MATERIALS SCIENCE 2018

International Conference on

Materials Science & Engineering

Advancing The Research & Innovation on Materials Science for The Global Prosperity

Rome, Italy June 25-26, 2018



Venue:
Mercury Rome West, Viale Eroi di Cefalonia, 301, 00128, Rome, Italy

https://www.meetingsint.com/conferences/materialscience

Scientific Program

Day 1: June 25, 2018

09:00 - 09:30 ***Registrations***

09:30 - 10:00 ***Opening Ceremony***
Introduction

Keynote Forum

10:00 - 10:40 ***Title: Challenges for materials science in the 21st century***
Michael Silver, *American Elements, USA*

10:40 - 10:50 ***Group Photo***

10:50 - 11:05 ***Coffee Break***

11:05 - 11:45 ***Title: High-performance, heteroepitaxial, nanolaminate device layers on single-crystal-like, artificial substrates and controlled self-assembly of nanostructures within device layers for wide-ranging electrical and electronic applications***
Amit Goyal, *UB RENEW Institute, USA*

11:45 - 12:25 ***Title: Materials for advanced ultrasupercritical power plants***
Augusto Di Gianfrancesco, *European Collaborative Creep Committee, Italy*

12:25 - 13:25 *Special Session on*
Quantum alphabet of matter language
by ***Eugene Machusky,*** *National Technical University, Ukraine*

13:25 - 14:15 ***Lunch Break***

14:15 - 15:15 *Special Session on*
Thermal Spray research developments and possibilities offered at CPT *by* ***Sergi Dosta,*** *University of Barcelona, Spain*

Session 1

15:15 - 15:40 ***Title: Mechanisms of metastable phase transformations in Al-Cu alloys with additions of Si, Ti and B***
Alexander Katsman, *Israel Institute of Technology, Israel*

15:40 - 16:05 ***Title: The texture of zinc after direct extrusion***
Jaroslav Capek, *Czech Academy of Sciences, Czech Republic*

16:05 - 16:20 ***Coffee Break***

16:20 - 16:45 ***Title: Controlled adsorption and release onto/from calcium phosphate materials for medical applications: The example of a bisphosphonate***
Allal Barroug, *Cadi Ayyad University, Morocco*

16:45 - 17:10 ***Title: Characterization and testing of materials***
Mohamed Bensaidi, *University Djillali Liabes, Algeria*

Day 2: June 26, 2018

Keynote Forum

10:00 - 10:40 ***Title: 2D Flatlands – Synthesis, characterization and applications***

Eui-Hyeok *Yang, Stevens Institute of Technology, USA*

10:40 - 10:55 ***Coffee Break***

10:55 - 11:55 *Special Session on*

The European Creep Collaborative Committee: History, Structure, Activities and Last Assessments Results

by ***Augusto Di Gianfrancesco,*** *European Collaborative Creep Committee, Italy*

Session 2

11:55 - 12:20 ***Title: Comparison of electrical behavior of different carbon fillers as a tool to predict final composite behavior***

Mauro Giorcelli, *Polytechnic University of Turin, Italy*

12:20 - 12:45 ***Title: High frequency nano-transistor based ring oscillator***

Soheli Farhana, *International Islamic University Malaysia, Malaysia*

12:45 - 13:10 ***Title: Effect of prior austenitic grain size on the tensile toughness of ultra-high strength steel weldments***

Gitae Park, *Hanyang University, South Korea*

13:10 - 14:00 ***Lunch Break***

14:00 - 14:25 ***Title: Fibre functionalization by plasma treatment***

Mauro Giorcelli, *Polytechnic University of Turin, Italy*

14:25 - 14:50 ***Title: Condensed matter physics at the threshold of the extreme environments of temperature and magnetic fields***

Kevin Storr, *Prairie View A&M University, USA*

Panel Discussion & Session Adjournmnet

14:50 - 16:00 ***Poster Presentation***

Title: Polymeric nanoparticles for controlled release of synergic system posaconazole / temozolomide

Anderson de Jesus Gomes, *University of Brazil, Brazil*

Title: Hydrazine hydrate promoted solvothermal syntheses of Ni_3Fe alloys for efficient oxygen evolution reaction

Animesh Roy, *Myongji University, South Korea*

Title: Atomic resolution characterization of epitaxial structure by using aberration-corrected STEM

Chien-Nan Hsiao, *National Applied Research Laboratories, Taiwan*

Title: Investigating the impact of the particle size on the performance and internal resistance of aqueous zinc ion batteries with a manganese sesquioxide cathode
Christian Bischoff, *Fraunhofer Institute for Solar Energy Systems ISE, Germany*

Title: Production of gallocyanine nanogel as drug delivery system for tauopathies
Claure Nain Lunardi, *University of Brazil, Brazil*

Title: Hierarchical growth of $MnCo_2S_4$ nanoflakes on conducting substrate as a multifunctional electrode
Harsharaj Sayaji Jadhav, *Myongji University, South Korea*

Title: Influence of short-term ageing prior to high temperature creep of ferritic creep-resistant P92 steel
Jiri Dvorak, *Institute of Physics of Materials, Czech Republic*

Title: Electrochemical characteristics of firing reaction for screen-printed Ag contact formation of crystalline Si solar cells
Joo-Youl Huh, *Korea University, South Korea*

Title: Effect of post weld heat treatment on microstructure and mechanical properties of friction stir welded Cu-alloy joints
Kwangjin Lee, *National Applied Research Laboratories, Taiwan*

Title: Fibre functionalization by plasma treatment
Mauro Giorcelli, *Polytechnic University of Turin, Italy*

Title: Characterization and testing of materials
Mohamed Bensaidi, *University Djillali Liabes, Algeria*

Title: Microstructure and creep behaviour of AlTiVNbZr0.25 high entropy alloy at 1073 K
Petr Kral, *Institute of Physics of Materials, Czech Republic*

Title: Ceramic coating and surface modification of non-toxic ceramic pigments
YooJin Kim, *Korea Institute of Ceramic Engineering and Technology, South Korea*

Award Ceremony



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Contact us at: materialscience@annualmeetings.net