

## PROGRAM AT A GLANCE

### Wednesday, May 10<sup>th</sup>

|               |                                   |
|---------------|-----------------------------------|
| 11:00 – 12:30 | Registration                      |
| 12:30 – 13:50 | Lunch                             |
| 13:50 – 14:00 | Opening ceremony                  |
| 14:00 – 15:30 | INVITED TALKS                     |
| 15:30 – 16:00 | Coffee break                      |
| 16:00 – 17:30 | INVITED TALKS                     |
| 17:30 – 18:00 | Sponsor presentations             |
| 18:30 – 20:00 | Dinner                            |
| 20:00 – 22:00 | Poster session and social program |

### Thursday, May 11<sup>th</sup>

|               |                                                        |
|---------------|--------------------------------------------------------|
| 7:30 – 8:50   | Breakfast                                              |
| 9:00 – 10:30  | INVITED TALKS                                          |
| 10:30 – 11:00 | Coffee break                                           |
| 11:00 – 12:20 | INVITED TALKS                                          |
| 12:30 – 14:00 | Lunch                                                  |
| 14:00 – 18:30 | Excursion to Planica and High-altitude training center |
| 18:30 – 22:00 | Dinner and social program                              |

### Friday, May 12<sup>th</sup>

|               |                                  |
|---------------|----------------------------------|
| 7:30 – 8:50   | Breakfast                        |
| 9:00 – 10:30  | INVITED TALKS                    |
| 10:30 – 11:00 | Coffee break                     |
| 11:00 – 12:00 | INVITED TALKS                    |
| 12:00 – 12:20 | Closing ceremony and group photo |
| 12:30 – 14:00 | Lunch                            |
| 14:00         | Departure                        |

## PROGRAM

### WEDNESDAY, MAY 10<sup>th</sup>

|               |              |
|---------------|--------------|
| 11:00 – 12:30 | Registration |
| 12:30 – 13:50 | Lunch        |

#### Session 1 (chairman: Alenka Vesel)

|               |                                                                                                                                             |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 13:50 – 14:00 | Opening ceremony                                                                                                                            |
| 14:00 – 14:30 | <b>Matjaž Panjan</b> (INVITED TALK)<br>PLASMA SELF-ORGANIZATION IN RF AND DC MAGNETRON SPUTTERING DISCHARGES                                |
| 14:30 – 15:00 | <b>Domen Paul</b> (INVITED TALK)<br>A STUDY OF HETEROGENEOUS SURFACE RECOMBINATION OF OXYGEN ATOMS ON AN OXIDIZED NICKEL SURFACE            |
| 15:00 – 15:30 | <b>Jernej Ekar</b> (INVITED TALK)<br>TOF-SIMS AND H <sub>2</sub> ATMOSPHERE: REDUCTION OF MATRIX EFFECT AND IMPROVEMENTS IN DEPTH PROFILING |
| 15:30 – 16:00 | Coffee break                                                                                                                                |

#### Session 2 (chairman: Nikša Krstulović)

|               |                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16:00 – 16:30 | <b>Tihomir Knezević</b> (INVITED TALK)<br>SILICON DIODES WITH 2D INTERFACIAL LAYERS USING PHYSICAL OR CHEMICAL VAPOR DEPOSITION OF NANOMETER-THIN AMORPHOUS BORON          |
| 16:30 – 17:00 | <b>Virna Kisiček</b> (INVITED TALK)<br>SECOND HARMONIC GENERATION PROBING OF ANTIFERROMAGNETIC DOMAINS IN MAGNETOELECTRICS                                                 |
| 17:00 – 17:30 | <b>Naveen Singh Dhami</b> (INVITED TALK)<br>ELECTRONIC AND CRYSTAL STRUCTURE STUDY OF NON-CENTROSYMMETRIC EuTGe <sub>3</sub> (T=Co, Rh, AND Ir) UNDER HYDROSTATIC PRESSURE |
| 17:30 – 18:00 | Sponsor presentations                                                                                                                                                      |
| 18:30 – 20:00 | Dinner                                                                                                                                                                     |
| 20:00 – 22:00 | Poster session and social program                                                                                                                                          |

## PROGRAM

### THURSDAY, MAY 11<sup>th</sup>

#### Session 3 (chairman: Miha Čekada)

|               |                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 – 8:50   | Breakfast                                                                                                                                     |
| 9:00 – 9:30   | <b>Jure Mravlje</b> (INVITED TALK)<br>LOW-PRESSURE COLD PLASMA FOR EFFECTIVE FUNGAL DECONTAMINATION OF BUCKWHEAT GRAINS                       |
| 9:30 – 10:00  | <b>Matej Hočevár</b> (INVITED TALK)<br>BIOCOMPATIBILITY IMPROVEMENT OF STAINLESS STEEL SURFACE BY LASER FUNCTIONALIZATION IN ARGON ATMOSPHERE |
| 10:00 – 10:30 | <b>Niharika Rawat</b> (INVITED TALK)<br>ANTIBACTERIAL TiO <sub>2</sub> NANOSTRUCTURED SURFACES USING THE HYDROTHERMAL METHOD                  |
| 10:30 – 11:00 | Coffee break                                                                                                                                  |

#### Session 4 (chairman: Ita Junkar)

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|---------------|----------------------------------------------------------------------------------------------------------------------------------|
| 11:00 – 11:30 | <b>Pia Starič</b> (INVITED TALK)<br>NOVEL COMBINATION OF COLD PLASMA AND GRAIN PRIMING TO ENHANCE MINERAL COMPOSITION OF SPROUTS |
| 11:30 – 12:00 | <b>Paula Pongrac</b> (INVITED TALK)<br>MULTI-ELEMENT DISTRIBUTION ANALYSIS IN PLANTS                                             |
| 12:00 – 12:20 | <b>Igor Mekjavić</b><br>INTRODUCTION OF HIGH-ALTITUDE TRAINING CENTER IN PLANICA                                                 |
| 12:30 – 14:00 | Lunch                                                                                                                            |
| 14:00 – 18:30 | Excursion to Planica and High-altitude training center                                                                           |
| 18:30 – 22:00 | Dinner and social program                                                                                                        |

## PROGRAM

**FRIDAY, MAY 12<sup>th</sup>, 2023**

Session 5 (chairman: Janez Kovač)

|               |                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 7:30 – 8:50   | Breakfast                                                                                                                                      |
| 9:00 – 9:30   | <b>Ana Senkić</b> (INVITED TALK)<br>MICROSCOPIC INVESTIGATION OF INTRINSIC DEFECTS IN CVD GROWN MoS <sub>2</sub> MONOLAYERS                    |
| 9:30 – 10:00  | <b>Ida Delač</b> (INVITED TALK)<br>EXPLORING THE INFLUENCE OF SOLVENTS AND ADSORBED ORGANIC MOLECULES ON THE PROPERTIES OF 2D MoS <sub>2</sub> |
| 10:00 – 10:30 | <b>Tadeja Kosec</b> (INVITED TALK)<br>CHARACTERIZATION OF 9-YEAR OLD PATINAS ON BARE AND ARTIFICIALLY PATINATED BRONZE IN AN URBAN ENVIRONMENT |
| 10:30 – 11:00 | Coffee brake                                                                                                                                   |
| 11:00 – 11:30 | <b>Toni Dunatov</b> (INVITED TALK)<br>APPLICATIONS OF MeV ION BEAMS IN MATERIAL ANALYSIS AND MODIFICATION                                      |
| 11:30 – 12:00 | <b>Maria Kolympadi Marković</b> (INVITED TALK)<br>SURFACE FUNCTIONALIZATION BY PULSED VAPOR PHASE CLICK REACTIONS                              |
| 12:00 – 12:20 | Closing ceremony and group photo                                                                                                               |
| 12:30 – 14:00 | Lunch                                                                                                                                          |
| 14:00         | Departure                                                                                                                                      |

PROGRAM

POSTER SESSION

| Number | Title, Authors                                                                                                                                                                                                           |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P1     | SLIDING PROPERTIES OF URINARY CATHETERS COATED WITH ALGINATE AND CHITOSAN<br><u>Alenka Vesel</u> , Nina Recek, Rok Zaplotnik, Berti Kurinčič, Katja Kuzmič, Lidija Fras Zemljič                                          |
| P2     | INACTIVATION OF VIRUSES IN WATER VIA LOW-PRESSURE PLASMA IRRADIATION<br><u>Mark Zver</u> , David Dobnik, Rok Zaplotnik, Miran Mozetič, Arijana Filipič, Gregor Primc                                                     |
| P3     | COLD PLASMA-MOUSE SKIN INTERACTION<br><u>Andrea Jurov</u> , Špela Kos, Tanja Blagus, Ivana Sremački, Gregor Filipič, Nataša Hojnik, Anton Nikiforov, Maja Čemažar, Gregor Serša, Uroš Cvelbar                            |
| P4     | ELECTROCHEMICAL CHARACTERISATION OF MATERIALS USED FOR STIMULATING ELECTRODES<br><u>Vedran Đerek</u> , Aleksandar Opančar                                                                                                |
| P5     | PHOTOCATALYSIS OF METHYLENE BLUE AND DIAZEPAM USING LASER SYNTHESIZED BLACK TiO <sub>2</sub> NANOPARTICLES UNDER IRRADIATION WITH UV AND VISIB<br><u>Nikša Krstulović</u> , Damjan Blažeka, Ivana Grčić, Andreja Gajović |
| P6     | TUNING MoS <sub>2</sub> BAND STRUCTURE: HOW SELF-INTERCALATION AFFECTS SCREENING, INTERACTIONS AND STRAIN<br><u>Iva Šrut Rakić</u> , Borna Pelić, Matko Mužević, Dino Novko, Marko Kralj, Carsten Busse                  |
| P7     | ACCURATE EDS AND WDS MEASUREMENTS OF B, N AND P IN Si AND SiGe-BASED MATRIX<br><u>Barbara Šetina Batič</u> , Emmanuel Nolot                                                                                              |
| P8     | GOLD ON GLASS AS A SAMPLE FOR THE CALIBRATION OF HOLOGRAPHIC 3D MAPPING<br><u>Mario Rakić</u> , Borna Radatović, Ali Mardan Dezfouli, Denis Abramović, Ida Delač, Iva Šrut Rakić, Hrvoje Skenderović                     |
| P9     | LASER SYNTHESIS OF ZnO-Ag HETEROJUNCTION NANOPARTICLES AND ITS APPLICATION IN PHOTOCATALYSIS UNDER SOLAR IRRADIATION<br><u>Rafaela Radičić</u> , Andrea Jurov, Janez Zavašnik, Nikša Krstulović                          |
| P10    | IMPACT OF VACUUM ON PHASE TRANSFORMATIONS AND ELECTRICAL PROPERTIES IN (L-TARTRATO)OXOVANADIUM(IV) COMPLEX SALT<br>Marko Duantov, <u>Lidija Androš Dubraja</u>                                                           |
| P11    | IMPROVED HEMOCOMPATIBILITY OF MEDICAL STAINLESS STEEL (SS316L)<br><u>Metka Benčina</u> , Ita Junkar, Janez Kovač, Aleš Iglič, Veronika Kralj-Iglič, Alenka Vesel                                                         |
| P12    | DEPOSITION AND CHARACTERIZATION OF REFRACTORY HIGH-ENTROPY ALLOYS<br><u>Žan Gostenčnik</u> , Aljaž Drnovšek, Matjaž Panjan, Miha Čekada                                                                                  |
| P13    | CONTACT TEMPERATURE ANALYSIS IN BALL-ON-DISC TESTING AT ROOM AND HIGH TEMPERATURES<br><u>Matej Drobnič</u> , Vladimir Terek, Miha Čekada                                                                                 |