



# 27th Congress of SCTM

Sep 25 – 28, 2024  
 Metropol Lake Resort, Ohrid  
 Europe/Zurich timezone

- Overview
- Book of Abstracts
- Best Poster Award
- Photo Gallery
- Scientific Sections
- Call for Abstracts
- Registration
- Programme**
- Satellite event - Climathon Ohrid
- Registration Fee
- Invited Lecturers
- Committees
  - Scientific Committee
  - Organizing Committee
- Accommodation
- Payment

Contact

[biljana@tmf.ukim.edu.mk](mailto:biljana@tmf.ukim.edu.mk)  
 +389-2 308-8275

## Programme

### Wednesday 25.09.2024

16.00 – 19.30 **Registration of participants**  
 20.30 **Welcome cocktail**

### Thursday 26.09.2024

8.00 – 9.30 **Registration of participants**  
 9.30 – 10.00 **Congress opening (Biljana Hall)**  
 Minister of Education and Science Prof.Dr. Vesna Janevska  
 Dept. Minister MSc. Ane Lashkoska, MOEPP  
 Rector of Ss. Cyril and Methodius University in Skopje, Prof. Dr. Biljana Angelova  
 Major of Ohrid, Mr. Kiril Pecakov  
 Dean of FTM, UKIM Skopje, Prof. Dr. Stefan Kuvendziev  
 President of SCTM, Prof. Dr. Zoran Zdravkovski

#### SESSION 1 (Biljana Hall)

**Chairperson: Jadranka Blazhevska Gilev**

10.00 – 10.40 Plenary lecturer: **STEFANO BELLUCCI**  
 INFN-Laboratori Nazionali di Frascati, Frascati  
*Graphene-based nanomaterials for water purification*  
 10.40 – 11.10 **Coffee break**

#### SESSION 2 (Biljana Hall)

**Chairperson: Marina Stefova**

11.10 – 11.50 Plenary lecturer: **RADMILA TOMOVSKA**  
 Polymat Institute of the University of the Basque Country UPV/EHU, Donostia-San Sebastian  
*Emulsifier-Free Waterborne (Meth)acrylic Formulations Enhanced with Zwitterionic Monomers*  
 11.50 – 12.20 Invited lecturer: **ANDREW PETER EDWARD YORK**  
 Johnson Matthey Technology Centre, Sonning Common, U.K.  
*Johnson Matthey Catalysis Research: How Novel Science and Characterisation Supports Technology*  
 12.20 – 12.50 Invited lecturer: **GORAN STOJANOVIC**  
 Faculty of Technical Science, University of Novi Sad, Novi Sad, Serbia

13.00 – 14.15 **Lunch Time**

14.15 – 17.30 Parallel oral presentations (10 min presentation + 5 min discussion) (Biljana Hall)

Section PPM, OBPC, BFT, TE, EDU

Chairperson: Aleksandra Buzharovska and Darko Dimitrovski

14.15-14.30 **PPM O-1** **Orkhan Gulahmadov**  
*Enhancement of Triboelectric Nanogenerators with Nylon/Graphene Nanocomposite Films*

14.30-14.45 **PPM O-2** **Justine Elgoyhen**  
*Semocrystalline Waterborne Coatings via Thiol-ene Polymerization in Dispersed Media*

14.45-15.00 **PPM O-3** **Aleksandra Ivanoska-Dacikj**  
*Electrospun (Dynamic) Composite Membranes for Water Desalination*

15.00-15.15 **PPM O-4** **Aynura Karimova**  
*Chrysin Loaded Iron Oxide Nanoparticles Coated with Chitosan and Cross-linked Chitosan: A Structural Study*

15.15-15.30 **PPM O-5** **Ivan Kodrin**  
*CO<sub>2</sub> Adsorption of Nitrogen-Containing Porous Organic Materials: A Computationally Assisted Approach*

15.30-15.45 **OBPC O-1** **Ivo Crnolatac**  
*Monitoring Lipid Phase Transitions with Fluorescent Dyes*

15.45-16.15 **Coffee break**

16.15-16.30 **BFT O-1** **Aleš Podgornik**  
*Novel Non-Invasive Method for Determination of Immobilized Macromolecules*

16.30-16.45 **BFT O-2** **Viktor Cicimov**  
*Isolation Media for Purple Phototrophic Bacteria*

16.45-17.00 **TE O-1** **Sandra Bischof**  
*When Biomass Waste Becomes a Valuable Bioproduct*

17.00-17.15 **TE O-2** **Anica Hursa Šajatović**  
*The Ecological Impact of Protective Clothing Washing*

17.15-17.30 **EDU O-1** **Aysel Beydullayeva**  
*The Role Self-Esteem Plays in Academic Achievement*

14.15 – 17.30 Parallel oral presentations (10 min presentation + 5 min discussion) (Ohrid hall)

Section PSSE, ICTM, AEC, CE

Chairperson: Vladimir Ivanovski and Jasmina Petreska Stanoeva

14.15-14.30 **PSSE O-1** **Lala Gahramanli**  
*Physical Properties of CdxZn1-XS-Based Nanocomposite Materials Produced Via Sonochemical and SILAR Methods*

14.30-14.45 **PSSE O-2** **Lala Gahramanli**  
*Influence of Gamma Irradiation and Thermal Annealing to the Graphene Oxide-Based Composite Materials*

14.45-15.00 **PSSE O-3** **Thomas G. Mayerhöfer**  
*Deviations from the Beer-Lambert Approximation Investigated by 2D-Correlation IR Spectroscopy*

15.00-15.15 **PSSE O-4** **Alicja Pawlak**  
*The Influence of Aprotic Organic Solvents on the Kinetics and Mechanism of Electroreduction of Bi(III) Ions*

15.15-15.30 **PSSE O-5** **Hofinger Manuel**  
*Combinatorial Screening of Structural Properties and Oxide Growth on a Co-Evaporated Al-Yb Thin-Film Library*

15.30-15.45 **ICTM O-1** **Jasminka Alijagić**  
*Mining and Metallurgical Waste as Potential Secondary Sources of Metals in the West Balkan*

15.45-16.15 **Coffee break**

- 16.15-16.30  
**AEC O-1** **Vilaznim Mula**  
*Assessment of Volatile Organic Compounds in Indoor and Outdoor Air across North Macedonia and Kosovo*
- 16.30-16.45  
**AEC O-2** **Musaj Paçarizi**  
*Mining Landfills in the Republic of Kosovo - A Case of the Artana Landfill*
- 16.45-17.00  
**AEC O-3** **Marijana Kragulj Isakovski**  
*The Impact of Inoculated Biochar on Pesticide Adsorption and Biosorption in Soil*
- 17.00-17.15  
**AEC O-4** **Sofija Kostandinovska**  
*Ecology of Soil Species of the Genus Bacillus and the Influence of Environmental Factors on their Biologically Active Compounds*
- 17.15-17.30  
**CE O-1** **Flamur Sopaj**  
*Solid Iron Dissolution in Acid Media to Support Fenton Process for Methyl Orange Oxidation*

**17.30 – 18.30** **Poster session (Samoil Hall) Sections: OBPC, BFT, PPM, EDU, TE**

**Chairperson: Marina Stefova and Darko Dimitrovski**

(Please make sure to set up posters for this session from 8.00 to 15.00)

**19.00** **Dinner**

**Friday 27.09.2024**

**SESSION 3 (Biljana Hall)**

**Chairperson: Jasmina Petreska Stanoeva**

- 9.00 – 9.40 Plenary lecturer: **ELIA TOMÁS-PEJÓ**  
IMDEA-Energy Institute, Madrid  
*Carboxylates platform as efficient alternative to sugar platform when targeting at microbial oils production*
- 9.40 – 10.20 Plenary lecturer: **MIRJANA KOSTIC**  
University of Belgrade, Faculty of Technology and Metallurgy – Serbia  
*Cellulose: from Natural to Novel Cellulose-based Functional Materials*
- 10.20 – 10.50** **Coffee break**
- Chairperson: Emilija Fidanchevski**
- 10.50 – 11.30 Invited lecturer: **OLE MEJLHEDE JENSEN**  
Technical University of Denmark, Lyngby, Denmark  
*Building Smarter*
- 11.30 - 12.00 Invited lecturer: **KATEŘINA ŠEBKOVÁ**  
RECETOX, Masaryk University, Brno, Czech Republic  
*Critical Importance of Environmental Data and Analysis for Addressing the Triple Planetary Crisis*
- 12.00 - 12.30 Invited lecturer: **SNEZANA VUCETIC**  
University of Novi Sad, Faculty of Technology Novi Sad, HeritageLab, Novi Sad, Serbia  
*The Secrets Behind the Eyes of Mona Lisa*

**12.30 - 13.30** **Poster session (Samoil Hall) Sections: AEC, ICTM, PSSE, CE**

**Chairperson: Emilija Fidanchevski and Jasmina Petreska Stanoeva**

(Please make sure to set up posters for this session from 8.00 to 12.00)

**13.30 – 14.20** **Lunch time**

**14.30 – 18.00** **Social event: Excursion to St. Naum**

**20.00 – 24.00** **Gala Dinner**

**Saturday 28.09.2024**

**SESSION 4 (Biljana Hall)**

**Chairperson: Jasmina Petreska Stanoeva**

- 9.00 – 9.30 Invited lecturer: **ONDŘEJ ADAMOVSKÝ**  
RECETOX, Faculty of Science, Masaryk University, Brno, Czechia  
***The Microplastic Visualization and Analytical Challenges***
- 9.30 - 10.00 Invited lecturer: **ALEKSANDRA BUŽAROVSKA**  
Ss Cyril and Methodius University, Faculty of Technology and Metallurgy, Skopje, N. Macedonia  
***Piezoelectric Polymeric Materials as Energy Harvesting Systems***
- 10.00 – 10.30 Coffee break**
- 10.30 – 11.00 Invited lecturer: **VLADIMIR IVANOVSKI**  
Ss. Cyril and Methodius University in Skopje, Faculty of Natural Sciences and Mathematics, Institute of Chemistry, Skopje, Macedonia  
***IR Reflectance Spectroscopy with Some Examples of Its Application***
- 11.00 – 11.30 Invited lecturer: **DARKO DIMITROVSKI**  
Ss. Cyril and Methodius University, Faculty of Technology and Metallurgy, Skopje, N. Macedonia  
***Harnessing Anoxygenic Phototropic Bacteria for Bioconversion of Food By-Products***
- 11.30 Congress Closing Ceremony and Poster Awards Announcement**



Powered by [Indico](#) v3.2.1

[Help](#) | [Contact](#)