

# Conference program

## **Session 1      Program – Monday, May 19<sup>th</sup>**

**09:00-10:30      Conference opening**  
Nenad Lazarevic, Zoran Knezevic, Zoran Popovic, Aleksandar Bogojevic, Rudi Hackl

**10:30-10:50      Coffee Break**

**10:50-11:20      Thomas Devereaux**

**11:20-11:50      Kurt Hingerl**

**11:50-12:20      Cedomir Petrovic**

**12:20-14:15      Lunch Break**

**14:15-14:45      Leonardo Degiorgi**

**14:45-15:15      Milorad Milošević**

**15:15-15:45      Vladimir Damljanovic**

**15:45-16:05      Coffee Break**

**16:05-16:35      Jochen Geck (online)**

**16:35-17:05      Zurab Guguchia (online)**

**Session 1      Program – Tuesday, May 20<sup>th</sup>**

**09:00-09:30**      Andrew Goodwin (WS1)

**09:30-10:00**      Goran Karapetrov (WS1)

**10:00-10:30**      Yann Gallais (WS1)

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Tobias Ritschel (WS1)

**11:20-11:50**      Caitlin O'Neil (WS1)

**11:50-12:20**      Igor Vaskivskyi (WS1)

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Matthias Opel

**14:45-15:15**      Bojana Višić

**15:15-15:45**      Branislav Nikolić

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Mazhar Ali (online)

**16:35-17:05**      Nicola Poccia (online)

**17:05-18:05**      **Posters + Cocktail**

**Session 1      Program – Wednesday, May 21<sup>st</sup>**

**09:00-09:30**      Reshef Tenne

**09:30-10:00**      Christoph Gadermair

**10:00-10:30**      Zdenek Sofer

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Andres Cantarero

**11:20-11:50**      Lena Yadgarov

**11:50-12:20**      Marija Drndić

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Simon Billinge

**14:45-15:15**      Jelena Pešić

**15:15-15:45**      Lev Vidmar

**15:45-16:05**      **Coffee Break**

**16:05-17:05**      Peter Hirschfeld (colloquium)

**19:00-21:00**      **Conference dinner**

**Session 1      Program – Thursday, May 22<sup>nd</sup>**

**09:00-09:30**      László Forró

**09:30-10:00**      Neven Barisic

**10:00-10:30**      Alexandros Lappas

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Peter Hirschfeld

**11:20-11:50**      Darko Tanasković

**11:50-12:20**      Jonas Bekaert

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Ivana Evans

**14:45-15:15**      Natalia Drichko

**15:15-15:45**      Aleksandar Matkovic

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Igor Herbut

**16:35-17:05**      Birender Singh (online)

**17:05-18:05**      **Posters + Cocktail**

**Session 1      Program – Friday, May 23<sup>rd</sup>**

**09:00-09:30**      Kristjan Haule

**09:30-10:00**      Wei Ku

**10:00-10:30**      Jakša Vučićević

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Laura Fanfarillo

**11:20-11:50**      Khandker Quader

**11:50-12:20**      Dragana Popovic

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Vladimir Dobrosavljevic

**14:45-15:15**      Zorica Konstantinovic

**15:15-15:45**      Snezana Lazic

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Alberto Pomar

**16:35-17:05**      Bozidar Nikolić

**17:05-17:20**      **Closing ceremony**

**Session 2      Program – Monday, May 19<sup>th</sup>**

**10:30-10:50      Coffee Break**

**10:50-11:20      Nandakumar Kalarikkal**

**11:20-11:40      Jasmina Lazarevic**

**11:40-12:00      Božidar Šoškić**

**12:00-12:20      Contributed talk**

**12:20-14:15      Lunch Break**

**14:15-14:45      Nenad Vukmirovic**

**14:45-15:05      Andrijana Šolajić**

**15:05-15:25      Zorica Lazarevic**

**15:25-15:45      Marko Opačić**

**15:45-16:05      Coffee Break**

**16:05-16:35      Miroslav Požek**

**16:35-17:05      Rados Gajic**

**Session 2      Program – Tuesday, May 20<sup>th</sup>**

**09:00-09:30**      Marko Kralj

**09:30-10:00**      Luka Pirker

**10:00-10:30**      Antonio Bianconi

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Igor Pašti

**11:20-11:40**      Dimitrije Stepanenko

**11:40-12:00**      Dejan Djokic

**12:00-12:20**      Anđelija Ilic

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Radmila Panajotovic

**14:45-15:05**      Ivana Milošević

**15:05-15:25**      Nataša Tomić

**15:25-15:45**      Bojan Stojadinović

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Marko Spasenović

**16:35-17:05**      Enrico Di Lucente

**17:05-18:05**      **Posters + Cocktail**

**Session 2      Program – Wednesday, May 21<sup>st</sup>**

**09:00-09:30**      Gheorghe-Lucian Pascut

**09:30-10:00**      Louissa Reissig

**10:00-10:30**      Ivna Kavre Piltaver

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      John Evans

**11:20-11:40**      Sanja Djurdjic Mijin

**11:40-12:00**      Contributed talk

**12:00-12:20**      Contributed talk

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Tomaz Mertelj

**14:45-15:05**      Contributed talk

**15:05-15:25**      Contributed talk

**15:25-15:45**      Marko Radovic

**15:45-16:05**      **Coffee Break**

**19:00-21:00**      **Conference dinner**

**Session 2      Program – Thursday, May 22<sup>nd</sup>**

**09:00-09:30**      Ana Milosavljević (WS1)

**09:30-10:00**      Hermann Suderow (WS1)

**10:00-10:30**      Corinna Burri (WS1)

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Zhenzhong Shi (WS1)

**11:20-11:50**      Ge He (WS1)

**11:50-12:20**      Myrsini Kaitatzi (WS1)

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Jure Demsar

**14:45-15:05**      Zorica Popović

**15:05-15:25**      Valentin Ivanovski

**15:25-15:45**      Jelena Mitric

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Petar Mitric

**16:35-17:05**      Zeljko Skoko

**17:05-18:05**      **Posters + Coctail**

**Session 2      Program – Friday, May 23<sup>rd</sup>**

**09:00-09:30**      Cormac McGuinness

**09:30-10:00**      Ivana Radosavljevic Evans

**10:00-10:30**      Mads Ry Vogel Jørgensen

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      John S.O. Evans

**11:20-11:50**      Matthias J. Gutmann

**11:50-12:20**      Milan Radovic

**12:20-14:15**      **Lunch Break**

**14:15-14:45**      Michael Gensch

**14:45-15:15**      Mikhail Feygenson

**15:15-15:45**      Zurab Guguchia (online)

**15:45-16:05**      **Coffee Break**

**16:05-16:35**      Gustavo A. Garcia

**16:35-17:05**      Fernando Igoa Saldaña

**17:05-17:35**      Cormac McGuinness

**Program – Thursday, May 22<sup>nd</sup>**

**Workshop 1: Quantum phases and ordering**

**Location: SANU**

**Session 1      Program – Tuesday, May 20<sup>th</sup>**

**08:55-09:00      Workshop opening**

Ana Milosavljevic, Institute of Physics Belgrade, Serbia

***Chairperson:** Ana Milosavljevic*

**09:00-09:30**      Andrew Goodwin

**09:30-10:00**      Goran Karapetrov

**10:00-10:30**      Yann Gallais

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Tobias Ritschel

**11:20-11:50**      Caitlin O’Neil

**11:50-12:20**      Igor Vaskivskyi

**Session 2      Program – Thursday, May 22<sup>nd</sup>**

**09:00-09:30**      Ana Milosavljević

**09:30-10:00**      Hermann Suderow

**10:00-10:30**      Corinna Burri

**10:30-10:50**      **Coffee Break**

**10:50-11:20**      Zhenzhong Shi

**11:20-11:50**      Ge He

**11:50-12:20**      Myrsini Kaitatzi

**Program – Thursday, May 22<sup>nd</sup>**

**Workshop 2: Advanced Materials in Cultural Heritage Protection**

**Location: SANU**

**08:55-09:00 Workshop opening**

Tijana Tomašević-Ilić, Institute of Physics Belgrade, Serbia

**Chairperson:** *Radmila Panajotović*

**09:00-09:20**

Bojana Savić, Faculty of Applied Arts, University of Arts Belgrade, Serbia

*Art Restoration and Science: A Brief History of Entanglement*

**09:20-09:40**

Aleksa Jelikić, Republic Institute for the Protection of Cultural Monuments of Serbia

*Application of Scientific Methodes in Research on MuralPaintings*

**09:40-10:05**

Snežana Vučetić, University of Novi Sad, Faculty of Technology, HeritageLab, Serbia

*Salt Reduction and Self-Cleaning Protection of Cultural Heritage Objects by Development of New Functional Materials*

**10:05-10:30**

Nikola Unković, University of Belgrade, Faculty of Biology, Serbia

*Microbial Assisted Biocontrol and Biocleaning in Stone Heritage Conservation - The Case of Rožanec Mithraeum Monument (Slovenia)*

**10:30-10:50**

**Coffee Break**

**Chairperson:**

*Jelena Pešić*

**10:50-11:20**

Costas Galiotis, University of Patras and FORTH/ ICE-HT, Greece

*Science meets Art: graphene enabling solutions for the conservation of cultural heritage*

**11:20-11:45**

Tijana Tomašević-Ilić, Institute of Physics Belgrade, Serbia

*Tiled Network Films from Liquid Phase Exfoliated h-BN and Phyllosilicates: Properties and Perspectives for Heritage Protection*

**11:45-12:10**

Christian Teichert, Montanuniversitaet Leoben, Austria

*Application of Atomic Force Microscopy Based Techniques for Damage Assessment, Conservation, and Restoration of Historical Papers and Fresco Wall Paintings*

**12:10-14:20**

**Lunch Break**

**Location: FAAUAB**

**Chairperson:** Irena Živković

**14:20-14:50** Tatjana Tripković, Republic Institute for the Protection of Cultural Monuments of Serbia  
*Portable Spectroscopic Instruments in Analyzing Art and Cultural Heritage: Advantages and Shortcomings*

**14:50-16:30** Irena Živković, Faculty of Applied Arts, University of Arts Belgrade, Serbia  
Ivana Milošević, Institute of Physics Belgrade, Serbia  
Jasna Vujin, Institute of Physics Belgrade, Serbia  
Tatjana Tripković, Republic Institute for the Protection of Cultural Monuments of Serbia  
Bojan Miljević, University of Novi Sad, Faculty of Technology, Serbia  
Tijana Tomašević-Ilić, Institute of Physics Belgrade, Serbia  
***Public training - On-site Demonstration of Artefact Characterisation Using Portable Instruments***

**Program – Thursday, May 22<sup>nd</sup>**

**Workshop 3: Bioaerosols and nanoaerosols: interdisciplinary approaches in microbiology**

**Location: SANU**

**Chairperson:** *Predrag Kolarz, Irena Arandelović*

- 11:20 – 11:35** Irena Arandelović, MFUB  
*Introductory talk about the IonCleanTech project and about this workshop*
- 11:35 – 11:55** Irena Arandelović, MFUB  
*Raising importance of the prevention of transmission of airborne biological matter in indoor air – threats posed by bioaerosols*
- 11:55 – 12:10** Marko Janković, MFUB  
*Respiratory infections of viral etiology in immunosuppressed persons*
- 12:10 – 12:25** Assist. dr Stefan Mijatović, MFUB  
*Allergies of the respiratory tract: fungi as the neglected allergens*
- 12:25 – 14:15** Lunch break
- 14:15 – 14:30** Prof. dr Irena Arandelović, MFUB  
*The lung microbiome – pandemic potential in the era of antimicrobial resistance*
- 14:30 – 14:45** Doc. dr Andrea Radalj, FVM  
*Animal respiratory viruses with the zoonotic potential*
- 14:45 – 15:05** dr Mira Aničić Urošević, principal research fellow, IPB  
*Biological Samples for Monitoring of Aerosol and Its Associated Pollutants*
- 15:05 – 15:25** dr Anđelija Ilić, principal research fellow, IPB  
*Characterization of microplastics using spectroscopic and digital image analyses*
- 15:25 – 15:45** dr Predrag Kolarž, principal research fellow, IPB  
*Experimental methods for investigation of ion–aerosol interaction*
- 15:45 – 16:00** **Coffee break**
- 16:00 – 16:20** Jelena Trajković, research assistant, IPB  
*Carbon–fiber and other ionizer types in combating airborne pathogens – a review*
- 16:20 – 16:40** dr Anđelija Ilić, principal research fellow, IPB  
*Performance enhancement of HVAC filters by unipolar ionization*
- 16:40 – 17:00** dr Predrag Kolarž, principal research fellow, IPB  
*Removal and inactivation of bacteria and fungi by ionization / Workshop conclusions*

**Program – Thursday, May 22<sup>nd</sup>**

**Workshop 4: Computational analysis and modeling of biological materials**

**Location: SANU**

**Chairperson:** *Anđelija Ilić, Tijana Štajner*

- 09:00 – 09:45** Vladimir Dobričić, The Faculty of Pharmacy University of Belgrade, Serbia  
Synthesis, physico-chemical and biological properties of acridine derivatives
- 09:45 – 10:10** Dr sci. med. Tijana Štajner, NRL for Toxoplasmosis, Institute for Medical Research, Serbia  
Reinvention of the diagnostic algorithm and treatment options for reactivated toxoplasmosis – ToxoReTREAT project
- 10:10 – 10:30** Dr med. Olivera Lijeskić, NRL for Toxoplasmosis, Institute for Medical Research, Serbia  
Monitoring of reactivated toxoplasmosis in allogeneic HSCT recipients
- 10:30 – 10:50** **Coffee break**
- 10:50 – 11:10** Dr sci. med. Jelena Srbljanović, NRL for Toxoplasmosis, Institute for Medical Research, Serbia  
Experimental chemotherapy of reactivated toxoplasmosis
- 11:10 – 11:30** MrPharm Đorđe Zlatković, NRL for Toxoplasmosis, Institute for Medical Research, Serbia  
Cell toxicity and anti-T. gondii efficacy of de novo synthesized acridine derivatives
- 11:30 – 11:50** Dr sci. Anđelija Ilić, Institute of Physics Belgrade, Serbia  
Cyst recognition in microscopic slides: Estimation of Toxoplasma gondii brain cyst size and location
- 11:50 – 12:10** MSc Jelena Trajković, Institute of Physics Belgrade, Serbia  
Computational image analysis of developmental dynamics and morphological characteristics of tachyzoites

**Workshop 5    Research opportunities at large scale user facilities - Program**

- 09:00-09:30**    Cormac McGuinness  
*Neutrons and Photons Elevating Worldwide Science (NEPHEWS) – Trans-National Access for Excellent Curiosity Driven Research*
- 09:30-10:00**    Ivana Radosavljevic Evans  
*Writing Successful Proposals for Beamtime at Large Facilities: Before, During and After the Experiment*
- 10:00-10:30**    Mads Ry Vogel Jørgensen  
*Material Science using MAX IV – the First 4th Generation Synchrotron Source*
- 10:30-10:50**    **Coffee Break**
- 10:50-11:20**    John S.O. Evans  
*Insight on Functional Materials from Parametric Scattering Studies at Large Scale User Facilities*
- 11:20-11:50**    Matthias J. Gutmann  
*Opportunities At the ISIS Spallation Neutron Source*
- 11:50-12:20**    Milan Radovic  
*Spectroscopy at the Synchrotron, Microscopy of the Quantum World*
- 12:20-14:15**    **Lunch Break**
- 14:15-14:45**    Michael Gensch  
*(Quantum) Materials in high Terahertz Fields*
- 14:45-15:15**    Mikhail Feygenson  
*Future Research Opportunities at European Spallation Source*
- 15:15-15:45**    Zurab Guguchia (online)  
*Muon Spin Rotation: Principles of the Technique and Applications in Quantum Materials Research*
- 15:45-16:05**    **Coffee Break**
- 16:05-16:35**    Gustavo A. Garcia  
*Photoelectron Circular Dichroism: From Model Molecular Systems to Nanoparticles*
- 16:35-17:05**    Fernando Igoa Saldaña  
*High-energy diffraction and scattering for physics and chemistry at PETRA III*
- 17:05-17:35**    Cormac McGuinness  
*Observing On-Surface Synthesis of Novel Nanostructures by High Resolution Synchrotron Based X-ray Spectroscopies: Chiral Graphene Nanoribbons and Porphyrin Networks*
- 17:35-17:45**    Closing remarks