Materials Science and Applied Chemistry - MSAC 2019, held in Riga, Latvia, 24th of October, 2019.

The conference MSAC 2019 provided discussion forum for researchers and practitioners from both academia and industry. Participants presented their latest scientific achievements, ideas and their applications in materials science, chemistry and physics. MSAC 2019 brought together leading scientists, researchers and doctoral students from six different countries with 25 oral presentations and 66 poster session presentations.

The conference was opened by historical discourse entitled “About the reception of the “Walden”-inversion” which was presented by Dr. Gisela Boeck (Germany) - Paul Walden Prize Winner 2019. Materials science section (plenary speaker Christian Kehrberg, Germany) was devoted to technologies of polymers, composite materials and inorganic oxides. Biomaterials section was inaugurated by plenary speaker Dr. Eiva Bernotiene (Lithuania), who presented the needs and challenges to reproduce mechanical properties of articular cartilage. Organic chemistry section (plenary speaker Prof. Byron W. Purse, USA) was devoted mainly to fluorescent organic compounds and their applications as materials and biosensors. Topics dealing with environmental technologies, biomass and bioeconomy were discussed in a separate section lead by Prof. Michael Nelles (Germany) in the role of plenary speaker. Additionally, a two-part seminar “Frontiers in biotechnologies” was organized in parallel sessions.

We would like to express our sincere thanks to all authors who have submitted their conference papers to the special volume of MSAC 2019 and to all reviewers who contributed their time and expertise and peer-reviewed the manuscripts. Last but not least, special thanks go to the members of organizing committee for making MSAC 2019 conference an enjoyable event!

In the name of Editors of MSAC 2019 Special Volume



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