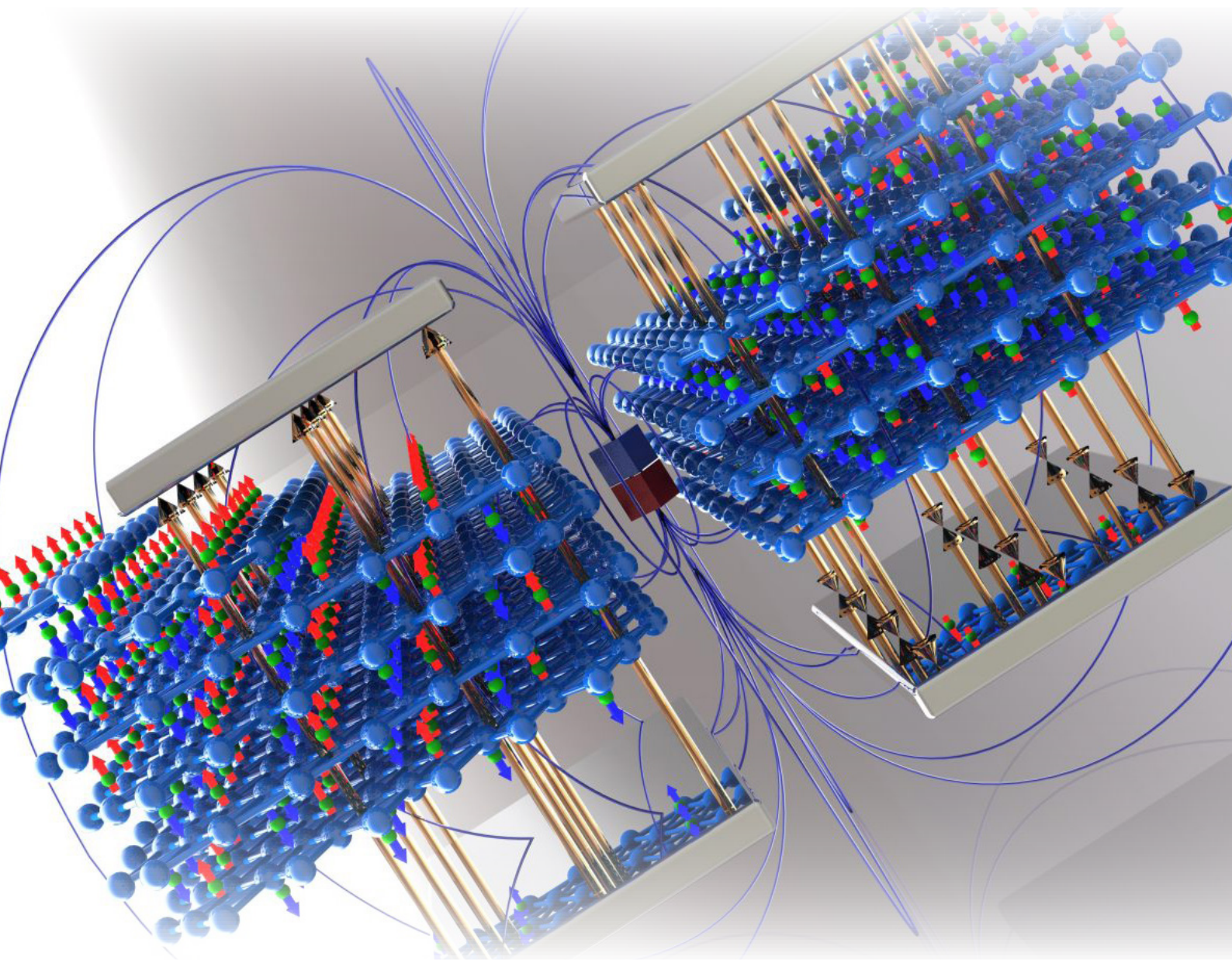


Scientific Program

2nd International Conference and Expo on

Ceramics & Composite Materials

July 25-26, 2016 Berlin, Germany



Hosting Organization: Conference Series LLC

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Scientific Program

Day 1 July 25, 2016

08:30-09:00 Registrations

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09:00-09:25

Opening Ceremony

Keynote Forum

09:25-09:30 Introduction

09:30-10:00 **Title: Mechanism for dielectric loss and temperature dependence of dielectric constant (ϵ) in modern microwave materials**

Nathan Newman, Arizona State University, USA

10:00-10:30 **Title: Innovation in nanostructured ceramic coatings for structural, functional and biomedical applications**

Kwang Leong Choy, University College London, United Kingdom

Coffee Break 10:30-10:45 @ Main Lobby

Sessions:

- Porous Ceramics
- Sintering
- Bioceramics

Session Introduction

Session Chair: Lucie Bacakova, Czech Academy of Sciences, Czech Republic

10:45-11:10 **Title: Development, characterization and biological evaluation of novel glass-like coatings for cardiovascular implant application**

Martin Amlung, INM-Leibniz-Institute for New Materials, Germany

11:10-11:35 **Title: An overview of ceramics in dentistry: Basic properties and clinical applications**

Csaba Hegedus, University of Debrecen, Hungary

11:35-12:00 **Title: Flash spark plasma sintering of advanced materials**

Salvatore Grasso, Queen Mary University of London, UK

12:00-12:25 **Title: Biomedical applications of zeolites- A review**

Lucie Bacakova, Czech Academy of Sciences, Czech Republic

12:25-12:50 **Title: On calibration of micro-crack model of thermally induced cracks through inverse analysis**

Vladimir Buljak, University of Belgrade, Serbia

Group Photo

Lunch 12:50-13:20 @ Element I+II Restaurant

13:20-13:45 **Title: Porous composite materials $ZrO_2(Mg)$ -MgO for biomedical applications**

Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia

13:45-14:10 **Title: Characterisation of pellets and beams from barium titanate perovskite granulates**

Mojtaba Biglar, Rzeszow University of Technology, Poland

14:10-15:10 **Workshop on Nanoceramics**

Ajay Kumar Mishra, University of South Africa, South Africa

Sessions:

- Advanced Ceramic Materials
- Nanostructured Ceramics
- Ceramics Applications

Session Introduction

Session Chair: Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia

15:10-15:35 **Title: Electronegative guests in $CoSb_3$**

Jihui Yang, University of Washington, USA

Coffee Break 15:35-15:50 @ Main Lobby

15:50-16:15 **Title: Silicon carbide: A versatile nano-material**

Ajay Kumar Mishra, University of South Africa, South Africa

- 16:15-16:40** Title: **A comparative study of copper-cermet anode material synthesized by different technique**
Shabana P S Shaikh, SBP Pune University, India
- 16:40-17:05** Title: **Development of cow bone particulate reinforced epoxy composites for biomedical applications**
Oladele I O, Federal University of Technology, Nigeria
- 17:05-17:30** Title: **Complex oxides with negative thermal expansion for CMC and MMC with invar effect**
Sergei Kulkov, Institute of Strength Physics and Materials Science SB RAS, Russia
- 17:30-17:55** Title: **Towards multielement core-shell ceramics in the Zr/Si/C system**
Romain Lucas, University of Limoges, France
- 17:55-18:05** Title: **Structural, dielectric, piezoelectric and impedance study of a new lead free ferroelectric ceramics (Ba,M)(Ti,M')O₃, M=Ca;Sr and M'=Sn;Zr**
H Msouni, University of Cadi Ayyad, Morocco
- 18:05-18:30** Title: **In-situ electron paramagnetic resonance studies of performance-degrading defects in superconducting microwave resonators**
Nathan Newman, Arizona State University, USA

Day 2 July 26, 2016

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Keynote Forum

- 09:35-10:05** Title: **New X-ray developments to characterize ceramic materials**
Alex Dommann, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
- 10:05-10:35** Title: **Sustainable energy, fractals and micro-nano sizes**
Vojislav Mitić, University of Nis, Serbia
- 10:35-11:05** Title: **Magnesium/Hydroxyapatite nanocomposites for biomedical applications**
Yan Huang, Brunel University, UK

Sessions:

- Ceramics
- Ceramics & Composites
- Advanced Materials and Technologies

Session Introduction

Session Chair: Frédéric Aguesse, CIC Energigune, Spain

- 11:05-11:30** Title: **No more guessing: Measure size and shape simultaneously by combined laser diffraction and dynamic image analysis**
Thomas D Benen, Microtrac GmbH, Germany

Coffee Break 11:30-11:45 @ Main Lobby

- 11:45-12:10** Title: **Phase contrast and x-ray dark field imaging: new possibilities for analyzing tooth reconstruction**
Alex Dommann, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
- 12:10-12:35** Title: **Synthesis and characterization of Al-Si₃N₄ nanocomposites processed by microwave sintering process**
R A Shakoor, Qatar University, Qatar
- 12:35-13:00** Title: **Exploring the limitations of garnet ceramic electrolytes for all-solid-state Li batteries**
Frédéric Aguesse, CIC Energigune, Spain
- 13:00-13:25** Title: **Innovative carbon-free precipitation hardened tool steel composites**
Saied Elghazaly, Central Metallurgical R&D Institute, Egypt

Sessions:

- Composite Ceramic Materials
- Ceramic Coatings

Session Introduction

Session Chair: Hans Juergen Seifert, Karlsruhe Institute of Technology, Germany

- 13:25-13:50** Title: **Optical and mechanical properties of innovative TiO₂/SiO₂ thinfilms**
A Poulon-Quintin, University of Bordeaux, France
- 13:50-14:15** Title: **Synthesis of novel composite based on carbon nanotube for electrochemical application**
Zih-Jyun Chen, Tunghai University, Taiwan

Lunch 14:15-14:45 @ Element I+II Restaurant

- 14:45-15:10** Title: **Dissimilar welding of high shear strength Ti₂SnC/Cu/Ti₆Al₄V joint at low temperature**
Wenbo Yu, Tsinghua University School of Material Science and Engineering, China

15:10-15:35 **Title: Ceramic coatings fabricated by micro-arc oxidation on ZK60 magnesium alloys under step current mode**
Sheng Lu, Jiangsu University of Science and Technology, China

Coffee Break and Poster Presentations from 15:35-16:05 @ Main Lobby

- CCM 001 **Title: 3D additive manufacturing of bioceramic applied to the bone reconstruction using reverse thermo-responsive hydrogel technique**
Chih-Kuang Wang, Kaohsiung Medical University, Taiwan
- CCM 002 **Title: All-solid state Li-ion batteries with ceramic electrolyte**
Vasily Tarnopolskiy, CEA Grenoble (LITEN), France
- CCM 003 **Title: The absorption and radiation transitions of Mn²⁺ ions in the polyvinyl pyrrolidone capped ZnS: Mn nanoparticles**
Tran Minh Thi, Hanoi National University of Education, Vietnam
- CCM 004 **Title: Evaluation of mechanical properties and cell response of glass infiltrated zirconia after sandblasting**
Sang-Won Park, Chonnam National University, Republic of Korea
- CCM 005 **Title: Mechanical alloying, sintering and characterization of Al-10 wt% Al₂O₃ nanocomposite**
Mahmoud Nasr El-Din Mohammed, National Research Centre, Egypt
- CCM 006 **Title: Synthesis of miserite or wollastonite glass-ceramics for dental applications**
Jae Chul Bang, Soonchunhyang University, Korea
- CCM 007 **Title: Peculiarities of vibration assisted surface finishing methods for brittle material surfaces**
Gytautas Balevičius, Kaunas University of Technology, Lithuania
- CCM 008 **Title: Surface Treatment of yttria-stabilized tetragonal zirconia polycrystals with argon plasma-jet: A pilot study**
Emre Seker, Eskisehir Osmangazi University, Turkey
- CCM 009 **Title: Evaluation of surface roughness and adhesion capability of Titanium after argon plasma-jet surface treatment: A pilot study**
Basak Kusacki Seker, Eskisehir Osmangazi University, Turkey
- CCM 010 **Title: Effect of sintering temperature on the microstructure and electrical properties of porous BS-0.64PT piezoceramics**
Jinting Tan, Jiaotong University, China
- CCM 011 **Title: Simultaneous DTA-TGA investigation of thermal behaviour of photovoltaic solar crucible silicon nitride (Si₃N₄) coating material at high temperatures**
Chettat Yassine, CRTSE, Algeria
- CCM 012 **Title: Investigation of structural and optical properties of nickel doped ZnO deposited by MW-CBD method**
Yasemin Caglar, Anadolu University, Turkey
- CCM 013 **Title: Fabrication and characterization of p-Si/n-MgZnO heterojunction diode**
Mujdat Caglar, Anadolu University, Turkey
- CCM 014 **Title: Electrochemical alternative energy microstructure fractal perspectives**
Vojislav Mitić, University of Nis, Serbia
- CCM 015 **Title: Wind energy exploration fractal perspectives**
Vojislav Mitić, University of Nis, Serbia
- CCM 016 **Title: Electrodeposited boron doped ZnO films: Preparation and characterization**
Saliha Ilican, Anadolu University, Turkey
- CCM 017 **Title: Applications of microfluidic chips in functional polymers**
Keng-Shiang Huang, I-Shou University, Taiwan
- 16:05-16:30 **Title: Phase stability and corrosion resistance of SiC and Yttrium-Silicate EBCs on SiC in moist atmosphere**
Hans Juergen Seifert, Karlsruhe Institute of Technology, Germany
- 16:30-16:55 **Title: Effect of Ti₃SiC₂ on friction and wear properties of Cu alloy matrix composite**
Q Zou, Yanshan University, P. R. China
- 16:55-17:20 **Title: Bio-inspired SiCf-reinforced Ti-intermetallic multi-layers composite: Synthesis, microstructure and mechanical properties**
Wenbo Yu, Tsinghua University School of Material Science and Engineering, China
- 17:20-17:45 **Title: Optical properties and crystallization kinetic of tellurite glass-ceramics**
Nehal Elkhoshkhany, Alexandria University, Egypt

Panel Discussion and Certificate Distribution

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June 29-30, 2017 Madrid, Spain

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