

AGENDA

Monday 20 May, 2019

Hall-Meeting Room 2

8:00-8:30

Registrations & Souvenir Distribution

8:30-9:00

Opening Ceremony

KEYNOTE FORUM

9:00-9:30

Title: Say goodbye to hospitals and hello to implantable sensors

Thomas J Webster | Northeastern University | USA

9:30-10:00

Title: Novelties in additive manufacturing and bio-printing

Radenka Maric | University of Connecticut | USA

10:00-10:30

Title: Nanoscaffold development for targeting mast cells in human tissue

Larry D Unsworth | University of Alberta | Canada

10:30-11:00

Title: Thermoelectricity: Principles and applications

Karl Heinz Gresslehner | University of Applied Sciences Upper Austria | Austria

Group Photo

Coffee Break 11:10-11:30 @ Foyer

11:30-12:00

Title: A narrow band gap, strong ferroelectric perovskite oxide opening up next-generation opto-ferroelectric and energy harvesting devices

Yang Bai | University of Oulu | Finland

12:00-12:30

Title: Macromolecular biomaterials causing heterogeneous ice nucleation

Hinrich Grothe | Vienna University of Technology | Austria

12:30-13:00

Title: Nickel-Titanium shape memory alloys: Design and development of biomedical devices

Andrea Spaggiari | University of Modena and Reggio Emilia | Italy

Lunch Break 13:00- 14:00 @Flemings Restaurant

14:00-14:30

Title: Kinetics of grain arrangements controlled by grain boundary and triple junction migration-experiments and modeling

Ernst Gamsjager | University of Leoben | Austria

14:30-15:00

Title: Multifunctional nanoparticles for simultaneous two-photon imaging and phototherapy

Qing Hua Xu | National University of Singapore | Singapore

15:00-15:30

Title: Solutions and breakthrough technologies to overcome the challenges of polymer composites adoption in construction

Sotirios Grammatikos | Norwegian University of Science and Technology | Norway

15:30-16:00

Title: Making the hospital a safer place by the sonochemical coating of all its textiles and medical devices with antibacterial nanoparticles

Aharon Gendenkan | Bar-Ilan University | Israel

Networking & Refreshment Break 16:00-16:20@Foyer

Sessions on: Structures and Quantum Phenomena in Materials | Electronic Materials | Materials Chemistry | Materials Physics



Session Chair: Sotirios Grammatikos

Norwegian University of Science and Technology, Norway

Session Introduction: 16:20-16:25

16:25-16:45 Title: Mechanics and microstructure of [100] oriented FeNiCoAlTi single crystals

Li Wei Tseng | National Changhua University of Education | Taiwan

16:45-17:05 Title: A heat capacitive PCB

Jonathan Silvano de Sousa | Austria Technologie & Systemtechnik (AT&S AG) | Austria

17:05-17:25 Title: CALPHAD-assisted synthesis of Hf-free Half Heusler thermoelectrics with high $ZT \sim 1.2$

Peter Franz Rogl | University of Vienna | Austria

17:25-17:45 Title: Giant dielectric response and low dielectric loss in PbTiO₃ grafted CaCu₃Ti₄O₁₂ ceramics evaluated by impedance spectroscopy

Ali Rajabtabar | AC²T research GmbH | Austria

Panel Discussion 17:45-17:50

Tuesday 21 May, 2019

Hall-Meeting Room 2

KEYNOTE FORUM

9:00-9:30

Title: The scalable silicon solution for Li-ion batteries

Shiva Adireddy | Advano | USA

9:30-10:00

Title: Verification of the efficacy of targeting peptides linked liposomal nanoparticles for therapy of different cancers

Chin Tarnng Lin | National Taiwan University | Taiwan

10:00-10:30

Title: How piezo MEMS innovate the audio and acoustic industry

Ferruccio Bottoni | USound GmbH | Austria

10:30-11:00

Title: Nanopore devices for nano-biomedical

Sou Ryuzaki | Kyushu University | Japan

Coffee Break 11:00-11:20 @ Foyer

11:20-11:50

Title: Investigation on microstructure and properties of Mg-Li-Al alloys

Xiaodong Peng | Chongqing University | China

11:50-12:20

Title: Biocompatibility of synthetic surgical meshes for abdominal wall repair: An integrated experimental-computational approach

Silvia Todros | University of Padova | Italy

12:20-12:50

Title: Overcoming roadblocks toward reliable and scalable production of nanostructures engineered to the molecular level

Sivashankar Krishnamoorthy | Luxembourg Institute of Science and Technology | Luxembourg

Lunch Break 12:50-13:50 @Flemings Restaurant

13:50-14:20

Title: Biocompatible magnesium alloys for biodegradable implant materials

Yuncang Li | RMIT University | Australia

14:20-14:50

Title: Towards new strategies for development of bone tissue engineering composite scaffolds

Rossana Mara da Silva Moreira Thire | Federal University of Rio de Janeiro | Brazil

14:50-15:20

Title: Novelties in bactericidal nanocomposites based on biopolymers and metal nanoparticles

Agnieszka Kyziol | Jagiellonian University | Poland

15:20-15:50

Title: Nickel-Coralline biomaterials for repair of brain damage

Danny Baranes | Ariel University | Israel

Networking & Refreshment Break 15:50-16:10@Foyer

Sessions on: Semiconductor Materials | Ceramics and Composites | Materials Science



Session Chair: Karl Heinz Gresslehner

University of Applied Sciences Upper Austria, Austria

Session Introduction: 16:10-16:15

16:15-16:35 Title: Highly sensitive and selective gas sensor utilising tips pentacene based organic thin film transistor

Amjad Al Shawi | Bangor University | UK

16:35-16:55 Title: Substrate effect on structural and magnetoresistance properties of amorphous carbon thin films

Awais Siddique Saleemi | Shenzhen University | China

16:55-17:15 Title: Residual strength properties of GFRP composites, using in SARI 250kW wind turbine blade: A practical approach to predict fatigue damages

Pouya Valizadeh | Ferdowsi University of Mashhad | Iran

Panel Discussion 17:15-17:20

Certificate and Prize Distribution

Closing Ceremony