

**PROGRAM****Registration 8:00-9:00****Open Ceremony 9:00-9:30****Plenary section – part I**

9:30-10:00 dr. Nejc Hodnik (*Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Ljubljana, Slovenia*)

SPOT THE DIFFERENCE AT THE NANOPARTICLES: IDENTICAL LOCATION ELECTRON MICROSCOPY

10:00-10:30 dr. Primož Jovanovič (*Department of Catalysis and Chemical Reaction Engineering, National Institute of Chemistry, Ljubljana, Slovenia*)

ELECTROCATALYSTS STABILITY INVESTIGATION BY ELECTROCHEMICAL FLOW CELL ANALYTICS

Coffee break 10:30-11:00**Plenary section – part II**

11:00-11:30 dr. Martin Šala (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*)

POTENTIAL OF MASS SPECTROMETRY IN ELECTROCHEMISTRY

11:30-12:00 dr. Ana Kroflič (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*)

ELECTROCHEMISTRY IN ATMOSPHERIC CHEMISTRY

12:00 to 14:00 Lunch break + group photo + tour of the *Institute Ruđer Bošković***Section 1: Electrochemical processes and mechanisms**

14:00-14:15 Kristijan Vidović (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*) **ELECTROCHEMISTRY AS A POWERFUL TOOL FOR MECHANISTIC STUDIES IN CONDENSED-PHASE REACTIONS**

14:15-14:30 Dajana Mikić (*Fakultet kemijskog inženjerstva i tehnologije, Zagreb, Croatia*) **ISPITIVANJE ZAŠTITNIH FILMOVA FOSFONSKE KISELINE NA RAZLIČITIM METALNIM PODLOGAMA PRIMJENOM ELEKTROKEMIJSKE KVARC-KRISTALNE MIKROVAGE**

14:30-14:45 Juraj Nikolić (*Laboratory for Functional Materials, Division of Materials Chemistry, Ruđer Bošković Institute, Zagreb, Croatia*) **IMPEDANCE SPECTROSCOPY: A POWERFUL**

**METHOD FOR ANALYSIS OF ELECTRICAL PROCESSES IN LITHIUM TUNGSTEN PHOSPHATE GLASS-CERAMICS**

14:45-15:00 Martin Rozman (*University of Maribor, Faculty of Chemistry and Chemical Technology*) **LEAD(II) OXIDE ELECTRODEPOSITION BASED ELECTROCHROMIC CELL THAT CAN BE USED IN A SMART WINDOW APPLICATION**

15:00-15:15 Nicole Mesaroš (*Fakultet kemijskog inženjerstva i tehnologije, Zagreb, Croatia*) **ELECTROCHEMICAL SYNTHESIS OF GRAPHENE PAPER FOR ADVANCED ELECTRONIC APPLICATIONS**

15:15-15:30 Matea Raić (*Center of Excellence for Advanced Materials and Sensing Devices, Research Unit New Functional Materials, Zagreb, Croatia & Ruđer Bošković Institute, Division of Materials Physics, Laboratory for Molecular Physics and Synthesis of New Materials*) **NEXT GENERATION ANODES FOR LITHIUM-ION BATTERIES**

15:30-15:45 Nikola Vugrinec (*Fakultet kemijskog inženjerstva i tehnologije, Zagreb, Croatia*) **SUPERCAPACITORS BASED ON CONDUCTING POLYMERS/GRAPHENE COMPOSITES**

Section 2: Corrosion

15:45-16:00 Sanja Renka (*Laboratory for Functional Materials, Division of Materials Chemistry, Ruđer Bošković Institute, Zagreb, Croatia*) **IONIC CONDUCTIVITY IN MIXED-ALKALI ALUMINOPHOSPHATE GLASSES**

16:00-16:15 Ana Kraš (*Fakultet kemijskog inženjerstva i tehnologije, Zagreb, Croatia*) **OPTIMIZATION OF THE PROTECTIVE LAYER OF NON-TOXIC CORROSION INHIBITORS**

16:15-16:30 Marija Tadić (*Fakultet kemijskog inženjerstva i tehnologije, Zagreb, Croatia*) **CROSSLINKING OF SELFASSEMBLED COATINGS USING IONISING IRRADIATION**

Coffee break 16:30-16:45**Section 3: Electroanalysis**

16:45-17:00 Ivana Tomaca (*Zavod za primijenjenu kemiju i ekologiju, Prehrambeno-tehnološki fakultet, Osijek, Croatia*) **ELECTROANALYSIS OF VITAMIN C**

17:00-17:15 Tatjana Šafarik (*Department of Chemistry, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia*) **ELECTROCHEMICAL DETERMINATION OF ASCORBIC ACID ON A SILICA NANOSPHERE/GRAPHENE COMPOSITE MODIFIED GRAPHITE ELECTRODE**

17:15-17:30 Sarah Mateša (*Division for Marine and Environmental Research, Ruđer Bošković Institute, Zagreb, Croatia*) **ELECTROANALYTICAL METHODS IN CHARACTERIZATION OF AQUEOUS ENVIRONMENT**



17:30-17:45 Jelena Isailović (*Department of Analytical Chemistry, National Institute of Chemistry, Ljubljana, Slovenia*) **ELECTROCHEMICAL SENSORS FOR SECURITY AND ENVIRONMENTAL APPLICATIONS**

17:45-18:00 Ana Rebeka Kamšek (*Department of Materials Chemistry, National Institute of Chemistry*) **ATOMIC FORCE MICROSCOPY AND ITS USE IN ELECTROCHEMISTRY**

18:00-18:15 Arnaud Chapoulié (*ENSICAEN, École nationale supérieure d'ingénieurs de Caen, Caen, France*) **APPLICATION OF Cu(II) ION-SELECTIVE ELECTRODE (Cu-ISE) FOR Cu SPECIATION IN COASTAL WATERS**

18:00 Closing ceremony + farewell party

