

Preface

Powdered substances play an important role in a wide sphere of human activities; they are used in or they are produced within many industrial processes from the food industry through the production of medicines, binders, pigments up to the production of materials. Neither it is possible to quantify the set of products that we use either in powdered state or in compact form. In preparation and characterization of the powdered system, it is important to know the particularities of the powder properties represented by their aggregate and chemical instability. The first conference in the year 1996 was in a spirit of the adequacy assessment of current experimental methods used for the characterization of finely dispersed substances prepared by chemical and mechano-chemical methods under the guarantee of prof. Dr. Klára Tkáčová, DrSc. The following conferences have already seen qualitative and quantitative changes by expanding its theme, initially dedicated to the methods of preparation and characterization of particulates. In order to the mutual information and the presentation of scientific knowledge and practical experience in the field of particulates, the topics were extended to study relations between structure and reactivity of ultrafine systems in the laboratory and industrial scale, further the issue of solid dispersions occurring in the environment and for the occurrence in the air as pollutants and in terms of characterization of the properties of the solid waste in order to select the appropriate method of disposing and material recovery. With the introduction of green and cleaning technologies of gaseous air pollutants and wastewater we increasingly meet with the generation of large amounts of solid waste. They have become a key problem of conversion of liquid and gaseous waste.

Nowadays, the conference provides a platform for the exchange of knowledge and expertise on particulate solids, their characterization and application in various fields. The Conference aims to represent a multi-disciplinary forum for exchanging ideas, presenting the latest developments and trends, proposing new solutions and promoting international collaborations through meeting the experts from both academic and industrial areas.

SCIENTIFIC COMMITTEE

prof. Dr. Nadezda Stevulova	Technical University of Kosice, Institute of Environmental Engineering, Slovakia
prof. Ing. Jiri Zegzulka	Technical University of Ostrava, Faculty of Mechanical Engineering, Institute of Transport, Czech Republic
prof. Dr. Massimo Poletto	University of Salerno, Department of Industrial Engineering, Italy
prof. Dr. Marian Peciar	Slovak University of Technology in Bratislava, Institute of Chemical and Hydraulic Machines and Equipment, Slovakia
prof. Dr. Baltakys Kestutis	Kaunas University of Technology, Faculty of Chemical Technology, Department of Silicate Technology, Lithuania
prof. Dr. Vladimir Sepelak, DrSc.	Karlsruhe Institute of Technology, Institute of Nanotechnology, Germany
prof. Dr. Fumio Saito	Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan
prof. Dr. Jozsef Faitli	University of Miskolc, Institute of Raw Material Preparation and Environmental Processing, Hungary
Dr. Alain Chamayou	French National Centre for Scientific Research, Centre RAPSODEE, France
prof. Dr. Jan Tomas	Slovak University of Agriculture in Nitra, Faculty of Biotechnology and Food Sciences, Slovakia
prof. Dr. Karol Jesenak	Comenius University of Bratislava, Faculty of Natural Sciences, Slovakia
prof. Dr. Petra Sulcova	University of Pardubice, Department of Inorganic Technology, Czech Republic
prof. Magnus Evertsson	Chalmers University of Technology, Sweden
prof.Dr. Magdalena Balintova	Technical University of Kosice, Faculty of Civil Engineering, Slovakia
prof. Dr. Jaroslav Briancin	Institute of Geotechnics, Slovak Academy of Science, Slovakia
assoc. prof. Dr. Tomas Sverak	Brno University of Technology, Institute of Material Science, Czech Republic
assoc. prof. Dr. Taras Markiv	Lviv Polytechnic National University, Ukraine
assoc. prof. Dr. Vojtech Vaclavik	Technical University of Ostrava, Faculty of Mining and Geology, Czech Republic
prof. Dr. Adriana Estoková	Technical University of Kosice, Institute of Environmental Engineering, Slovakia
assoc. prof. Dr. Alena Sicakova	Technical University of Kosice, Institute of Environmental Engineering, Slovakia
Dr. Matej Spak	fy BetónRacio, s.r.o., Slovakia
Dr. Július Strigac	fy Považská cementáreň, a.s., Slovakia

ORGANIZING COMMITTEE

prof. Dr. Adriana Estokova

Technical University of Kosice
Faculty of Civil Engineering
Institute of Environmental Engineering
Department of Material Engineering

Dr. Eva Singovszka

Technical University of Kosice
Faculty of Civil Engineering
Institute of Environmental Engineering
Department of Environmental Engineering

Dr. Julia Cigasova

Technical University of Kosice
Faculty of Civil Engineering
Institute of Environmental Engineering
Department of Material Engineering

Eng. Stefan Demcak

Technical University of Kosice
Faculty of Civil Engineering
Institute of Environmental Engineering
Department of Environmental Engineering

MAIN EDITORS

prof. Dr. Adriana Estokova

Technical University of Kosice, Faculty of Civil Engineering, Institute of Environmental Engineering, Department of Material Engineering
Vysokoskolska 4, 042 00 Kosice, Slovakia
e-mail: adriana.estokova@tuke.sk

prof. Dr. Nadezda Stevulova

Technical University of Kosice, Faculty of Civil Engineering, Institute of Environmental Engineering, Department of Material Engineering
Vysokoskolska 4, 042 00 Kosice, Slovakia
e-mail: nadezda.stevulova@tuke.sk

OTHER EDITORS

prof. Dr. Jiří Zegzulka

Technical University of Ostrava, Faculty of Mechanical Engineering, Institute of Transport 17. listopadu 15, Ostrava – Poruba, Czech Republic
e-mail: jiri.zegzulka@vsb.cz

prof. Dr. Baltakys Kestutis

Kaunas University of Technology, Faculty of Chemical Technology, Department of Silicate Technology
Radvilėnų pl. 19, 50254, Kaunas, Lithuania
e-mail: kestutis.baltakys@ktu.lt

prof. Dr. Jozsef Faitli
University of Miskolc, Institute of Raw Material Preparation and Environmental Processing
3515 Miskolc, Egyetemváros, Hungary
e-mail: ejtfajtj@uni-miskolc.hu

prof. Dr. Alain Chamayou
French National Centre for Scientific Research, Centre RAPSODEE
Campus Jarlard, 81013 Albi, CT Cédex 09, France
e-mail: alain.chamayou@mines-albi.fr

LIST OF REVIEWERS

Balintova	Magdalena
Balkova	Milada
Barauskas	Irmantas
Briancin	Jaroslav
Ďurčanská	Daniela
Eštoková	Adriana
Faitli	Jozsef
Fedorockova	Alena
Geffert	Anton
Geffertova	Jarmila
Hanculak	Jozef
Harbulakova	Vlasta
Hudak	Alexander
Chamayou	Alain
Junak	Jozef
Kacik	Frantisek
Kanuchova	Maria
Kozáková	Lubica
Ladomersky	Juraj
Luptakova	Alena
Melichová	Zuzana
Ondova	Marcela
Palascakova	Lenka
Paulikova	Alena
Plesingerova	Beatrice
Prascakova	Maria
Raschman	Pavel
Samešová	Dagmar
Selecka	Iveta
Sepelak	Vladimir
Siauciunas	Raimundas
Sicakova	Alena
Singovszka	Eva
Spak	Matej
Stevulova	Nadezda
Strigáč	Július
Struhárová	Alena
Sucik	Gabriel
Svěrák	Tomáš
Šāble	Inese
Šestinová	Ol'ga
Šulcová	Petra
Terpáková	Eva
Václavík	Vojtěch
Vertaľ	Marián
Vilčeková	Silvia
Zegzulka	Jiří