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# Scientific Program

5<sup>th</sup> International Conference and Expo on  
**Ceramics and  
Composite Materials**

June 03-04, 2019 | London, UK

**UK: Conference Series LLC Ltd**  
47 Churchfield Road, London, W3 6AY  
Toll Free: +0-800-014-8923

# DAY-1

June 03, 2019

Meeting Hall: **Armstrong**

07:30-08:00 Registrations

*Opening Ceremony* ..... **08:00-08:30**

## KEYNOTE FORUM

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Introduction

- 08:30-09:00** **Title: Glory of piezoelectric perovskites**  
**Kenji Uchino**, The Pennsylvania State University, USA
- 09:00-09:30** **Title: Eutectoids: A new bioceramic materials for bone tissue engineering**  
**P N De Aza**, Miguel Hernández University, Spain
- 09:30-10:00** **Title: Producing nanopowders for functional ceramics by pulsed electron beam evaporation method in vacuum**  
**Sergey Sokovnin**, Institute of Electrophysics, Russia
- 10:00-10:30** **Title: Antiferroelectric shape memory ceramics**  
**Kenji Uchino**, The Pennsylvania State University, USA

## GROUP PHOTO

**Networking & Refreshments 10:30-10:45 @ Foyer**

**Sessions: Ceramic Engineering | Ceramic Compounds: Ceramic Materials**

**Chair: Sergey Sokovnin**, Institute of Electrophysics, Russia

## INTRODUCTION

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- 10:45-11:05** **Title: Ceramics in particle accelerators**  
**Charles Hetzel**, Brookhaven National Laboratory, USA
- 11:05-11:25** **Title: Effects of boron on densification of tantalum carbides and beyond: The core-shell structure**  
**Limeng Liu**, North Minzu University, China
- 11:25-11:45** **Title: The use of 3D printing and gelation casting to fabricate complex ceramic parts**  
**D J Whitefield**, University of the Witwatersrand, South Africa

**Sessions: Electro-magnetic and Optical Ceramics and Devices | Surface Engineering and Ceramic Coatings | Alloys**

**Chair: Slawomir Kaczmarek**, Westpomeranian University of Technology, Poland

- 11:45-12:05** **Title: Influence of nitriding process on magnetic properties of steel ball-like samples**  
**Slawomir M Kaczmarek**, Westpomeranian University of Technology, Poland

**12:05-12:25** **Title: Four types of electrons, each allowing matter to behave in a specific way, according to twin physics**  
Anna Backerra, The Netherlands

**12:25-12:45** **Title: Improving wear performance of multi-layer electroless Ni-based coating using laser heat treatment**  
Oloyede O R, Afe Babalola Univerity, Nigeria

**Lunch Break 12:45-13:15 @ RBG**

**13:15-13:35** **Title: Formation of aluminum-oxide layer on the surface of Fe-Cr-Al fibers**  
Osama M Ibrahim, Kuwait University, Kuwait

**13:35-13:55** **Title: Effect of heat treatment on the morphology and mechanical properties of commercial aluminium 6063 alloy**  
Oloyede O R, Afe Babalola Univerity, Nigeria

**13:55-14:15** **Title: Strontium aluminate based aerogel phosphors for the enhanced afterglow properties**  
Gaganpreet Kaur Behrh, EMPA, ETH, Switzerland

**Sessions: Advanced Materials| Composite Materials**

**Chair: P N De Aza**, Miguel Hernández University, Spain

## INTRODUCTION

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**14:15-14:35** **Title: Piezoelectric composites**  
Kenji Uchino, The Pennsylvania State University, USA

**14:35-14:55** **Title: The oxidation behaviour of a melt infiltrated (MI) SiC/SiC matrix composite (CMC) at high temperature in air**  
Nasrin Al Nasiri, Imperial College London, UK

**14:55-15:15** **Title: Effect of the composition and the micromechanical models on Numerical modeling of functionally graded plates under high velocity impact loads**  
Zemani Kada, Polytechnic military school, Algeria

**Networking & Refreshments 15:15-15:30 @ Foyer**

## YRF

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**15:30-15:45** **Title: PANI-ZnO nanocomposites embedded polyurethane films for antifouling applications**  
Vandana A Mooss, Savitribai Phule Pune University, India

**15:45-16:00** **Title: Development of new generation SiC armour ceramics reinforced with reduced graphene oxide/graphene oxide**  
Burcu Yilmaz, NuroI Technologies Inc., Turkey

## PANEL DISCUSSION

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# DAY-2

June 04, 2019

Meeting Hall: **Armstrong**

## POSTER PRESENTATIONS 11:00–12:30 @ FOYER

**Poster Judge:** Charles Hetzel, Brookhaven National Laboratory, USA

**Title:** Novel polymer-derived ceramic matrix composite fabrication using additive manufacturing for high temperature aerospace application  
Spencer Dansereau, University of Colorado Boulder, USA

**Title:** Using pre-ceramic polymers in the joining of silicon carbide ceramics  
Lewis J Print, University of Strathclyde, UK

**Title:** Influence of galia ( $\text{Ga}_2\text{O}_3$ ) addition on the phase evolution and grain growth behavior of voided yttria stabilized zirconia (YSZ) powder  
Chen Barad, Ben-Gurion University, Israel

**Title:** Preparation of ceramic membranes of nanofiltration by nano-deposition to be used in the purification of water with different contaminants  
Irlanda Grisel-Cruz Reyes, Instituto Politécnico Nacional Unidad Profesional Adolfo López Mateos, Mexico

**Title:** Toughness and dielectric behavior of polycrystalline alumina  
Haddour Lillia, University of Science and Technology Houari Boumediene, Algeria

**Lunch Break 12:30-13:30 @ RBG**

## Awards & Closing Ceremony

### Bookmark your Dates

6<sup>th</sup> International Conference and Expo on

## Ceramics and Composite Materials

June 08-09, 2020 Frankfurt, Germany

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