



MACEDONIAN UNION OF METALLURGISTS

VII<sup>th</sup> INTERNATIONAL METALURGICAL  
CONGRESS

METALLURGY, MATERIALS, ENVIROMENTAL (MME)

# PROGRAM



OHRID 09.06-12.06.2016

**VII<sup>th</sup> INTERNATIONAL METALURGICAL CONGRESS**

**Thursday 09.06.2016**

**16:00** Registration of participants

**20:00** Welcome party

**Friday 10.06.2016**

**09:00 - 10:00** Registration of participants

**10:00 - 10:30** Opening ceremony (Hall 2)

**Chair Persons: Sveto Cvetkovski and Perica Paunović**

**Plenary lectures (Hall 2)**

- 10:30 - 11:00 M.C. Somani** **Plenary lecture (PL-1)**  
Centre for Advanced Steels Research,  
University of Oulu, Finland  
**RECENT ADVANCES IN DEVELOPMENT AND  
PROCESSING OF NOVEL SUPER-HIGH STRENGTH  
STEELS THROUGH DIRECT QUENCHING**
- 11:00 - 11:30 Srecko Stopic** **Plenary lecture (PL-2)**  
IME Process Metallurgy and Metal Recycling,  
RWTH Aachen University, Germany  
**HYDROMETALLURGY OF RARE EARTH ELEMENTS**
- 11:30 - 12:00 Jakob Lamut** **Plenary lecture (PL-3)**  
University of Ljubljana, NTF,  
Department of Materials and Metallurgy, Slovenia  
**PHASE COMPOSITION OF BY-PRODUCTS  
FROM STEEL MAKING**
- 12:00 - 12:15 Lorenzo Stoppani**  
**Presentation of JODOVIT Chemical Group**

**VII<sup>th</sup> INTERNATIONAL METALLURGICAL CONGRESS**

---

---

**12:15 - 12:30 Coffee break**

---

**Invited lectures (Hall 2)**

**12:30 - 12:45 Bogdan Rangelov** **Invited lecture (IN-1)**  
Institute of Physical Chemistry,  
Bulgarian Academy of Sciences, Sofia, Bulgaria  
**CRYSTAL GROWTH AND PHASE TRANSITIONS – in situ ELECTRON MICROSCOPY**

**12:45 - 13:00 Bora Derin** **Invited lecture (IN-2)**  
Istanbul Technical University, Metallurgical and Materials Engineering Department  
Maslak/ Istanbul/ Turkey  
**SOME RECENT STUDIES ON HIGH TEMPERATURE PROCESSES IN ITU**

**13:00 - 13:15 Dimitar Krastev** **Invited lecture (IN-3)**  
University of Chemical Technology and Metallurgy,  
Sofia, Bulgaria  
**ABOUT SOME NONTRADITIONAL PROCESSES FOR  
SURFACE MODIFICATION OF STEELS**

**13:15 - 13:30 Dragana Živković** **Invited lecture (IN-4)**  
University of Belgrade,  
Technical Faculty in Bor, Bor, Serbia  
**SURVEY ON CHARACTERIZATION OF METALLURGICAL SLAG SAMPLES FROM  
SOME ARCHAEOLOGICAL SITES IN TIMOK REGION (EASTERN SERBIA)**

**13:30 - 13:45 Miroslav Sokić** **Invited lecture (IN-5)**  
Institute for Technology of Nuclear and Other Mineral Raw Materials,  
Belgrade, Serbia  
**STRUCTURAL INFLUENCE OF SULPHIDE MINERALS ON THEIR LEACHING  
FROM POLYMETALLIC CONCENTRATE BY SODIUM NITRATE IN SULPHURIC ACID**

## VII<sup>th</sup> INTERNATIONAL METALURGICAL CONGRESS

### Invited lectures (Hall 1)

**12:30 - 12:45 Mitko Kočovski** **Invited lecture (IN-6)**

Makstil a.d Skopje and University of Tourism and Management, Skopje

**ECONOMIC IMPACT ANALYSIS OF MAKSTIL A.D – SKOPJE**

**12:45 - 13:00 Bostjan Markoli** **Invited lecture (IN-7)**

Department of Materials and Metallurgy, Faculty of Natural Sciences and Engineering,  
University of Ljubljana, Slovenia

**FORMATION OF CORE–SHELL AND HOLLOW NANOSPHERES  
DURING PULSED LASER ABLATION-PLA**

**13:00 - 13:15 Victor Geantă** **Invited lecture (IN-8)**

Politehnica University of Bucharest, Bucharest, Romania

**ALLOYS FROM THE FeCrAl SYSTEM UTILIZED IN NEW GENERATION  
NUCLEAR POWER PLANT 4R**

**13:15 - 13:30 Ilirjan Malollari** **Invited lecture (IN-9)**

Group of Chemical Process Engineering, Faculty of Natural Sciences,  
University of Tirana, Albania

**ORGANIC WASTE BIODIGESTION PROCESS SIMULATION  
UNDER DIFFERENT OPERATING CONDITIONS**

**13:30 - 13:45 Radoslav Grujić** **Invited lecture (IN-10)**

Faculty of Technology, Zvornik,  
University of East Sarajevo, BA

**APPLICATION OF NANOMATERIALS IN FOOD PRODUCTION**

**16:00 - 17:00 Poster Sesion (PMM, EM, PDMP, W)  
Hall 2**

**16:00 - Round table - CURRENT SITUATION IN METALLURGY  
Actual Situation And Developing Perspectives**

**20:00 - Sponsors event**

**VII<sup>th</sup> INTERNATIONAL METALURGICAL CONGRESS**

---

**Saturday 11.06.2016**

---

**09:00 - 10:00** Registration of participants

---

**Plenary lectures (Hall 2)**

**10:00 - 10:30 Alexander Karamanov** **Plenary lecture (PL-4)**

Institute of Physical Chemistry,  
Bulgarian Academy of Sciences, Sofia, Bulgaria

**THEORY AND APPLICATION OF  
SINTER-CRYSTALLIZATION**

**10:30 - 11:00 Endre Romhanji** **Plenary lecture (PL-5)**

Department of Metallurgical Engineering, Faculty of Technology  
and Metallurgy University of Belgrade, Serbia

**INFLUENCE OF THE THERMO-MECHANICAL  
TREATMENT ON THE CORROSION SUSCEPTIBILITY  
OF A MODIFIED AA5083 TYPE ALLOY**

**11:00 - 11:30 G.A. Bagliuk** **Plenary lecture (PL-6)**

Institute for Problems of Materials Science (IPMS),  
Kiev, Ukraine

**MELT PROCESSING OF THE CAST IRON  
FOR OF THE FORMING ROLLS WITH BRIQUETED  
POWDER MODIFIERS**

---

**11:30 - 11:45 Coffee break**

---

---

**Invited lectures (Hall 2)**

---

**11:45 - 12:00 Jarmila Trpcevska** **Invited lecture (IN-11)**

Technical University of Kosice, Faculty of Metallurgy,  
Institute of Recycling Technology, Slovakia

**BY-PRODUCTS FORMED IN THE HOT DIP GALVANIZING PROCESS**

## VII<sup>th</sup> INTERNATIONAL METALURGICAL CONGRESS

**12:00 - 12:15 Kemal Delijić** **Invited lecture (IN-12)**

Faculty of Metallurgy and Technology, University of Montenegro

**EFFECT OF HOMOGENIZATION AND INTER-ANNEALING ON FORMABILITY AND CORROSION BEHAVIOR OF TWIN ROLL CASTAI-Fe-Mn-Si SHEETS**

**12:30 - 12:45 Tsanka Dikova** **Invited lecture (IN-13)**

Faculty of Dental Medicine, Medical University of Varna, Varna, Bulgaria

**APPLICATION OF 3D PRINTING IN MANUFACTURING OF CAST PATTERNS**

**12:30 - 12:45 Nenad Radović** **Invited lecture (IN-14)**

University of Belgrade, Faculty of Technology and Metallurgy,  
Department of Metallurgical Engineering, Belgrade, Serbia

**SOME ASPECTS OF DECOMPOSITION OF MEDIUM CARBON VANADIUM MICROALLOYED AUSTENITE**

### Invited lectures (Hall 1)

**11:45 - 12:00 Vencislav Grabulov** **Invited lecture (IN-15)**

Institute for materials testing, Belgrade, Srbija

**DAMAGING OF TURBINE RUNNER BLADES THAT OCCURS DUE TO CAVITATION AT THE HYDRO POWER PLANT „DJERDAP 1“**

**12:00 - 12:15 Sulejman Muhamedagić** **Invited lecture (IN-16)**

University of Zenica, Faculty of Metallurgy and Materials Science,  
Zenica, Bosnia and Hercegovina

**MINERALOGICAL AND PHASE TRANSITIONS IN AGGLOMERATES PRODUCED FROM LIMONITE ORE, OMARSKA**

**12:15 - 12:30 Slaviša Moljević** **Invited lecture (IN-17)**

University of East Sarajevo, Faculty of Mechanical Engineering, Bosnia and Herzegovina

**ANALYSIS OF THE NEED TO IMPROVE QUALITY IN THE MANUFACTURING INDUSTRY**

**12:30 - 12:45 Laubertová, M.** **Invited lecture (IN-18)**

Technical University of Kosice, Faculty of Metallurgy, Institute of Recycling

**SAMPLING PROCEDURE OF PRINTED CIRCUIT BOARDS FROM DISCARDED MOBILE PHONES**

**16:00 - 17:00 Poster Session (CM, E, CPM, PEM, NN, NAM, EP, WMP, IRM, EDU) - Hall 2**

**20:00 - Official Conference Dinner**

**VII<sup>th</sup> INTERNATIONAL METALURGICAL CONGRESS**

---

**Sunday 12.06.2016**

---

**9:00 Sight seeing of Ohrid**

**12:00 Closing of Congress**

**VII<sup>th</sup> INTERNATIONAL METALURGICAL  
CONGRESS**

METALLURGY, MATERIALS, ENVIROMENTAL (MME)



**MACEDONIAN UNION OF METALLURGISTS**

**General sponsor**



## Under the auspices of the



Faculty of Technology and Metallurgy  
University Ss Cyril and Methodius



Economic Chamber of Macedonia



СТОПАНСКА КОМОРА  
НА МАКЕДОНИЈА  
ECONOMIC CHAMBER  
OF MACEDONIA



Engineering Institution  
of Macedonia

## General sponsor



## Sponsors



FENI INDUSTRI A.D. Kavadarci



Jugohrom Ferroalloys LTD  
Jegunovce



BUCIM DOEL, Radovis



ARCELORMITTAL A.D. Skopje



VARDAR DOLOMIT DOO, Skopje



OGNOOTPORNO DOO, Skopje



RZ TEHNICKA  
KONTROLA A.D.,  
Skopje



VATROSTALNA DOO, Skopje



ALEKS DOO, Skopje



STEMCOR MACEDONIA, Skopje



LIPTERM DOO, Skopje



RZ INSTITUT  
A.D., Skopje