
5th George Olah Conference

*XXI Conference of the George Olah
Doctoral School*

12 September 2023



5th George Olah Conference

12 September 2023

Program

EVENT VENUE: BME CH201

8³⁰ **Opening**

ORAL PRESENTATIONS

Chairman: Dr. Alfréd Kállay-Menyhárd

8³⁵-9⁰⁵ **Dr. Mihalovits Levente** – Computational characterization of covalent enzyme inhibition – Invited lecturer, George Olah Prize winner in 2022

9⁰⁵-9³⁵ **Dr. Béla Kelemen** – Beyond oil and Gas Energy, the Engine of Our Life – Invited lecturer from MOL Group

9³⁵-9⁵⁵ **Dr. Dóra Tátraaljai** – Invited lecturer from the Department of Physical Chemistry and Materials Science

9⁵⁵-10¹⁵ **Dr. Botond Szilágyi** – Invited lecturer from the Department of Chemical and Environmental Process Engineering

10¹⁵-10³⁵ **Coffee Break**

Chairman: Prof Dr. László Poppe

10³⁵-10⁵⁵ **Dr. Vince Bakos** – Invited lecturer from the Department of Applied Biotechnology and Food Science

10⁵⁵-11¹⁵ **Dr. Hajnalka Pataki** – Invited lecturer from the Department of Organic Chemistry and Technology

11¹⁵-12⁰⁰ **Prof. Dr. Csaba Paizs** – Insides in pure and applied biocatalysis – Invited lecturer from Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Cluj-Napoca, Romania

12⁰⁰-13⁰⁰ **Break**

13⁰⁰-14⁰⁰ Poster session – 2nd floor**Jury: Dr. Ákos Sveiczler, Dr. Miklós Kubinyi, Dr. Ágnes Szanyi, Dr. Erika Bálint, Dr. János Madarász**

P01	Viktória Berta Perey-Simon	The crystallization of zebrafish dUTPase with its interaction partners
P02	Petra Záhonyi	Continuous granulation of drug-loaded electrospun amorphous solid dispersion
P03	Dóra Arany	Experimental investigation of melting point depression under carbon dioxide
P04	Niloofar Bayat	Synthesis and Thermal Analysis of Cobalt Complexes Followed by Characterization of Decomposition Product
P05	Bálint Alács	Selective Immobilization and Application of PcPAL Enzyme
P06	Milán Ferdinánd	Factors and Process Determining the Impact Resistance of heterophasic PP Copolymers
P07	Lajos Madarász	Image Analysis: A promising multi-purpose pharmaceutical quality control tool
P08	József Szemes	Investigation of increasing the efficiency of Cariprazine TACE-intermediate production by isomerization reactions catalyzed by transaminases

P09	Gabriella Muskovics	Recent progress in reference material development for gluten quantitation
P10	József Gergely Stankovits	Poly(amino acid)-mucin interactions: the role of the charge density
P11	Gergely T. Solymosi	Understanding the Potentiometric Response of Hydrophilic Permselective Nanopores
P12	Balázs Orbán	Acetylene and ethylene adsorption on iron clusters and nanoparticles and the effect of sulfur poisoning
P13	Lucy Nyambura Karanja	Preparation and Characterization of Plant extract Biochar Composite for Control of Bacterial wilt diseases

STUDENTS' ORAL PRESENTATIONS

Section A – CH201

Chairman: Dr. László Hegedűs

14⁰⁰-14¹⁵ **Orsolya Péterfi** – Real-time particle size measurement using convolutional neural network-aided endoscopic imaging

14¹⁵-14³⁰ **Kata Buda** – Xylanase production by *Cellulomonas phragmiteti*

14³⁰-14⁴⁵ **Fausto Macgyver Wanderley Gouveia Silva** – Immobilization of Lipase B from *Candida antarctica* on Magnetic Nanoparticles Enhances Its Selectivity in Kinetic Resolutions of Chiral Amines with Several Acylating Agents

14⁴⁵-15⁰⁰ **Pradeep Kumar** – Food waste: causes and implications

15⁰⁰-15¹⁵ **Thuy Tien Nguyen Thanh** – Intumescent Flame Retardant Systems: Challenges and Opportunities

15¹⁵-15³⁵ **Coffee Break**

Section B – CH201

Chairman: Prof. Dr. László Poppe

15³⁵-15⁵⁰ **Juan Hidalgo** – Multiwalled carbon nanotubes modified glassy carbon electrodes as a platform for sensing diclofenac sodium

15⁵⁰-16⁰⁵ **János Béri** – Semi-continuous hydrothermal monomer recovery of Poly(Bisphenol A carbonate)

16⁰⁵-16²⁰ **Máté Ficzer** – Investigating the surface of tablets utilizing artificial intelligence

16²⁰-16³⁵ **Dóra Varga** – The Possible Connection of Ferroptosis and the JNK Pathway

16⁵⁰ **Closing – CH201**