

# **International Conference "Students for Students"**

## **XVIIIth edition SCHEDULE**

**Wednesday - the 6th of April 2022 (ONLINE)**

10:00 - Official Opening

10:30 - Plenary Session: **Prof. Dr. Eng. Paul Şerban AGACHI** - *Perspectives of a chemical industry in Botswana*

11:30 - Coffee Break

11:50 - Scientific Session: Flash Presentations

11:50 - *Air quality monitoring system based on IoT technologies* - **Melinda SZÁROZ**

11:58 - *Synthesis of novel heterocyclic systems via N-N bond formation mediated by hypervalent iodine agent* - **Maria POPESCU**

12:06 - *Methylene blue analogues used as oxygen sensors for food packaging* - **Darius-Andrei SĂRAC**

12:14 - *Hydrazone-based macrocycles as hosts for organic small-molecules* -

**Nicoleta SANDU**

12:22 - *Alternative procedures for the green synthesis of Methylene Blue analogues* -

**Eduard-Andrei CEZAR**

12:30 - *Electrochemical study of potential drugs with 1,3,4-oxadiazole scaffold* -

**Maria-Lorena JINGA**

12:38 - *Cadmium detection in water samples using a fiber optic -surface plasmon resonance sensor* - **Bianca ŞOLOMONEA**

12:46 - *Synthesis and morpho-structural characterization of cerium (IV) oxide nanoparticles obtained in different pH environments* - **Lenuța Nastasia RĂZVANȚĂ**

12:50 - Break

13:10 - Scientific Session: Chemistry + Chemical Engineering

13:10 - *Highly hydrophobic silane coatings for metallic surface protection against corrosion* - **Alexandru SFETCU**

13:25 - *Synthesis and optoelectronic properties of novel N-acylhydrazones* -

**Andreea OANEA**

13:40 - *Toward the synthesis of a highly strained helical banister-type carbon nanohoop* - **Ioan STROIA**

13:55 - *Transfer of pollutant transport modelling knowledge from River Swale to River The Cut (UK)* - **Mihaela BOROTA**

14:10 - *Sterically Stabilized End-On Superoxocopper(II) Complexes and their reactivity with O-H, N-H, and C-H Substrates* - **Shoba LAXMI**

14:25 - *Electrochemistry of drugs in middle phase microemulsion* - **Irena VINTILĂ**

14:40 - Break

15:00 - Discussion Session with the Employers: **Adrian BODAN** - **Azomureş**

16:00 - Plenary Session: **Prof. Dr. Eng. Zoltan NAGY** - **Quality-by-control (QbC) and Digital-Design Approaches for Process Intensification in Advanced Pharmaceutical Manufacturing**

19:00 - Social Activity

## **Thursday - the 7th of April 2022 (HYBRID)**

10:00 - Plenary Session: **Acad. Prof. Cristian SILVESTRU** - *Organometallic chemistry of heavy pnictogens (Sb, Bi) at CCSOOM – FCIC (1993 – present) – from unusual structures to potential uses*

11:00 - Coffee Break

11:20 - Scientific Session: Chemistry + Chemical Engineering

11:20 - *On the trail of restoring the function of oncogenic KRAS mutants* - **Ildikó**

**SÓLYOM**

11:35 - *Lipase T6 from Geobacillus stearothermophilus: expression, purification, immobilization and application within the kinetic resolution of 1-(benzo[b]thiophen-2-yl) ethanol* - **Paul-Cristian MARȚIAN**

11:50 - *Dynamic modelling of CO<sub>2</sub> absorption process using hollow fiber membrane contactors* - **Alexandru-Constantin BOZONC**

12:05 - *Analysis of the hydrogen production process using biogas with high CO<sub>2</sub> concentrations* - **Alessandra-Diana SELEJAN**

12:20 - Lunch Break

13:00 - Scientific Session: Chemistry + Chemical Engineering

13:00 - *Synthesis and structural characterization of new diorganochalcogen(II) compounds* - **Cosmina Maria Florina BOHAN**

13:15 - *Novel silver(I) complexes of a diorganoselenium ligand with phenylthiazole functionalities. Synthesis, structure and potential applications* - **Maria DAVID**

13:30 - *Raman mapping-based non-destructive dissolution prediction of sustained release tablets* - **Zsiros BOLDIZSÁR**

13:45 - *Synthesis and Characterization of Magneto-Plasmonic CoFe<sub>2</sub>O<sub>4</sub>@SiO<sub>2</sub>@Au multifunctional nanoparticles with applications in bioseparation and biosensing* - **Victor VINȚELER**

14:00 - Break

14:15 - Discussion Session with Researchers: **Flaviu TURCU** - **National Institute for Research and Development of Isotopic and Molecular Technologies**

15:15 - Break

15:30 - Discussion Session with the Employers: **Marius NISTOR** - **Terapia** - Q&A Regarding the Recruitment Process

19:00 - Cocktail Dinner

## **Friday - the 8th of April 2022 (HYBRID)**

10:00 - Plenary Session: **Dr. Georgian MELINTE** - *Advanced transmission electron microscopy approaches for material research*

11:00 - Coffee Break

11:20 - Scientific Session: Chemistry + Chemical Engineering

11:20 - *Evaluating the aromatic character of benzene-like inorganic compounds by means of theoretical calculations* - **Alex-Cristian TOMUȚ**

11:35 - *Computational Investigation of Group 6 Metal Carbonyl Derivates with 2-Propanoneoximato and Related Ligands* - **Theodor Marian DĂNESCU**

11:50 - *Preparation and phase transformation of Mg-doped ZrO<sub>2</sub> bioceramics* - **Claudia Andreea COJAN**

12:05 - *Deepening the  $\sigma$ -hole of antimony in organometallic compounds with pendant arms* - **Rareș George DORNEA**

12:20 - Lunch Break

13:00 - Scientific Session: Chemistry + Chemical Engineering

13:00 - *Synthesis and structural characterization of arylantimony(III) nicotines and isonicotines* - **Alexandru Andrei TOMUȚA**

13:15 - *A greener alternative to conventional sample digestion for fluorimetric determination of selenium* - **Bogdan BOȘCA**

13:30 - *Synthesis of chitosan composites with bioactive glass used in skin regeneration products* - **Alexandru SONICA**

13:45 - *Tailoring the resveratrol release from mesoporous silica-type carriers* - **Simona IONIȚĂ**

14:00 - Break

14:15 - Workshop HR - Self and Professional Development: **Alin FĂRCAȘ, Silvana BRETOIU, Emilia BORTAN** - **Arqes**

17:00 - Discussion Session with the Employers: **Alina NEGRU** - **EMERSON**

19:00 - Social Activity

## **Saturday - the 9th of April 2022 (HYBRID)**

10:00 - Plenary Session: **Dr. Josep CORNELLA** - Bismuth Redox Catalysis

11:00 - Discussion Session with Researchers: **Dr. Josep CORNELLA** - Max-Planck-Institut für Kohlenforschung in Mülheim an der Ruhr

11:40 - Coffee Break

13:10 - Scientific Session: Chemistry + Chemical Engineering

13:10 - *IoT in Chemistry Labs: Implementing Raspberry Pi Sensors* - **Răzvan-Mihai BELAN, Paula-Alicia CĂLINA, Alexandru-George CHEOREAN, Ligia-Valentina CEHAN, Mălina POCLID, Ágnes SZISZE**

13:25 - *Spectroscopic investigation of blood substitutes candidates* - **Jozsef SIMON**

13:40 - *Reactivity of Cobalamin towards Hydrogen Peroxide* - **Ioana-Diana PLEȘA**

13:55 - Lunch Break

14:30 - Scientific Session: Posters

14:30 - *Macroalgae species from the black sea littoral with antioxidant potential* - **Constantin-Teodor NEGREANU-PÎRJOL**

14:40 - *Strategies for obtaining p-tert-butyl-calix[4]arene* - **David BOJTOR**

14:50 - *The efficiency of data pre-processing for honey botanical differentiation through the association of elemental and isotopic profiles and supervised methods* - **Ariana Raluca HĂȚEGAN**

15:00 - Closing Ceremony