



UNIVERSITATEA DE MEDICINĂ  
FARMACIE ȘI ȘTIINȚE FARMACEUTICE  
FACULTATEA DE CHIMIE ȘI INGINIERIE  
FARMACIE ȘI ȘTIINȚE FARMACEUTICE  
BUCUREȘTI



# INTERNATIONAL CONFERENCE “STUDENTS FOR STUDENTS”

26<sup>th</sup> – 30<sup>th</sup> of April 2023



## SCHEDULE





# Wednesday, 26<sup>th</sup> of April 2023

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**10:00** - Official Opening

**10:30** - Plenary Session: Prof. Dr. Habil Radu **SILAGHI-DUMITRESCU** - Transient species in biological metal centers and where to find them

**11:30** - Coffee Break

**11:50** - Scientific Session: Chemistry

**11:50** - Excited state processes in a molecular photoswitch - **Etelka KISS** (online)

**12:00** - Induced Magnetic Field in Carbon Nanorings: In-Plane Aromaticity/Antiaromaticity of [3]-[6]Cycloparaphenylenes - **Ioan STROIA** (online)

**12:15** - Design of Sulfur-based pincer-type ligands for the stabilization of metallylenes - **Iulia CREȚOIU** (online)

**12:30** - Lunch Break

**13:40** - Scientific Session: Chemistry and Chemical Engineering

**13:45** - Organoselenium compounds – synthesis and structural characterization - **Cosmina BOHAN**

**14:00** - Dynamic modeling of CO<sub>2</sub> capture using intercooled absorber column - **Alexandru-Constantin BOZONC**

**14:15** - Synthesis and structural characterization of new diorganoselenides and their silver(I) complexes. Antiproliferative activity assay - **Maria DAVID**

**14:30** - Synthesis and structural characterization of new organotin(IV) compounds with Sn-O-E bonds (E = C, Si) - **Vlad PENCIU**

**14:45** - Coffee Break

**14:55** - Scientific Session: Chemistry and Chemical Engineering

**14:55** - Antiacneic effect of some cosmetic formulations based on Eugenia aromaticum and Foeniculum vulgare essential oil - **Paula-Alicia CĂLINA**

**15:10** - Sulfonated Titanium Carbide MXenes as heterogenous catalysts in neutral hydrolysis of PET - **Tudor ȘUTEU**

**15:25** - Solid phase-FDC1 - activity assay based on fluorescent detection of styrenes - **Cosmina-Maria VANCEA**

**15:40** - Preliminary testing and optimization of suitable encapsulation methods and carriers for Vaccinium spp. bioactive compounds - **Georgiana-Alexandra VINTILĂ**

**18:00** - Cocktail Dinner



# Thursday, 27<sup>th</sup> of April 2023

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**10:30 - Plenary Session: Prof. Dr. Eng.**

**Călin-Cristian CORMOȘ** - Advanced energy conversion systems integrated with Carbon Capture, Utilization and Storage (CCUS) technologies

**11:30 - Coffee Break**

**11:50 - Scientific Session: Chemistry and Chemical Engineering**

**11:50** - Functionalized mesoporous silica nanoparticles as carriers for natural compounds used in topical applications - **Iulia-Ștefania VOICU**

**12:05** - The influence of chemical interface damping in the dehalogenation of 4-chlorothiophenol and 4-bromothiophenol adsorbed on silver nanoparticles - **Oana-Maria BIRO**

**12:20** - Kinetic studies on the gas phase reaction of OH radical with p-tolualdehyde - **Rareș-Georgian MOCANU**

**12:35** - Production and activity assessment of the recombinant PET-degrading LC cutinase - **Blanka-Eszter NAGY**

**12:50 - Lunch Break**

**13:45 - Scientific Session: Chemistry and Chemical Engineering**

**13:45** - New N-aryl acylhydrazones as tunable photoswitches - **Andreea OANEĂ**

**14:00** - Mono- and binuclear complexes of 3d and 4f metal ions with polydentate Schiff base ligands derived from N-(1-naphthyl)ethylenediamine - **Robert BOTEĂ**

**14:15** - Gas-phase kinetic studies on the OH radical initiated oxidation of 2- and 4-nitrotoluene

- **Laurențiu-Gabriel MOVILĂ**

**14:30** - FALL(s)ing for D-amino acids: a chemo-enzymatic cascade for the production of D-phenylalanine analogues - **Arthur-Maximilian BÁTHORI**

**14:45 - Coffee Break**

**14:55 - Scientific Session: Chemistry and Chemical Engineering**

**14:55** - Synthesis and structural characterization of novel organobismuth(III) dihalide - **Octavian CUCU**

**15:10** - Effects of perhalogenated chelating ligands on organoantimony compounds - **Rareș DORNEA**

**15:25** - Tuning aromaticity by substituent effects. A computational study on inorganic benzene-like compounds - **Alex-Cristian TOMUȚ**

**15:40** - Effect of Phosphorus and Nitrogen Heteroatoms on Pentahapto Coordination of Diazaphosphole Ligands in Binuclear Iron Carbonyl Derivatives - **Theodor-Marian DĂNESCU**

**16:00** - Round table with the socio-economical medium

**20:00** - Boardgames night



# Friday, 28<sup>th</sup> of April 2023

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**10:00** - Plenary Session: **Dr. Adrian APETRI** - Untang(o)ling Alzheimer's Disease

**11:00** - Coffee Break

**11:30** - Poster Section

- Novel Aromatic Ammonia Lyases: uncut diamonds with enhanced activity towards challenging L-phenylalanine analogues - **Gyopárka ÁGOSTON**
- TiO<sub>2</sub> in biopolymer-based composites for skin protection - **Emma BOBU**
- Chlorite dismutase: computational study of the mechanism - **Sergiu-Raul COSMA**
- Application of Liteanu's frequentometric approach to estimate the qualitative limit of identification for some alkaline cations - **Sebastian DOROFTEI**
- The IDEAL (Immobilized DEhydrogenase for ALfa-keto-acids) tool for the synthesis of D-amino acids - **András-Ernő ISZLAI**
- DFT explorations of asymmetric (in)organic ethers/amines - **David LUCACI**
- Preparation and characterization of thermal reduced 3D graphene oxide membranes - **Adriana-Flavia LUPEA**
- Protein engineered phenylalanine ammonia lyase from Arabidopsis thaliana: setting the ground for site-specific immobilization - **Andreea SOC & Alexandra BĂLAN**
- Towards the Active-Template Synthesis of N-Heterocyclic Carbene-Based [2]Rotaxanes - **Maria-Mihaela ȘERBAN**

**13:00** - Lunch Break





# Friday, 28<sup>th</sup> of April 2023

## 13:40 - Poster Section

- Synthesis and photophysical analysis of phenothiazine-based symmetric and non-symmetric curcuminoids and their boron complexes - **Kis BALÁZS-ÁKOS**
- Synthesis of the alkylfluorene derivatives and study of their photophysical properties - **Levente BIRÓ**
- Chemical interface damping of surface plasmon resonance in silver nanoparticles: effects of amino acid and thiol molecules adsorption - **Alexandra-Maria CHIRIAC**
- Assessment of Raman enhancement of water soluble carotenoids by metal nanoparticles - **Georgiana ION**
- Analysis of the pH dependence of Ferryl Myoglobin reactivity using UV-Visible spectrometry - **Georgiana-Lavinia PĂDUREAN**
- Determination of electrophoretic mobilities on agarose for some dyes and their correlation with theoretically predicted values - **Petruț MIRON**
- The role of diphosphaalkenyl derivatives with  $P(III)=C-P(V)$  groups for stabilising coordinative compounds - **Mihai RUJA**
- Oldies but Goldies: Exploring an Ancestral L-amino acid oxidase towards unnatural L-phenylalanine analogues - **Marcel URSU**
- Mathematical modeling of the production process of polyvinyl alcohol, polylactic acid and polycaprolactone nanofibers by electrospinning process - **Atád VÉSZI**

## 15:10 - Coffee Break

## 15:30 - Scientific Session: Chemistry and Chemical Engineering

- 15:30 - Preliminary study of the influence of sweeteners on the bioavailability of polyphenols in lingonberry jams - **Sânziana-Maria VARODI**
- 15:45 - Solid-Phase Synthesis of an Epoxysuccinyl Functionalized Peptide as a Potential Activity-Based Probe for Cathepsin B - **Daniel-Vasile TODEREL**
- 16:00 - Synthesis of alkyl enol ethers - **Sámuel NAGY-GYÖRGY**
- 16:15 - Bismuth(III) carboxylates - **Alexandru TOMUȚA**
- 16:30 - Monitoring and control of rheological proprieties of impression materials - **Laura-Elena GRIGORAȘ & Iustina-Mihaela PAVĂL**
- 16:45 - Closing Ceremony
- 20:00 - Quiz night

