# 16th ECerS Conference for Young Sciences in Ceramics

## Novi Sad, Serbia, October 15-18, 2025

## 15.10.2025. Wednesday

09.00-18.00 h Registration - Conference Desk

*PLENARY LECTURE, PL-1* – **Richard Todd**, *United Kingdom*, Ultra-fast firing of ceramics: background, evidence and potential explanation

*PLENARY LECTURE, PL-2* – **Paula Vilarinho**, *Portugal*, Electroceramics under challenge: Processing pathways for next-generation materials

*INVITED LECTURE, IL-1*– **Přemysl Šťastný**, *Czech Republic,* Debinding of large ceramic samples produced using vat photopolymerization

| | **Amphitheater<br>Faculty of Technology** | **Blue Hall<br>Faculty of Technology** | **White Hall<br>Faculty of Technology** |
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| 12.00-12.30 h | Opening ceremony | | |
| 12.30-13.15 h | PL-1 Richard Todd, *United Kingdom*<br>Chair: Zbigniew Pedzich | | |
| 13.15-14.00 h | PL-2 Paula Vilarinho, *Portugal*<br>Chair: Richard Todd | | |
| 14.00-15.00 h | Welcome party | | |
| 15.00-16.15 h | | Ceramic processing - 1<br>Chair: Branko Matović<br><br>OP-1 - Nicolas Albar, *France*<br>**Study of the kinetics of sintering by cold sintering process of zinc oxide**<br><br>O-2 - J.P. Martins Mansano Rosa, *Spain*<br>**A study of microwave radiation interaction with $LaMnO_3$ perovskites**<br><br>OP-3 - Danica Piper, *Serbia*<br>**Epitaxial bilayer thin films based on $La_xSr_{1-x}MnO_3/Ba_ySr_{1-y}TiO_3$ deposited from solution**<br><br>OP-4 - Tobias Prötsch, *Austria*<br>**Damage tolerant alumina-based layered ceramics through rapid sintering**<br><br>OP-5 - Diogo Sousa, *Portugal*<br>**Recycling and regeneration of Ni-based** | Synthesis of ceramic powders - 1<br>Chair: Dawid Kozień<br><br>OP-6 - Jovana Paskaš, *Serbia*<br>**Ultrafast and low-cost synthesis route of Ti-based Mxenes**<br><br>O-7 - Martyna M. Czudec, *Poland*<br>**Investigating the role of Ag and Ni phases in the thermoelectric properties of multicomponent oxides composites**<br><br>OP-8 - Tijana B. Vlašković, *Serbia*<br>**Hydrazine synthesis of $Ca_{0.9}Er_{0.1}MnO_3$ nanopowders**<br><br>OP-9 - Roman Shishkin, *Russia*<br>**High-entropy oxides as a prospective thermal barrier material**<br><br>OP-10 - S. Stanojević-Nikolić, *Serbia* |

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| | | **electrodes from Spent MCFC Cells** | **Development of green polyurethane composites reinforced with renewable fillers** |
| 16.15-16.45 h | | IL-1 Přemysl Šťastný, *Czech Republic*<br>Chair: Branko Matović | |
| 16.45-17.00h | | Coffee break | Coffee break |
| 17.00-18.30 h | | Engineering and refractory ceramics - 1<br>Chair: Branko Škorić<br><br>OP-11 - Maximilian Munz, *Austria*<br>**Failure in Hertzian contact and conventional strength tests: A comparison using silicon nitride balls**<br><br>OP-12 - Vladimir Terek, *Serbia*<br>**Tribological testing of thin ceramic TiAlSiN hard coating using high temperature tribometer**<br><br>OP-13 - Jeevankumar Pallagani, *Italy*<br>**Textured alumina/zirconia composites fabricated via Digital Light Processing (DLP)**<br><br>OP-14 - Noushin Keshtkar, *Spain*<br>**Boron-rich boron carbide ceramics with $B_{10}C$ stoichiometry by a hybrid high energy ball milling and reactive SPS methodology**<br><br>OP-15 - Emilija Nidžović, *Serbia*<br>**Nanoemulsification synthesis and spark plasma sintering of ternary-substituted hydroxyapatite**<br><br>OP-16 - Olga Jurecka, *Poland*<br>**The influence of $ZrO_2$ nanopowders characteristics on the heterocoagulation phenomenon and microstructural homogeneity of $Al_2O_3$–$ZrO_2$ composites** | Electroceramics (Energy storage) - 1<br>Chair: Sanja Kojić<br><br>OP-17 - Lucjan Kozielski, *Poland*<br>**Recent advances in lead-free ceramics materials for energy storage**<br><br>OP-18 - Catalin Ianasi, *Romania*<br>**Carbon-enhanced structured materials with designed functionality based on metal oxides**<br><br>OP-19 - Ammar Eqbal, *Italy*<br>**Synthesis and characterization of bixbyite HEO as potential anode in Li-ion batteries**<br><br>OP-20 - Katarzyna Walczak, *Poland*<br>**Tailoring the structural and electrochemical properties of NASICON-type $Na_{3+y}V_{2-y}Mny(PO_4)_3$ as cathode materials for Na-ion batteries**<br><br>OP-21 - Paula Svera, *Romania*<br>**Preliminary studies of ZnO effect on bacterial cellulose obtained from Kombucha**<br><br>OP-22 - Huda F. Khalil, *Egypt*<br>**Nickel-substituted $CdSnO_3$ perovskite nanoparticles: A new frontier in energy storage** |

20.00-23.00 h KC Lab – social event

## 16.10.2025. Thursday

08.00-18.00 h Registration - Conference Desk

*PLENARY LECTURE, PL-3* – **Subramshu S. Bhattacharya**, *India*, Multicomponent high entropy oxides: Synthesis and structure-property correlations

*PLENARY LECTURE, PL-4* – **Jacob L. Jones**, *USA,* Advancing ceramic science using X-ray and neutron scattering: Student success stories in method development and scientific achievements

*PLENARY LECTURE, PL-5* – **Markus Winterer**, *Germany*, Chemical vapor synthesis of nanocrystalline oxides

*INVITED LECTURE, IL-2* - **Leontin Paduraiu**, *Romania*, Finite Element Method for describing functional properties of ceramics

*INVITED LECTURE, IL-3* – **Antonia Ressler**, *Finland,* Smart biomimetic scaffolds for bone repair and disease control

*INVITED LECTURE, IL-4* – **Hassanen Jaber**, *Hungary*, Comprehensive investigation of the thermal stability of AB-type bio-carbonate hydroxyapatite

| | **Amphitheater<br>Faculty of Technology** | **Blue Hall<br>Faculty of Technology** | **White Hall<br>Faculty of Technology** |
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| 09.00-10.15 h | | Electroceramics (SOFC) - 2<br>Chair: Igor Djerdj<br><br>OP-23 - Zofia Skowrońska*, Poland*<br>**Shaping of $ZrO_2$-$ZrSiO_4$ composites via UV-assisted DIW**<br><br>OP-24 - Jacek Winiarski*, Poland*<br>**$Gd_xSm_{1-x}Ba_{0.5}Sr_{0.5}CoCuO_{5+\delta}$ air electrodes for solid oxide fuel cells**<br><br>OP-25 - Arijit Jana*, Austria*<br>**A multi-material design strategy for optimizing mechanical strength and ionic conductivity in 8YSZ solid oxide electrolytes**<br><br>OP-26 - Y. Sai Swaroop Sarma*, India*<br>**Non-noble transition metal based spinel high entropy oxide as anode for seawater electrolysis**<br><br>OP-27 - Piotr Winiarz, *Poland*<br>**Synthesis, structural, and thermal properties of $RE_{(1-x)}M_xMnO_{3-\delta}$ advanced ceramics exhibiting negative expansion coefficient for solid oxide fuel cells cathodes** | Engineering and refractory ceramics - 2<br>Chair: Přemysl Šťastný<br><br>OP-28 - Yaroslav A. Nikiforov, *Russia*<br>**Kinetics of joint layer formation between zirconium carbide and iridium**<br><br>OP-29 - Zoran Bobić*, Serbia*<br>**Corrosion testing of TiO-TiN (ALD-PVD) ceramic coating**<br><br>OP-30 - Wojciech Banaś*, Poland*<br>**Composites incorporating covalent phases were synthesized using boron carbide ($B_4C$) and MAX phases**<br><br>OP-31 - Naser Hosseini*, Slovakia*<br>**Joining of (MoNbTaVW)C high-entropy carbides using a designed NiTa interlayer: Wettability, interfacial reactions, and brazing**<br><br>OP-32 - Jan Słomiński*, Poland*<br>**Role of precursor size in reactive spark plasma sintering of $TaB_2$** |
| 10.15-10.45 h | | IL-2 Leontin Paduraiu, *Romania*<br>Chair: Igor Djerdj | |
| 10.45-11.00 h | | Coffee break | Coffee break |

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| 11.00-11.30 h | | IL-3 Antonia Ressler, *Finland*<br>Chair: Zbigniew Pedzich | |
| 11.30-12.45 h | | Bioceramics - 1<br>Chair: Aleksandar Djordjević<br><br>OP-33 - Haruish Swaminathan, *Finland*<br>**3D-printed glass ceramic composite scaffolds based on borosilicate glass and Ag/Sr-substituted hydroxyapatite: Physicochemical and antibacterial properties**<br><br>OP-34 – M. Monika Marić, *Croatia/Germany*<br>**Borate-based bioactive glass nanoparticles doped with Ag and Co for biomedical applications**<br><br>OP-35 - Karyna Sokol, *Ukraine*<br>**Mechanisms of sintering for calcium phosphate ceramics with impurities**<br><br>OP-36 –Mia Milošević, *Serbia*<br>**Development of composite macroporous scaffolds based on alginate and bioactive glass particles for 3D osteosarcoma cell cultures**<br><br>OP-37 -Dušica Jovanović, *Serbia*<br>**Energy landscape of glutamine (l) on pristine and Au / Ag / Cu doped anatase surfaces with potential biomedical applications** | Ceramic processing - 2<br>Chair: Michael Stuer<br><br>OP-38 – Emeric Sanchez, *France*<br>**Characterization of the pressure effect during Cold Sintering Process by *in operando* impedance spectroscopy**<br><br>OP-39 - Joanna Tanska, *Poland*<br>**Enhancing fracture toughness in ceramic-matrix-composites via metallic precursor reinforcement**<br><br>OP-40 - Blanka Seredynska, *Poland*<br>**3D printing by UV-DIW technique from aqueous-based ceramic pastes**<br><br>OP-41 - Jurij Delihowski, *Poland*<br>**Rheological behavior of clay-cement suspensions with fly ash additives for 3D printing application**<br><br>OP-42 - Aleksandra Bąk, *Poland*<br>**Enhancing thermal performance of $MgAl_2O_4$ refractory ceramics via high-temperature reactive sintering** |
| 12.45-13.30 h | PL-3 Subramshu S. Bhattacharya, *India*<br>Chair: Claude Estournes | | |
| 13.30-14.30 h | Lunch break | | |
| 14.30-15.15 h | PL-4 Jacob L. Jones, *USA*<br>Chair: Paula Vilarinho | | |
| 15.15-16.00 h | PL-5 Markus Winterer, *Germany*<br>Chair: Subramshu S. Bhattacharya | | |
| 16.00-17.00 h | | Electroceramics (Thermoelectrics) - 3<br>Chair: Subramshu S. Bhattacharya<br><br>OP-43 - Nikola Kanas, *Serbia*, **Development of thermoelectrics in TEGMATICA company**<br><br>OP-44 - Miguel A. Vieira, *Portugal* | Catalysts - 1<br>Chair: Henrik Haspel<br><br>OP-47 - Áron Klonka, *Hungary*<br>**Design and realization of a magnetic rotating disc electrode for mechanistic electrochemical investigations under** |

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| | | **Enhancing thermoelectric performance of $SrTiO_3$ through structural and doping engineering**<br><br>OP-45- Yevhen Brych, *Ireland*<br>**Measuring the dielectric constant of ceramics with electrostatic force microscopy**<br><br>OP-46 - Asif Ali, *Slovakia*<br>**Design and synthesis of novel high-entropy perovskite oxides for thermoelectric applications** | **magnetic field**<br><br>OP-48 - Henrique Tidei, *Portugal*<br>**Influence of microstructure on the $CO_2$ separation performance of ceria-carbonate-based composites**<br><br>OP-49 - Henrik Fülöp, *Hungary*<br>**Coordination polymer-derived Ag catalyst: In-situ investigation of the formation mechanism**<br><br>OP-50 - Michał Dominów, *Poland*<br>**3D-printed polycrystalline ceramic catalysts for biogas reforming** |
| 17.00-17.15 h | | Coffee break | Coffee break |
| 17.15-17.45 h | | IL-4 Hassanen Jaber, *Hungary*<br>Chair: Branimir Bajac | |
| 17.45-19.00 h | | Electroceramics (Piezo/ferroelectrics) - 4<br>Chair: Branimir Bajac<br><br>OP-51 - Dawid Kurczek, *Poland*<br>**Synthesis and ferroelectric properties of $Ba_{0.9}Ca_{0.1}TiO_3$ ceramics substituted by $Eu^{3+}$ ions**<br><br>OP-52 - Nadia Bencharef, *France*<br>**Optimization of low-temperature spar plasma sintering of KNN ceramics for lead-free piezoelectric energy harvesting**<br><br>OP-53 - Ashley Bonilla Molina, *Spain*<br>**The right one is Low friction-coefficient materials: a green-route towards sustainable materials processing**<br><br>OP-54 - Lazăr Petre Cosmin, *Romania*<br>**Preparation and dielectric properties of $BaTi_{1-x}Sn_xO_3$ ceramics prepared by the solid-state method**<br><br>OP-55 - Piotr Czaja, *Poland*<br>**$K_{0.5}Bi_{0.5}TiO_3$ - technology, properties and applications** | Bioceramics - 2<br>Chair: Hassanen Jaber<br><br>OP-56 - Miljana Mirković, *Serbia*<br>**Nanocrystalline SrHAp material with good antimicrobial properties**<br><br>OP-57 - Evelina Herendija, *Serbia*<br>**Amorphous calcium phosphate bioceramic nanoparticles and their cellular biocompatibility as a basis for application in medicine and dentistry**<br><br>OP-58 - Weronika Bulejak, *Poland*<br>**Additive manufacturing of ceramic-based composites: Influence of printing parameters and feedstock composition on functional properties**<br><br>OP-59 - Marija Pavlovic, *Serbia*<br>**Two paths to bone regeneration: Engineering surface nanostructure vs. compositional mimicry**<br><br>OP-60 - Nikolai Leontiev, *Russia*<br>**Novel bioceramics for bone regeneration: High-entropy mixed-cationic silicogermanophosphates with glaserite type structure** |

20.00-23.00 h Restaurant “Fontana” - *Meeting of Young Ceramists Network of the European Ceramic Society and Conference dinner -*

## 17.10.2025. Friday

08.00-10.00 h Registration - Conference Desk

*PLENARY LECTURE, PL-6* – **Claude Estournes**, *France,* Strategies to overcome the main challenges of Spark Plasma Sintering process and to design materials with tailored properties

*PLENARY LECTURE, PL-7* – **Ryoji Funahashi**, *Japan*, Durability and application of thermoelectric modules

*INVITED LECTURE, IL-5* – **Nikola Knezevic**, *Serbia*, Development and applications of photoresponsive nanostructured Si-based materials

*INVITED LECTURE, IL-6* – **Daniela Šojić Merkulov**, *Serbia*, Sustainable nanotechnology for water treatment: Waste-derived and green photocatalysts in heterogeneous catalysis

*INVITED LECTURE, IL-7* – **Michael Stuer**, *Switzerland*, 3D-Printing of highly transparent alumina ceramics

*INVITED LECTURE, IL-8* – **Martina Kocjan**, *Croatia*, Advances in thin film engineering for solar-driven wastewater treatment: A step toward a sustainable future

*INVITED LECTURE, IL-9*– **Dawid Kozień**, *Poland*, Conscious synthesis of boron carbide: From medical applications to UHTCs (Ultra-High Temperature Ceramics)

| | **Amphitheater<br>BioSense Institute** | | |
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| 09.00-10.15 h | Sensors - 1<br>Chair: Nikola Knežević<br><br>OP-61 - Nikola Markovic, *Serbia*<br>**Modified $NiMn_2O_4$ thick film thermistors for sensor arrays application**<br><br>OP-62 - Sara Joksovic, *Serbia*<br>**Application of new technologies and nanomaterials in processing of an infrared photodetector based on lead selenide**<br><br>OP-63 - Sana Ullah, *SAR China*<br>**Innovative approaches to electrocaloric response in high-entropy ferroelectric ceramics**<br><br>OP-64 - Jelena Đerić, *Serbia*<br>**MXene-based nanomembranes for alcohol vapor detection**<br><br>OP-65 - Miljana Piljević, *Serbia*<br>**Chitosan assisted solvothermal synthesis of $NaY_{1-x}Gd_xF_4$:Yb/Er nanoparticles for non-specific cell labeling and temperature sensing** | | |

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| 10.15-10.45 h | IL-5 Nikola Knezevic, *Serbia*<br>Chair: Jacob L. Jones | | |
| 10.45-11.00 h | Coffee break | | |
| 11.00-11.30 h | IL-6 Daniela Šojić Merkulov, *Serbia*<br>Chair: Martina Kocijan | | |
| 11.30-12.45 h | Photocatalysts - 1<br>Chair: Daniela Šojić Merkulov<br><br>OP-66 - Surbata Ghosh, India<br>**Flame Spray Pyrolysis (FSP)-made defect-rich high entropy oxides (HEOs) as electrocatalysts for overall water splitting applications**<br><br>OP-67 - Jyoti Jyoti,, *Italy*<br>**3D printing of $TiO_2$ structures for photocatalytic degradation of rhodamine B**<br><br>OP-68 - Jelena P. Georgijević, *Serbia*<br>**Surface engineering of $TiO_2$ thin films via annealing-induced nitrogen diffusion from TiN sublayers for enhanced photocatalysis**<br><br>OP-69 - Sofija Petković, *Serbia*<br>**g-$C_3N_4$/$SiO_2$ composites obtained by the microemulsion-assisted sol-gel method for the photocatalytic reduction of Cr(VI)**<br><br>OP-70 - Cristina Vladut, *Romania*<br>**Photocatalytic performance of Mn-doped ZnO nanopowders synthesized via sol-gel and microwave-assisted sol-gel methods** | | |
| 12.45-13.30 h | PL-6 Claude Estournes, *France*<br>Chair: Jacob L. Jones | | |
| 13.30-14.30 h | Lunch break | | |
| 14.30-15.00h | IL-7 Michael Stuer, *Switzerland*<br>Chair: Ryoji Funahashi | | |
| 15.00-15.45 h | PL-7 Ryoji Funahashi, *Japan*<br>Chair: Nilola Kanas | | |
| 15.45-16.45 h | Electroceramics (Piezo/ferroelectrics) - 5<br>Chair: Jovana Stanojev<br><br>OP-71 - Waseem Ahmad Wani, *Ireland*<br>**Environmental control of ferrroelectricity in** | | |

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| | **hafnia based thin-films**<br><br>OP-72 - Sanjoy Das, *India*<br>**Covalency-tuned high entropy perovskite oxides for ferroelectric and neuromorphic device applications**<br><br>OP-73 - Elena Mirabela Soare, *Romania*<br>**The influence of composition on structure, microstructure, and functional properties of fine-grained $BaTi_{1-x}Hf_xO_3$ ceramics processed via Spark Plasma Sintering**<br><br>OP-74 - Claudia Sosa Espada, *Ireland*<br>**Exploring the impact of electrode interfaces on ferroelectric switching in hafnia thin films under environmental control** | | |
| 16.45-17.00 h | Coffee break | | |
| 17.00-17.30 h | IL-8 Martina Kocjan, *Croatia*<br>Chair: Antonia Ressler | | |
| 17.30-18.00 h | IL-9 Dawid Kozień, *Poland*<br>Chair: Antonia Ressler | | |
| 18.00-19.00 h | Porous ceramics and membranes<br>Chair: Antonia Ressler<br><br>OP-75 - Amna Korbi, *France*<br>**Cold sintering process (CSP): Functional mesoporous hybrid silica monolith to a green route of micropollutants adsorption**<br><br>OP-76 - Sarvarjon Kurbonov, *Hungary*<br>**Ordered mesoporous silica prepared with biodegradable Gemini surfactants as templates for environmental applications**<br><br>OP-77 - Ayodeji Akerele, *Hungary*<br>**Investigating the effects of firing temperature on the properties of environmentally sustainable ceramic foam glass**<br><br>OP-78 - Vesna Miljić, *Serbia*<br>**Sustainable development of porous building materials based on bio-waste** | | |

19.00-21.00 h Social Program - Exhibition - Gallery

## 18.10.2025. Saturday

*INVITED LECTURE, IL-10* – **Felipe F. Morgado**, *Germany*, High-resolution X-ray diffraction for epitaxial thin films: principles and applications

| | | **Blue Hall<br>Faculty of Technology** | **White Hall<br>Faculty of Technology** |
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| 09.00-10.30 h | | Electroceramics - 6<br>Chair: Felipe F. Morgado<br><br>OP-79 - Hanna Kavaliuk, *Poland*<br>**Structural and electrical properties of multicomponent Co-based double perovskites**<br><br>OP-80 - Aaditya Rangan Raghavan, *India*<br>**Effect of A-site cation valency on the magnetic behaviour of high entropy perovskite**<br><br>OP-81 - Małgorzata Lemańska, *Poland*<br>**Doping as an effective method to improve the properties of barium cerate**<br><br>OP-82 - Anda Oajdea, *Romania*<br>**Influence of silver content and thermal reoxidation on functional properties of $BaTiO_3$-based ceramic and multilayer composites**<br><br>OP-83- Miroslav Katanic, *Serbia*<br>**Space charge relaxation of barium hexaferrite in the low frequency region**<br><br>OP-84 - Nikola Cichocka, *Poland*<br>**Microwave-driven hydrothermal synthesis of $Eu^{3+}$-doped lanthanum/aluminum oxides: Growth conditions vs. optical and structural characteristics** | Ceramic processing - 3<br>Chair: Snežana Petrović<br><br>OP-85 - Diaa El-Rahman Rayan, *Egypt*<br>**Role of composition in the photocatalytic efficiency of $Cu^{2+}$ and $Al^{3+}$ ions co-doped Ni-Zn ferrites nanoparticles**<br><br>OP-86 - Maurad Mechouet, *Algeria*<br>**Obtaining a hybrid electrode based on imidazonium ionterminated and metallic nano-clusters and its catalytic activity toward HER**<br><br>OP-87 - Marija Kovač, *Serbia*<br>**Investigating the Middle Ages brick technology – Multi analytic approach**<br><br>OP-88 - Mahmoud Mohamed Ismail, *Egypt*<br>**Synthesis of copper (Cu) and copper oxide (CuO) nanoparticles derived from electronic waste and assessment of their antibacterial and photocatalytic activities**<br><br>OP-89 - Daniil Golubchikov, *Russia*<br>**The pathway to stretch the bioresorption rate: Magnesium phosphate ceramics composites with 0.5≤Mg/P≤1.5 for bone tissue engineering**<br><br>OP-90 –Hocine Moussouni, *Algeria*<br>**Investigating the reactivity of surface functionalization with ionterminated using scanning electrochemical microscopy (SECM)** |
| 10.30-11.00 h | | IL-10 Felipe F. Morgado, *Germany*<br>Chair: Markus Winterer | |
| 11.00-11.15 h | | Coffee break | Coffee break |

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| 11.15-13.00h | | Ceramic processing - 4<br>Chair: Ivan Stijepovic<br><br>OP-91 - Ionuţ Bălescu, *Romania*<br>**Lanthanum-doped silicon, iron and zinc oxides with applications in the ceramic field**<br><br>OP-92 - Duško Kostić, *Bosnia & Herzegovina*<br>**Structural modification and iron removal from tionite via electric arc furnace treatment**<br><br>OP-93 - Albina Murashko, *Russia*<br>**Biphasic calcium phosphates bioceramics produced by DLP 3D printing for bone repair**<br><br>OP-94 - Azim Uddin, *China*<br>**Eco-friendly $Fe_2O_3$@activated carbon composites from biomass waste for advanced electromagnetic wave absorption**<br><br>OP-95 - Tatiana Lomakina, *Russia*<br>**Manufacturing of $ZrO_2$ based solid solutions with lanthanide oxides: the effect of xerogels and precursor powders properties**<br><br>OP-96 - Fatima Hina, *Pakistan*<br>**Predicting wear resistance of graphene-added $Si_3N_4$ using machine learning**<br><br>OP-97 – Iva Toković, *Serbia*<br>**DFT investigation of oxygen vacancy effects on the structural and electronic properties of $LaMnO_3$** | |
| 13.00-13.15 h | | Closing ceremony | |