

Maria Curie-Skłodowska University in Lublin
Faculty of Chemistry, Institute of Chemical Sciences
Polish Chemical Society

Łukasiewicz Research Network – New Chemical Syntheses Institute
The John Paul II Catholic University of Lublin, Institute of Biological Sciences



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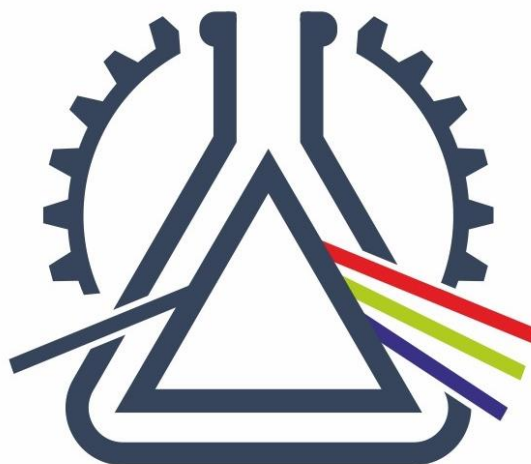
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Agenda
of International Conference
Science and industry – challenges and opportunities
June 24-26, 2025, Lublin - Pulawy

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Mgr Emil Zięba (KUL)

Important information

The conference takes place at:

24.06.2025 - building of the Institute of Computer Science, 9 Akademicka St., 3rd floor, room 332
(entrance to the building from 2 M. Curie-Skłodowska Sq., between the buildings of the Department of Chemistry and the Department of Mathematics, Physics and Computer Science),

25.06.2025 - Puławski Park Naukowo-Technologiczny, 1 Mościckiego St., Puławy,

26.06.2025 - The John Paul II Catholic University of Lublin, Knowledge Transfer Centre,
7 Radziszewskiego St., CTW-113 (1st floor)

Registration of participants and collection of conference materials
will be held in the conference office (Institute of Computer Science, 3rd floor)
on **24.06.2025 from 8:00**

The **poster session** will be held on **24.06.2025**
from 14:30 to 15:30 (lobby, 3rd floor),

Please hang up your posters in advance before 13:30.

Best poster competition announced – **24.06.2025** at 15.30, room 332

Lunches:

24.06.2025 - restaurant „Bazylika“, 4a Maria Curie-Skłodowska Sq., Lublin
(building of Faculty of Languages, Literatures and Cultures)

25.06.2025 - Puławski Park Naukowo-Technologiczny, 1 Mościckiego St., Puławy

26.06.2025 - KULuary Smaków, 7 Radziszewskiego St., 20-400 Lublin

The **conference dinner** will be held on **24.06.2025**
from 19:00 to 23:30 at the Mecure Hotel,
12 Raclawickie Ave., Lublin

„Trip to Kazimierz Dolny“ – excursion on **25.06.25** from 16:00 to 21:45
(registration at the conference office)

Departure by bus to Puławski Park Naukowo-Technologiczny, 1 Mościckiego St.,
on **25.06.25** at 9:00 from the Mercure Hotel, 12 Raclawickie Ave., Lublin

June 24, 2025	
Institute of Computer Science, 9 Akademicka St., Lublin, 3rd floor, room 332	
8:00 – 9:00	Registration
9:00 – 9:15	Opening ceremony
Session Chair: prof. dr hab. Dorota Kołodyńska, UMCS	
9:15 – 9:45	<u>Anna K. Przybył</u>, Alona Mintianska, Ewa Krystkowiak Bifunctional cytosine squaramides – synthesis and spectroscopic analysis
9:45 – 10:15	<u>Tomasz Ruman</u>, Joanna Nizioł Direct 3D mass spectrometry imaging
10:15-10:30	<u>Anna Stachniuk</u>, Paulina Marzec, Alicja Trzpil, Natalia Kasałka-Czarna, Magdalena Montowska, Emilia Fornal Optimization of trypsin digestion time for the LC-MS identification of peptide markers to discriminate chicken liver in processed foods
10:30 – 11:00	Coffee break
Session Chair: dr hab. Monika Wawrzekiewicz, UMCS	
11:00 – 11:15	<u>Klaudia Morawska</u>, Cecylia Wardak, Karolina Hermańska A new type of nitrate ion-selective electrode – the application of perinone polymer-based hybrid material as an intermediate layer
11:15 – 11:30	<u>Damian Gorylewski</u>, Katarzyna Tyszczyk-Rotko, Aleksy Keller, Katarzyna Staniec, Aleksandra Liwak Voltammetric procedures for simultaneous determination of Cd(II) and Pb(II) at the trace concentration level via composite electrode materials based on magnetic nanoparticles
11:30 – 11:45	<u>Tomasz Pańczyk</u>, Marcin Cichy, Monika Pańczyk Surface composition of nanoplastic polyethylene and polystyrene particles obtained through degradation reactions occurring in water using reactive molecular dynamics
11:45 – 12:00	<u>Bożena Czech</u>, Artur Sokołowski The fate of phthalate acid esters in the soil-vegetable system
12:00 – 13:30	Lunch, Coffee break
Session Chair: prof. dr hab. Dorota Kołodyńska, UMCS	
13:30 – 13:45	<u>Aleksandra Dmitrowicz</u>, Agnieszka Kierys, Agnieszka Siedlecka, Łukasz Zbucki, Andrzej Sienkiewicz Screening method for differentiation of plastic and non-plastic microparticles contaminating store-bought rice
13:45 – 14:00	<u>Maria Powęzka</u>, Sylwia Pasieczna-Patkowska, Mariusz Barczak Incorporation of magnetic particles with amino functionalities into alginate matrices to improve mechanical properties of the resulting magnetic hydrogels
14:00 – 14:15	<u>Urszula Ryszko</u>, Piotr Rusek, Krzysztof Borowik, Dorota Kołodyńska Comparative assessment of cation exchangers for cadmium removal from wet-process phosphoric acid in industrial applications
14:15 – 14:30	<u>Zuzanna Abdeldayem</u>, Tomasz Runka, Karolina Olszewska, Anita Kaliszewicz, Kamil Karaban Microplastic identification in Nile waters in the Luxor area – Raman spectroscopy study
14:30 – 15:30	Poster session
15:30 – 15:45	Best poster competition announced
19:00 – 23:30	Conference dinner, Hotel Mercure, 12 Raclawickie Ave., Lublin

June 25, 2025 Puławski Park Naukowo-Technologiczny, 1 Mościckiego St., Puławy	
10:00 – 10:30	Opening coffee
10:30 – 10:45	Conference opening in Łukasiewicz-INS
Session Chair: dr hab. Paweł Kowalik	
10:45 – 11:15	Katarzyna Antoniak-Jurak, Wiesław Próchniak, Anna Mrozek, Paweł Kowalik Key challenges for modern industrial catalysis – Łukasiewicz-INS approach
11:15 – 11:45	Magdalena Regel-Rosocka Urban mining: a sustainable solution for critical metal supply
11:45 – 12:00	Weronika Hein, Magdalena Emmons-Burzyńska, Magdalena Regel-Rosocka Green methanesulfonic acid for valuable metals recovery from e-waste
12:00 – 12:15	Krzysztof Borowik , Sebastian Schab, Piotr Rusek Valorising anaerobic digestates into bio-fertilisers for climate friendly agriculture
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12:30 – 13:00	Wiktoria Stachowicz, Martyna Rzelewska-Piekuć, Katarzyna Siwińska-Ciesielczyk, Magdalena Regel-Rosocka Catalytically active bio-inspired platinum-based nanomaterials: search for Pt supports and materials characterization
13:00 – 13:15	Alicja Drozd, Urszula Ryszko, Jarosław Ostrowski ICP-OES as an alternative technique for determination of macroelements, microelements and contaminations in organic and organo-mineral fertilizers
13:15 – 13:30	Aleksandra Bińczak, Agnieszka Myka, Renata Łyszczek Evaluation of the functional properties of ammonium nitrate fertilizers with addition of polyhalite
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15:00 – 15:15	Grygoriy Dmytriv, Nazar Pavlyuk, Vasyl Kordan, Oksana Zelinska, Viktoria Milashius, Vitaliy Nytko, Volodymyr Pavlyuk Metal hydrides: from research to startup
15:15 – 15:30	Bohdan Korotoshyn, Roman Gladyshevskii From binary to ternary Nowotny chimney-ladder phases
15:30 – 15:45	Tülay Koç Delice, Gülşah Türker, Belma Soydaş Sözer Recovery of critical metals from secondary sources: selective solvent extraction and pilot-scale validation study from fluorescent lamp waste
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June 26, 2025 The John Paul II Catholic University of Lublin, Knowledge Transfer Centre, 7 Radziszewskiego St., CTW-113 (1st floor)	
Session Chair: dr hab. Robert Mroczka	
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9:45 – 10:00	Ilona Sadok, Kinga Ożga Targeting the kynurenine pathway in digestive system cancers
10:00 – 10:15	Agnieszka Krzyszczak-Turczyn, Marta Grochowicz, Ilona Sadok Challenges in mycotoxins determination in highly pigmented fruits
10:15 – 10:30	Ewa Paszkowska, Steen Larsen, Paulina Choinska, Karolina Pietrowska, Michał Ciborowski Study of the molecular mechanisms of statin-induced myalgia with untargeted metabolomics
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