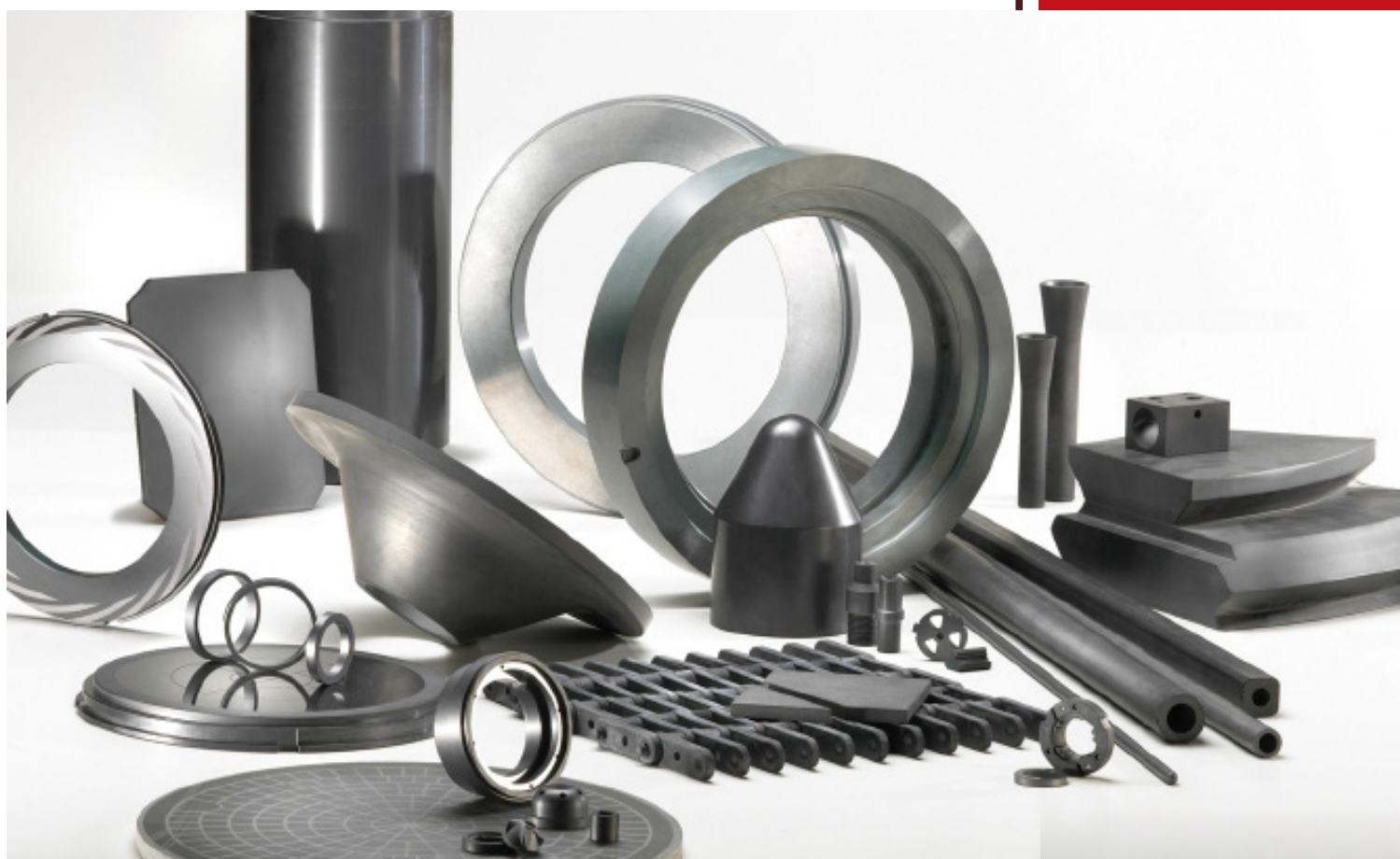


Scientific Program

International Conference and Expo on **Ceramics**

Chicago, USA August 17-18, 2015

338th OMICS International Conference



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Email: ceramics@conferenceseries.net

10:00-11:00 Registrations

Room - 4



10:30-10:35

Opening Ceremony

Keynote Forum

10:35-10:40 Introduction

10:40-11:15 **Smart advanced ceramic materials for energy and environmental technology**
Alexander Michaelis, Fraunhofer Institute of Ceramic Technologies & Systems, Germany

Coffee Break 11:15-11:30

Group Photo

Track 5: Designing and Engineering of Ceramic Composites

Track 6: Ceramics and Systems for Energy and Environment

Track 7: Surface Engineering and Ceramic Coating

Track 8: Innovative Processing and Synthesis

Session Chair: Marius Stan, Argonne National Laboratory, USA

Session Co-Chair: Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel

Session Introduction

11:30-12:00	New Comprehensive Defect-Crystal-Chemistry Approach to Defect-Fluorite Oxides; ($M_{1-y}Ln_y$)O_{2-y/2} (M^{4+} = Zr, Hf, Ce and Th etc, Ln^{3+} = lanthanide) Akio Nakamura, Japan Atomic Energy Agency, Japan
12:00-12:30	Advancements in Ceramics Hiroyuki Shimada, Toshio Suzuki, Koichi Hamamoto, National Institute of Advanced Industrial Science and Technology
12:30-13:00	Advanced ceramics for energy systems Alexander Michaelis, Fraunhofer Institute of Ceramic Technologies and Systems, Germany
Lunch Break 13:00-13:45	
13:45-14:15	Recent research on image crystals: Discovery of shape-controllable cavities surrounded by facets in ceramics Hiroyuki Serizawa, Japan Atomic Energy Agency, Japan
14:15-14:45	The design and synthesis of silica-based catalytic microreactors Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel
14:45-15:15	Electrospun NiO, ZnO and composite NiO-ZnO nanofibers: Photocatalytic degradation of dairy effluent Muzafar A Kanjwal, Technical University of Denmark, Denmark
15:15-15:45	Nano-ceramics for energy storage applications Ram Gupta, Pittsburg State University, USA
15:45-16:15	Laser surface modification of Ti alloys for biomedical applications Monireh Ganjali, Materials and Energy Research Center (MERC), Iran
Coffee Break 16:15-16:45	
16:45-17:15	TiC-X nanocomposite coating in-situ by laser cladding process without powder nozzle Mansoureh Ganjali, Research Institute of Noure Zoha Materials Engineering, Iran

Day 2

August 18, 2015

Room - 4

Keynote Forum

10:30 - 11:05 Introduction

10:30 - 11:05 **Ceramics world: New fractal frontiers**
Vojislav V Mitic, University of Nis, Serbia

Coffee Break 11:05-11:20

Track 1: Fundamentals from Theory to Practice

Track 2: Electro-Magnetic and Optical Ceramics and Devices

Track 3: Bioceramics and Health

Track 4: Ceramics Under Severe Environments and Refractories

Session Chair: Raed Abu-Reziq, The Hebrew University of Jerusalem, Israel

Session Introduction

11:20-11:50 **Chemical and Heat Transport in Uranium Oxide**

Marius Stan, Argonne National Laboratory, USA

11:50-12:20 **Preparation of some metal oxides nanoparticles using chitosan as template**

Magdy Y. Abdelaal, King Abdulaziz University, Saudi Arabia

12:20-12:50 **Aerogel-based bioceramic in dentistry**

Csaba Hegedűs, University of Debrecen, Hungary

12:50-13:20 **Modification of Mg-doped fluoridated hydroxyapatite nanoparticles by amino acids as a drug delivering nanobio-polymer composite for tissue engineering**

Zeinab Fereshteh, Isfahan University of Technology

Lunch Break 13:20-14:00

Poster Sessions

14:00-14:30 **Graphene-Reinforced Calcium Phosphate Cements for Bone Tissue Engineering**

Jong Hoon Chung, Seoul National University, Republic of Korea

14:30-15:00 **Tribological and mechanical behavior of WC-Ni hardfacing using Ni-Cr as interlayer**

Cheniti Billel, University of Science and Technology Houarie Boumadiane (USTHB), Algeria

Award Ceremony

Bookmark your dates



2nd International Conference and Expo on

Ceramics & Composite Materials

June 27-29, 2016 Berlin, Germany

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