

## RE-ALLOCATION OF SESSION

**C.5 Parallel Session** initially scheduled on Friday, September 22 at Aimilios Riadis hall / M2 is **moved to Thursday AM2 (11.00-13.00), Room 0.F.3.4./M2**

## RE-ALLOCATION OF ORAL PRESENTATION

### Symposium A.1

Initially scheduled on Friday, September 22 at 12.00, 3-21/M1

→ is moved to **Thursday, September 21 at 19.10 (same symposium, i.e. A.1)**

### RESEARCH ON MECHANICAL AND ELECTRICAL PROPERTIES OF WIRES MADE FROM ALUMINIUM-GRAPHENE AND COPPER-GRAPHENE COMPOSITES

MSc Marek Gnięczyk<sup>1</sup>, Prof. Tadeusz Knych<sup>1</sup>, Prof. Beata Smyrak<sup>1</sup>, MSc Bartosz Jurkiewicz<sup>1</sup>, MSc Małgorzata Zasadzińska<sup>1</sup>

<sup>1</sup>AGH-University Of Science and Technology, Kraków, Poland

## ORAL CANCELLATIONS

### Symposium B.5

**Monday, September 18 at 15.20, Conference Room 1/M1**

### THERMAL CONDUCTIVITY MODEL OF Si<sub>3</sub>N<sub>4</sub> CERAMICS

Doctor Xiao-Shan Ning<sup>1</sup>, Mengmeng Peng<sup>1</sup>, Xingli Liu<sup>1</sup>

<sup>1</sup>Tsinghua University, Beijing, China, Haidian district, China

### Symposium A.3

**Monday, September 18 at 15.40, Room I-11/M1**

### ENGINEERED SELF-GROWTH OF MYCELIUM-BASED BIOCOMPOSITE MEMBRANES OF TUNABLE STRUCTURAL CHARACTERISTICS AND PHYSICAL PROPERTIES

Athanassia Athanassiou<sup>1</sup>, Muhammad Haneef<sup>1</sup>, Fabio Ferrando<sup>1</sup>, Aidin Lak<sup>1</sup>, José A. Heredia Guerrero<sup>1</sup>, Luca Ceseracciu<sup>1</sup>, Claudio Canale<sup>1</sup>, Ilker S. Bayer<sup>1</sup>, Despina Fragouli<sup>1</sup>, Teresa Pellegrino<sup>1</sup>, Roberto Cingolani<sup>1</sup>

<sup>1</sup>Istituto Italiano Di Tecnologia, Genova, Italy

### Symposium B.5

**Monday, September 18 at 16.00, Conference Room 1/M1**

### LOW-TEMPERATURE AUTOCLAVE SYNTHESIS OF CHROMIUM BORIDES

Ph.D. Duygu Ağaoğulları<sup>1</sup>, Assist. Prof. Dr. Nazlı Akçamlı<sup>2</sup>, Prof. Dr. Lütfi Öveçoğlu<sup>1</sup>

<sup>1</sup>Istanbul Technical University, Maslak, Turkey, <sup>2</sup>Bursa Technical University, Yildırım, Turkey

# EUROMAT 2017

September 17-22, 2017, Thessaloniki, Greece

Erratum

## Symposium E.3

Tuesday, September 19 at 11.00, Rehearsal Room 5.17/M1

---

### ARTIFICIAL PHOTOSYNTHESIS VIA SOLAR LIGHT DRIVEN CO<sub>2</sub> REDUCTION INTO METHANOL

Mr. Myung Jong Kang<sup>1</sup>, Dr. Chang Woo Kim<sup>1</sup>, Dr. Prof. Young Soo Kang<sup>1</sup>

## Symposium C.2

Tuesday, September 19 at 11.40, Conference Room 4/M1

---

### LASER SURFACE STRUCTURING TO IMPROVE TRIBOLOGICAL SYSTEMS AT MIXED LUBRICATION

Tobias Stark<sup>1</sup> Robert Bosch GmbH, Renningen, Germany

## Symposium A.3

Tuesday, September 19 at 12.40, Room I-11/M1

---

### POLYMER COMPOSITES FOR THE PHOTOACTIVATED OPTOCHEMOSENSING OF TOXIC CONTAMINANTS

Despina Fragouli<sup>1</sup>, Maria Erminia Genovese<sup>1</sup>, Athanassia Athanassiou<sup>1</sup>

<sup>1</sup>Istituto Italiano Di Tecnologia, Genova, Italy

## Symposium C.1

Tuesday, September 19 at 17.50, Room F319/M1

---

### HYBRID NANOCOMPOSITE COATINGS BY AEROSOL-ASSISTED ATMOSPHERIC COLD PLASMA DEPOSITION: PREPARATION, CHARACTERIZATION AND APPLICATIONS

Dr. David Ruch

<sup>1</sup>Luxembourg Institute of Science and Technology, Esch/alzette, Luxembourg

## Symposium E.3

Tuesday, September 19 at 18.30, Rehearsal Room 5.17/M1

---

### FIXED CHARGE DIELECTRICS FOR SURFACE PASSIVATION OF SOLAR CELLS

Professor / Center Director Erik Stensrud Marstein<sup>1</sup>, Ms Therese Stokkan<sup>1,2</sup>, Ms Heidi Tønnesson<sup>1,3</sup>, Dr Halvard Haug<sup>1</sup>

<sup>1</sup>Institute for Energy Technology (IFE), Kjeller, Norway, <sup>2</sup>Justervesenet, Kjeller, Norway, <sup>3</sup>3NMBU (Norwegian University of Life Sciences), Aas, Norway

## Symposium C.7

Tuesday, September 19 at 18.50, Room I-15/M1

---

### THE OPTIMIZATION OF STEELMAKING CONDITIONS TO REDUCE MACRO INCLUSION FOR SPECIAL STEEL

Mr. Geunho Park<sup>1</sup>, Mr. Chulho Chang<sup>1</sup>, Mr. Haegon Kim<sup>1</sup>, Mr Joongbum Lee<sup>1</sup>, Dr. Jaehwan Ahn<sup>1</sup>

<sup>1</sup>Hyundai Steel Company, Dangjin-Si, South Korea

# EUROMAT 2017

September 17-22, 2017, Thessaloniki, Greece

Erratum

## Symposium C.7

Tuesday, September 19 at 17.30, Room I-15/M1

---

### THE OPTIMIZATION OF AC EAF PROCESS CHARGING HOT METAL FOR SPECIAL STEEL IN HYUNDAI STEEL

Mr. JongDeok Kim<sup>1</sup>, Dr. JongOh Jo<sup>1</sup>, Mr. DaeHoon Shin<sup>1</sup>, Mr. ChangOh Lee<sup>1</sup>, Dr. ChangHyun Wee<sup>2</sup>, Bachelor KangIl Lee<sup>2</sup>, Dr. JaeHwan Ahn<sup>1</sup>

1 Hyundai Steel R&D Center Steelmaking Technology Development Team, 1480 Bukbusaneop-ro, Songak-eup, Dangjin-si, South Korea, 2 Hyundai Steel Special Steel Steelmaking Department, 1480 Bukbusaneop-ro, Songak-eup, Dangjin-si, South Korea

## Symposium B.2

Wednesday, September 20 at 12.00, Aimilios Riadis Hall/M2

---

### DEVELOPMENT OF TEXTURE CONTROL PROCESS FOR IMPROVING FORMABILITY OF MAGNESIUM ALLOY SHEET

Dr. Se-jong Kim<sup>1</sup>, Dr. Daeyong Kim<sup>1</sup>, Dr. Jinwoo Lee<sup>1</sup>, Dr. Young-Seon Lee<sup>1</sup> <sup>1</sup>Korea Institute Of Materials Science, Changwon, South Korea

## Symposium C.3

Thursday, September 21 at 15.40, Maurice Saltiel Hall III/M2

### CHARACTERIZATION OF A TITANIUMNITRIDE REINFORCED FeCoMo ALLOY

Dr. Christoph Turk<sup>1</sup>, Dipl.-Ing. Ingrid Schemmel<sup>1</sup>, Dr. Gert Kellezi<sup>1</sup>, Prof. Dr Helmut Clemens<sup>2</sup>, Dr. Harald Leitner<sup>1</sup>  
<sup>1</sup> Böhler Edelstahl GmbH & Co KG, Kapfenberg, Austria, <sup>2</sup> Montanuniversität Leoben, Department of Physical Metallurgy and Materials Testing, Leoben, Austria

## Symposium C.3

Thursday, September 21 at 18.10, Maurice Saltiel Hall III/M2

---

### CERAMICS BY DETONATION OF HIGHLY ENERGETIC MATERIALS

Dr Pierre GIBOT<sup>1</sup>, Dr Denis SPITZER<sup>1</sup> <sup>1</sup>Laboratory of Nanomaterials for Systems under Extreme Stresses UMR 3208 CNRS/ISL/UNISTRA, French German Research Institute of Saint-Louis, France

# EUROMAT 2017

September 17-22, 2017, Thessaloniki, Greece

Erratum

## Symposium C.9

Thursday, September 21 at 18.30, Conference Room 3/M1

---

### METAL POWDER COMPOSITE GLUE FOR INDUCTION HEATING IN SHOE MANUFACTURING PROCESS

Dr. Sung-Hyuk Song<sup>1</sup>, Dr. Byungin Kim<sup>1</sup>, Dr. Heechang Park<sup>1</sup>, Dr. Sangtaek Oh

<sup>1</sup>Department of Robotics and Mechatronics, Korea Institute of Machinery and Materials, Daejeon, South Korea, <sup>2</sup> Organic Material Research Division, Korea Institute of Footwear and Leather Technology, Busan, South Korea

## Symposium B.4

Thursday, September 21 at 19.10, Room 3.20/M1

---

### THERMALLY ACTIVATED PLASTICITY OF COARSE GRAINED AND NANOCRYSTALLINE COCRFENIMN HIGH ENTROPY ALLOY AT LOW TEMPERATURES

Dr. Aleksey Podolskiy<sup>1</sup>, Dr. Elena Tabachnikova<sup>1</sup>, Prof. Erhard Schafner<sup>2</sup>, Dr. Mikhail Tikhonovsky<sup>3</sup>, Prof. Michael Zehetbauer<sup>2</sup>

<sup>1</sup>B. Verkin Institute for Low Temperature Physics & Engineering, Kharkiv, Ukraine, <sup>2</sup> Physics of Nanostructured Materials, Faculty of Physics, University of Vienna, Wien, Austria, <sup>3</sup> National Science Center, Kharkov Institute of Physics and Technology, Kharkiv, Ukraine

## Symposium D.6

Friday, September 22 at 12.20, I-08/M1

---

### MULTI-WAVELENGTH RAMAN MICROSCOPY: A SUITABLE TOOL FOR CHARACTERIZING SURFACES IN INTERACTION WITH PLASMAS IN THE FIELD OF NUCLEAR FUSION

Cedric Pardanaud<sup>1</sup>, C. Martin<sup>1</sup>, P. Roubin<sup>1</sup>

<sup>1</sup>Aix-marseille Université, Marseille, France

## Symposium D.6, Maurice Saltiel Hall II/M2

Friday, September 22 at 16.40

---

### EXAMINING STRUCTURE-PROPERTY RELATIONSHIPS IN ATHLETIC COMPOSITES USING CORRELATIVE MICROSCOPY

Jeff Gelb<sup>1</sup>, Dr. Leah Lavery<sup>1</sup>, Luke Hunter<sup>1</sup>, Dr. Lars-Oliver Kautschor<sup>2</sup>, Dr. Arno Merkle

<sup>1</sup>Carl Zeiss Microscopy, Pleasanton, United States, <sup>2</sup>Carl Zeiss Microscopy, Oberkochen, Germany

## POSTER CANCELLATIONS

### Poster Session I

### Tuesday, September 19

\*\*\*\*\*

#### Symposium D.2

Ref. No: D2-P-TUE-P1-11

---

#### IMAGING AFM-METHODS YIELDING YOUNG'S MODULUS MAPS OF AN EPOXY/BOEHMITE NANOCOMPOSITE WITH HIGH SPATIAL RESOLUTION

Dr. Dorothee Silberagl<sup>1</sup>, M.Sc. Media Ghasem Zadeh Khorasani<sup>1</sup>, Prof. Heinz Sturm<sup>1,2</sup> 1 Bundesanstalt für Materialforschung und -prüfung, Berlin, Germany, <sup>2</sup> Technische Universität Berlin, IWF, Berlin, Germany

#### Symposium H.2

Ref. No: H2-P-TUE-P1-1

---

#### CERAMIC SHELL: AN ALTERNATIVE RAW MATERIAL FOR PRODUCTION OF RADIANT POROUS BURNERS

Dr.ing. Antonio Pedro Novaes de Oliveira<sup>1</sup>, MSc. Naiane Paiva Stochero<sup>1</sup>, Dr.ing. Elisângela Guzi de Moraes<sup>1,1</sup> Federal University of Santa Catarina (UFSC), Graduate Program in Materials Science and Engineering (PGMAT), Laboratory of Glass-Ceramic Materials (VITROCER), Campus Universitário, Trindade

#### Symposium F.1

Ref. No: F1-P-TUE-P1-16

---

#### DEALLOYING-BASED NANOCOMPOSITES: TOWARDS A NEW GENERATION OF IMPLANT BIOMATERIALS

Dr. Ilya Okulov<sup>1,2</sup>, Mr. Artem Okulov<sup>1,3</sup>, Assoc. Prof. Takeshi Wada<sup>2</sup>, Prof. Hidemi Kato<sup>2</sup>, Prof. Jörg Weissmüller<sup>1,4</sup>, Dr. Jürgen Markmann<sup>1,4</sup>

<sup>1</sup> Institute of Materials Research, Materials Mechanics, Helmholtz-Zentrum Geesthacht, Geesthacht, Germany, <sup>2</sup> Institute for Materials Research, Tohoku University, Katahira 2-1-1, Sendai 980-8577, Japan, <sup>3</sup> Institute of Metal Physics, Ural Division of the Russian Academy of Sciences, Ekaterinburg, Russian Federation, <sup>4</sup> Institute of Materials Physics and Technology, Hamburg University of Technology, Hamburg, Germany

## Poster Session II

### Thursday, September 21

\*\*\*\*\*

#### Symposium E.4

Ref. No:

---

#### ESTIMATION OF THE TRITIUM RETENTION IN ITER TUNGSTEN DIVERTOR TARGET USING MACROSCOPIC RATE EQUATION SIMULATIONS

Christian Grisolia<sup>1,2</sup>, E.A. Hodille<sup>3</sup>, E. Bernard<sup>1</sup>, S. Markelj<sup>4</sup>, J. Mougnot<sup>5</sup>, C. Becquart<sup>6</sup>, R. Bisson<sup>3</sup> <sup>1</sup> Cea - France, Saint Paul Lez Durance, France, <sup>2</sup> National Research Nuclear University "MEPhI", Moscow, Russia, <sup>3</sup> Aix-Marseille University, Marseille, France, <sup>4</sup> Jozef Stefan Institute,, Ljubljana, Slovenia, <sup>5</sup> LSPM, Villetaneuse, France, <sup>6</sup> Lille University, UMET, Villeneuve d'Ascq, France

#### Symposium B.8

Ref. No:

---

#### COMPARISON OF MECHANICAL PROPERTIES OF CrMnFeCoN<sub>2</sub>Cu AND Ti<sub>30</sub>Zr<sub>25</sub>Hf<sub>15</sub>Nb<sub>20</sub>Ta<sub>10</sub> HIGH ENTROPY ALLOYS WITH THE DIFFERENT CRYSTAL LATTICE IN THE TEMPERATURE RANGE OF 4.2 – 293 K.

Shapovalov, Mr Yuriy B. Verkin Institute For Low Temperature Physics And Engineering Of The National Academy Of Sciences Of Ukraine

<sup>1</sup> B. Verkin Institute for Low Temperature Physics and Engineering of the NAS of Ukraine, 47 Nauky Ave., Kharkiv, Ukraine, <sup>2</sup> Frantsevich Institute for Problems of Materials Science of the NAS of Ukraine, <sup>3</sup> Krzhizha-novsky Str., Kyiv-142, Ukraine