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Scientific Program

20th World Congress on

Materials Science and Engineering

June 24-26, 2019 | Vienna, Austria

UK: Conference Series LLC Ltd
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DAY-1

June 24, 2019

Meeting Hall: **Wien 2**

09:00-09:30 Registrations

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

KEYNOTE FORUM

Introduction

10:00-10:40 **Title: Polyacetylene in subnanometer channels**
Bruce S Hudson, Syracuse University, USA

10:40-11:20 **Title: Silver nanoparticles in carbon fiber-reinforced polymer material for mitigation of laser and thermal damage induced by irradiation**
Thomas Schuster, Bundeswehr Research Institute for Materials, Germany

Group Photo & Networking & Refreshments 11:20-11:35 @ Foyer

11:35-12:15 **Title: Cork and solar energy interaction**
Luís Gil, Direcção Geral de Energia e Geologia, Portugal

Sessions: Materials Science and Engineering | Nanomaterials and Nanotechnology | Materials for Energy Applications | Biomaterials and Medical Devices | Metals, Mining, Metallurgy and Materials

Chair: Bruce S Hudson, Syracuse University, USA

INTRODUCTION

12:15-12:45 **Title: New electron-beam equipment and technologies for production of advanced materials using vacuum melting and evaporation methods developed at SPE "ELTEKHMASH"**
A Manulyk, Antech Services Inc., Canada

12:45-13:15 **Title: Forging of Ti-Nb-Ta-Zr-O alloy –new material for hip implant**
K Halmesova, COMTES FHT a.s., Czech Republic

Lunch Break 13:15-14:00 @ Mfifteen

14:00-14:30 **Title: Crystallization and catalytic behaviour of cesium-based zeolite nanocrystals prepared in organotemplate free hydrogel system**
Tau Chuan Ling, University of Malaya, Malaysia

14:30-15:00 **Title: Conversion of microalgal biomass to biochar using thermochemical conversion**
Hwai Chyuan Ong, University of Malaya, Malaysia

YRF

15:00-15:20 **Title: Determination of the monolayer coverage of silica particles**
Angelo La Rosa, London South Bank University, United Kingdom

15:20-15:40 **Title: Lead dodecanoate coating for the corrosion inhibition of lead heritage objects: A comparison between aqueous and ethanolic coating media**
Elbeshary A A Mohammed, Ghent University, Belgium

Networking & Refreshments 15:40-15:55 @ Foyer

15:55-16:15 **Title: Ferromagnetic nanoparticles – A tool for high performance magnetic hyperthermia**
Pon Janani Sugumaran, National University of Singapore, Singapore

16:15-16:35 **Title: Harnessing ambient humidity for energy conservation, harvesting and environmental applications**
Dilip Krishna Nandakumar, National University of Singapore, Singapore

16:35-16:55 **Title: Highly selective and sensitive distinct flower-like ZnO microstructure based gas sensor with optimized CTAB concentration for detection of NOx at room temperature**
Srijita Nundy, Sungkyunkwan University, Republic of Korea

Panel Discussion

DAY-2

June 25, 2019

POSTER PRESENTATIONS 10:00–11:00 @ FOYER

Poster Judge: Bruce S Hudson, Syracuse University, USA

Title: Investigation of mechanical properties using miniature specimens on additive manufactured Ti-6Al-4V
Kateřina Mertová, COMTES FHT a.s., Czech Republic

Title: Permeability behavior of aluminum foams and its correlation with mechanical properties and structural parameters
Manuel F Azamar, IIM-UNAM, Mexico

Title: Investigation of high temperature cyclic loading behavior of molybdenum-hafnium-carbide
Athar Safari, Brandenburg University of Technology, Germany

Title: Automated system of crack detection during mechanical fatigue tests on aeronautic structures
Grégory Lacoste, DGA, France

Title: High temperature corrosion resistance of inconel clad layers in aggressive ash environment

Aleksandra Debowska, AGH-UST, Poland

Title: Effect of thermomechanical processing on dynamic behavior of HSLA steel

Remigiusz Błoniarczyk, AGH-UST, Poland

Title: MOF based Fe_2O_3 hollow Nano cube @ Graphene oxide-Ni for toxic gas sensor

Mingyu Song, Inha University, South Korea

Title: Preparing PEI-silica hybrid gel by sol-gel method

Myeong Yeon Lee, Inha University, South Korea

Title: Materials science and zeitgeist as a basis for the preservation and restoration of cultural heritage

Suzana Polić, Central Institute for Conservation, Serbia

Lunch Break 12:30-13:00 @ Mfifteen

Awards & Closing Ceremony

DAY-3

June 26, 2019

Networking and Lunch 12:30-13:00 @ Mfifteen

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21st World Congress on

Materials Science and Engineering

June 22-23, 2020 Rome, Italy

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