



80th International Scientific
Conference of the
University of Latvia 2022



Faculty of Chemistry
Ķīmijas fakultāte
Analytical Chemistry
Analītiskā ķīmija

Friday, 11 February 2022, 13.00 AM, online

Zoom saite: <https://lu-lv.zoom.us/j/92927719891?pwd=aHVUS1JBL2dtbkIKYkpIbWtRT3pLdz09>

Meeting ID: 929 2771 9891 Passcode: 423469

Programma/Programme

12.25–13.00	Pusdienu pārtraukums, diskusijas/Lunch break, discussions online	
12.50–13.00	Connecting to the meeting	
Vadītājs/Chair: Prof. Arturs Vīksna; Vietnieks/co-Chair: prof. Vadims Bartkevičs		
13.00–13.15	Sergejs Osipovs <i>Daugavpils University, Department of Applied Chemistry</i>	Temperature Effect on the Yield of Methane from Bog Sludge and Reed Raw Materials Sergejs Osipovs, Aleksandrs Pučkins
13.15–13.30	Krišs D. Labsvārds <i>University of Latvia, Faculty of Chemistry; Institute of Food Safety, Animal Health and Environment "BIOR"</i>	Determination of Latvian Honey Floral Origins Using IRMS, UHPLC-HRMS, ICP-MS, FTIR And 1H-NMR Krišs Dāvids Labsvārds, Vita Rudoviča, Jānis Ruško, Rihards Klūga, Lauma Buša, Māris Bērtiņš, Ineta Eglīte, Jevgeņija Naumenko, Marina Šalajeva, Arturs Vīksna
13.30–13.45	Māris Bērtiņš <i>University of Latvia, Faculty of Chemistry</i>	Impact of Amino Acid Containing Fertilizer on Elemental and Isotopic Content in Spruce and Pine Stands Māris Bērtiņš, Lauma Buša, Dagnija Lazdiņa, Kārlis Dūmiņš, Signija Zaķe, Māris Kļaviņš, Arturs Vīksna
13.45–14.00	Ance Bārzdiņa <i>Rīga Stradiņš University, Department of Pharmaceutical Chemistry</i>	The Opportunities and Challenges of Chemical Profiling of Herbal Extracts Using Chromatographic Analysis Ance Bārzdiņa, Artūrs Paulausks, Agnese Brangule
14.00–14.15	Elīna Pasečnaja <i>University of Latvia, Faculty of Chemistry; Institute of Food Safety, Animal Health and Environment "BIOR"</i>	Dietary Exposure Assessment to Perfluoroalkyl Substances Elīna Pasečnaja, Dzintars Začs
14.15-14.35	Coffee break, discussions	

14.35–14.50	Daniela Godiņa <i>University of Latvia, Faculty of Chemistry; Biorefinery Laboratory, Latvian State Institute of Wood Chemistry</i>	Characterisation of Suberinic Acids and their Potential Applications Daniela Godiņa
14.50–15.05	Matīss Pāls <i>University of Latvia, Faculty of Chemistry; Laboratory of Lignin chemistry, Latvian State Institute of Wood Chemistry</i>	Separation of Black Alder Bark Extracts Using Solid Phase Extraction to Obtain Fractions with Improved Properties Matīss Pāls, Māris Lauberts, Jevgenija Ponomarenko, Alexandr Arshanita
15.05–15.20	Lauma Buša <i>University of Latvia, Faculty of Chemistry</i>	Discrimination Between Conventionally and Organically Fertilized Grains by FTIR and 1H-NMR Spectroscopy Combined with Chemometrics Lauma Buša, Karīna Taranda, Arturs Vīksna, Rihards Klūga
15.20–15.35	Georgijs Baškirovs <i>University of Latvia, Faculty of Chemistry; Institute of Horticulture, Dobele</i>	Isolation of Four Tocotrienol Homologues and Plastochromanol-8 from Plant Oils and the Rapid 'Green' Analysis of Nine Tocochromanols in Cold-pressed Plant Oils via Superficially Porous Particle Packed Column Technology and Supercritical Fluid Chromatography Georgijs Baškirovs, Pawel Gornas
15.35–15.50	Uģis Eismonts <i>University of Latvia, Faculty of Medicine</i>	Synthesis of Iron Hexacyanoferrate Immobilised on Cellulose Acetate for Caesium Sorption from Aquatic Environments Uģis Eismonts, Māris Bērtiņš, Kristīne Saleniece, Olga Muter, Arturs Vīksna, Ingars Reinholds, Andrejs Grīnbergs
15.50–16.05	Vitālijs Lazarenko <i>University of Latvia, Institute of Chemical Physics and Faculty of Chemistry</i>	Investigation of Nanostructured Bi ₂ Se ₃ Thin Films as Anodes for Aqueous Rechargeable Lithium-Ion Batteries Vitālijs Lazarenko, Yelyzaveta Rublova, Raimonds Meija, Jana Andžāne, Vanda Voikiva, Arturs Vīksna, Donāts Erts
16.05–16.20	Āris Jansons <i>University of Latvia, Faculty of Chemistry; Institute of Food Safety, Animal Health and Environment "BIOR"</i>	Recent Trends in Pesticide Analysis by Two-Dimensional Liquid Chromatography - Mass Spectrometry Āris Jansons, Vadims Bartkevičs
16.20–17.--	Noslēgums, diskusijas Conclusions, discussions	