



51th

*International Conference of
the Slovak Society of
Chemical Engineering*

May 27 - 30
2025

CONFERENCE **PROGRAM**

Demänovská Dolina
Slovakia

#SSCHE2025



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Head of Institute of Chemical and Environmental Engineering, STU in Bratislava, SK

Prof. Juma HAYDARY

Head of Department of Chemical and Biochemical Engineering, STU in Bratislava, SK

Program of the 51st International Conference of SSCHE

Jasná, Demänovská Dolina, May 27 - 30, 2025

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Editors: Assoc. Prof. Mário Mihaľ

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Slovak University of Technology in Bratislava, SK
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Slovak University of Technology in Bratislava, SK
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Ing. Barbora DUDÁŠOVÁ
Viliam RIZMAN

ADDRESS

Institute of Chemical and Environmental Engineering
Faculty of Chemical and Food Technology
Slovak University of Technology in Bratislava
Radlinského 9, 812 37 Bratislava
Slovak Republic
email: sschi@sschi.sk

Program

Tuesday

08:00–20:00 **Arrival of participants**

16:50–18:00 **GRAND A1, Conference opening; Plenary lecture**

16:50 **Conference opening**

17:15 A New Era in Olefin Metathesis: Catalysis Towards a Sustainable Future (*Tuba, R.**)

18:00–20:00 **Dinner**

20:00–23:00 **Poster session; Welcome drink**

- 1 Advanced methods for the assessment of waste elastomer fillers (*Szigeti, M.*, Simon-Stöger, L., Varga, C.*)
- 2 Anaerobic digestion as a solution for biowaste treatment in Slovakia (*Danielič, M.*, Variny, M.*)
- 3 Analysis of chemical process response to the deviation of multiple input parameters (*Myšiak, J.*, Labovský, J., Jelemenský, L.*)
- 4 Antibiotic Efficacy Against *Pseudomonas aeruginosa* Biofilms: Synergistic Role of Allicin in Chronic Respiratory Infections (*Nováková, N.*, Maršík, D., Maťátková, O., Kašpar, O., Tokárová, V.*)

- 5 Binding of Polyclonal Antibodies on a Multimodal Membrane Adsorbents (*Rupčíková, V.**, *Kurák, T.*, *Polakovič, M.*)
- 6 Biodegradable active substances release systems (*Gnatowski, P.**, *Kucińska-Lipka, J.*)
- 7 Biodegradation of Ibuprofen Salt in SBR Reactor with Activated Sludge under Aerobic Conditions (*Gloc, M.*, *Paździor, K.*, *Mrozínska, Z.*, *Żyłła, R.*, *Ledakowicz, S.**)
- 8 CFD-assisted experimental analysis and optimization of air quality in production space (*Zelenka, P.**, *Váňová, L.*, *Kášpar, O.*)
- 9 Comparative Study of Membrane Processes for Lithium Carbonate Production: Electrodialysis vs. Donnan dialysis (*Fehér, J.**)
- 10 Dark fermentation of liquid after hydrothermal treatment of kitchen waste (*Domíńska, M.**, *Paździor, K.*, *Ślęzak, R.*, *Ledakowicz, S.*)
- 11 DECARBONIZATION STUDIES IN DISTILLATION COLUMNS (*Hribik, D.**, *Variny, M.*)
- 12 Design of reactive spray absorption column for decarbonization of flue gas (*Halabuk, L.**, *Hribik, D.*, *Markoš, J.*, *Jelemenský, E.*)
- 13 Development of Microrobots Using Stop-flow Lithography for Mechanostimulation of Encapsulated Cells (*Mamedova, A.*, *Zlatník, J.*, *Řehoř, I.*, *Rothbauer, M.*, *Heidenberger, J.*, *Tokárová, V.**)
- 14 EFFECT ON SURFACTANT SOLUTION STABILITY OF HIGH SALINE BRINE WATER (*Gerbovits, D.**, *Nagy, R.*, *Puskás, S.*)
- 15 Enhanced taxanes production by *Taxus* x media hairy roots in cultures supported with hybrid silica-chitosan aerogel-based materials (*Pilarek, M.**, *Wierzchowski, K.*, *Bober, S.*, *Nowak, B.*, *Sykłowska-Baranek, K.*)
- 16 Enhancing γ -Caprolactone Production via a Multienzyme Cascade in *E. coli*: Impact of Oxygen Transfer and Ethanol as a Competitive Inhibitor (*Holienka, K.**, *Illeová, V.*, *Polakovič, M.*)
- 17 Enzymatic synthesis of L-phenylserine in a semi-continuous microfluidic system (*Vobecká, L.**, *Slouka, Z.*, *Přibyl, M.*)
- 18 Evaluation of biofouling rate of polypropylene water filters doped with composites of silver nanoparticles on halloysite (*Stor, M.**, *Krasiński, A.*, *Kryszczyńska, K.*)

- 19 Flow Chemistry for the Enantioselective Synthesis of Chiral Cyanohydrins (*Lambarska, A. *, Hanefeld, U., Szymańska, K.*)
- 20 Formulation and characterization of curcumin loaded oil marbles for improved delivery (*Brejchová, A. *, Hintnausová, K., Králová, E., Štěpánek, F.*)
- 21 Fuels production from liquids after hydrothermal carbonization of kitchen waste methane fermentation step (*Paździor, K. *, Domińska, M., Ślęzak, R., Ledakowicz, S.*)
- 22 Green and white method for the determination of selected essential and toxic elements in vegetable and meat-based samples by small-sized electrothermal vaporization capacitively coupled microplasma optical emission spectrometry and combustion-assisted digestion (*Covaci, E. *, Mot, A., Dudu, A., Frentiu, T.*)
- 23 How can we study tuberculosis using microfluidic chip? (*Hupková, R. *, Knejzlík, Z., Tokárová, V.*)
- 24 Hydrogen Strategy for RED III Compliance in a Refinery (*Mócová, M. *, Švistun, L., Variny, M.*)
- 25 Hydrothermal carbonization of slurry after dark fermentation (*Antecka, A. *, Ślęzak, R., Ledakowicz, S.*)
- 26 Hydrothermal liquefaction of kitchen waste and digested sludge (*Ślęzak, R. *, Ledakowicz, S.*)
- 27 Influence of amino acid ionic liquids on morphology and sorption properties of HKUST-1 (*Kroczevska-Gnatowska, M. *, Baluk, M., Esteves, I., Esperança, J., Zaleska-Medynska, A., Łuczak, J.*)
- 28 Intensified naphthoquinone biosynthesis in *Rindera greaca* transgenic roots cultured with hybrid PLA-chitosan scaffolds (*Bober, S. *, Wierzchowski, K., Bandzerewicz, A., Gadomska - Gajadthur, A., Sykłowska-Baranek, K., Pilarek, M.*)
- 29 Limit of detection for Se, Zn, Cu, Cd, Pb, Hg and As determination by white small-sized electrothermal vaporization capacitively coupled microplasma optical emission spectrometry and sample combustion compared to inductively coupled plasma optical emission spectrometry (*Dudu, A. *, Covaci, E., Mot, A., Frentiu, T.*)
- 30 Microstructured PDMS surfaces for bacterial adhesion control (*Kříž, F., Nguyen, V. *, Tokárová, V.*)
- 31 Mini-tablets with Personalized Dissolution, Prepared by Fluid-Bed Granulation of Drug Nanosuspensions (*Mutylo, E. *, Navrátil, O., Waněk, A., Šembera, F., Štěpánek, F.*)

- 32 Modeling and Experimental study of LOHC systems based on toluene mixtures (*Tomasek, S.**, *Egedy, A.*, *Tóth, I.*, *Lovas, L.*)
- 33 Modeling of Mass Transfer through an Ion-Exchange Membrane in Lithium Recovery by Donnan Dialysis (*Tomášik, M.**, *Markoš, J.*, *Červeňanský, I.*, *Hlavatý, L.*)
- 34 Modelling and Simulation of Reaction-Separation Processes using gPROMS ProcessBuilder (*Fedor, A.**, *Gaborčík, J.*, *Paulen, R.*)
- 35 Modelling Material Flow in Wastewater Treatment Using Automated Methods (*Valiyeva, K.**, *Chávez Fuentes, J.*, *Variny, M.*)
- 36 Multicriteria analysis of various CCS Technologies (*Michálek, P.**, *Variny, M.*)
- 37 Multi-fidelity Modeling for Process Optimization in Refinery Operations (*Fáber, R.**, *Vaccari, M.*, *Bacci di Capaci, R.*, *Lubušký, K.*, *Pannocchia, G.*, *Paulen, R.*)
- 38 Numerical method of testing the flow parameters of positive pressure ventilators on the ISO 5801 test stand (*Kaczmarzyk, P.**, *Małozieć, D.*, *Ziegler, B.*)
- 39 Optimization of lavender essential oil extraction: Method comparison and identification of key parameters (*Preiner, S.**, *Rippelne Pethő, D.*, *Miskolczi, N.*)
- 40 Optimization of reaction parameters by factorial design for the enzymatic synthesis of natural aroma esters (*Dudu, A.**, *Paizs, C.*, *Tosa, M.*)
- 41 Optimization of the permeation unit for advanced cell culture: Hostile territory for Caco-2 cells? (*Pritts, D.**, *Klimša, V.*, *Beránek, J.*, *Štěpánek, F.*)
- 42 Optimizing Freeze-Dried Drug Nanosuspensions: Role of Freezing Rate and Excipients (*Klimša, V.**, *Chvíla, S.*, *Ruphuy Chan, G.*, *Štěpánek, F.*)
- 43 Ozonation-based processes for removal of Aminoglycoside antibiotic from wastewaters (*Žgajnar Gotvajn, A.**, *Derco, J.*, *Čehovin, M.*)
- 44 Preparation of Ag colloidosomes from Pickering emulsions stabilized by mercaptocarboxylated Ag nanoparticles (*Terada, A.**, *Harada, A.*, *Naoe, K.*)
- 45 Preparation of nanofibrous catalysts for catalytic oxidation of volatile organic compounds by electrospinning (*Balabánová, J.**, *Topka, P.*, *Šolcová, O.*, *Soukup, K.*)

- 46 Purification of flue gas by new non-porous membranes (*Žitková, A.**, *Izák, P.*, *Bothová, K.*, *Stanovský, P.*)
- 47 Purification of post fermentation broths applying microalgae. (*Kucharska, K.**, *Strzelczyk, I.*, *Gębicki, J.*)
- 48 Selectivity coefficients of ion exchange membranes and method of their determination (*Lovrantová, K.*, *Tomek, J.*, *Václavíková, N.**)
- 49 Spray-drying of inhalable prodrug-enzyme systems with antibacterial properties (*Mašková, L.**, *Kalina, M.*, *Slonková, K.*, *Kášpar, O.*)
- 50 Testing the Biodegradation of Diclofenac: Towards a Sustainable Environment (*Gloc, M.**, *Paździor, K.*, *Mrozińska, Z.*, *Żyłła, R.*, *Ledakowicz, S.*)
- 51 The application of -D- galactosidase from *Bifidobacterium bifidum* in the synthesis of galactooligosaccharides (*Brzozowski, B.*, *Adamczak, M.**)
- 52 The effect of microplastics on the ozonation of wastewater and wastewater containing amoxicillin (*Jurík, J.**, *Bodík, I.*, *Zakhar, R.*, *Žgajnar Gotvajn, A.*, *Legan, M.*)
- 53 The effect of phytoextracts obtained from *Cistus incanus* on the growth of lactic acid bacteria (*Kobryń, K.*, *Adamczak, M.**, *Brzozowski, B.*)
- 54 There is something in the air: an overview of allicin-based antibacterial materials (*Mašková, L.*, *Lizoňová, D.*, *Zelenka, P.*, *Tokárová, V.*, *Kášpar, O.**)
- 55 Thermochemical conversion modelling of multilayer packaging waste using Aspen Plus (*Khurram, A.**, *Escudero Sanz, F.*, *Carrier, M.*, *Haydary, J.*)
- 56 Valorization of Charry Pit Waste: Efficient Oil Extraction for Biodiesel Production (*Knežević-Jugović, Z.**, *Jakovetić Tanasković, S.*, *Šekuljica, N.*, *Boroš, K.*, *Manou, D.*, *Skoufi, M.*, *Dajić Stevanović, Z.*)
- 57 Yeast -glucan particles and composition of their core (*Fatka, P.**, *Zavřel, F.*, *Hanuš, J.*, *Štěpánek, F.*)

22:45–23:00 GRAND A1, Poster awards

Wednesday

08:00–09:30 GRAND A1, Plenary lectures

- 08:00 Separation of enantiomers by membrane processes (*Izák, P.**)
- 08:45 Replacement of trichloroethylene in the extraction of crude caprolactam (*Obalová, L.*, Leštinský, P., Maršolek, P., Vaštyl, J., Koumar, J., Korpas, J., Maxa, M.*)
- 09:30 Coffee break

10:00–12:40 GRAND A1, Lectures: Separation processes and transport phenomena

- 10:00 Enzyme synthesis and continuous flow separation of (R)-1-phenylethanol in a modular microfluidic system (*Sauer, L.*, Příbyl, M.*)
- 10:20 Green analytical strategies for selenium determination using chromatographic and spectrometric methods (*Mot, A.*, Covaci, E., Boşca, B., Dudu, A., Frentiu, T.*)
- 10:40 Intensification of Separation Processes in a Model Electrodialysis Unit (*Pagáč, J.*, Slouka, Z., Láznicka, V., Tichý, D.*)
- 11:00 Ion concentration polarization for separation of charged species (*Slouka, Z.*, Tichý, D., Škrhák, M.*)
- 11:20 Mathematical modeling of an ion transfer in a donnan dialysis process via nernst-planck equation (*Hlavatý, L.*, Sedlák, L., Komačková, E., Červeňanský, I., Markoš, J.*)
- 11:40 Reaction transport phenomena at ion-exchange membranes in DC electric field (*Láznicka, V.*, Slouka, Z.*)
- 12:00 Removal of organic acids from fermentation broth by pertraction hollow fiber membrane module (*Mihaľ, M.*, Červeňanský, I., Markoš, J.*)
- 12:20 Use of multifiber membrane module for lithium recovery (*Sedlák, L., Komačková, E., Droščínová, L., Fehér, J., Hlavatý, L., Markoš, J.*, Červeňanský, I.*)

08:50–12:10 GRAND B2, Prednášky: Riešenia pre energetickú transformáciu priemyslu (SK industry section)

08:50 Otvorenie priemyselnej sekcie

09:00 Aktuálne otázky plynárenstva na Slovensku (*Kvasňovský, R.**)

09:15 Nový stavebný zákon (*Sadloňová, M.**)

09:35 Coffee break

10:10 Čo je to energetická transformácia priemyslu? (*Buchan, V.**)

10:30 Tepelné čerpadlá: Dekarbonizácia a efektívne využitie odpadového tepla (*Jurovich, M.**)

10:50 Elektrifikace procesního tepla: Cesta k bezemisnímu průmyslu (*Tesař, F.**)

11:10 Dekarbonizácia prepravy vďaka riešeniam s pridanou hodnotou (*Kamenský, R.**)

11:30 Linda - Vývoj a implementácie elektronických prevádzkových záznamov pre vybrané energetické prevádzky v závode Volkswagen Slovakia (*Chávez Fuentes, J.**)

11:50 Monitoring priebehu krátkodobého prietoku oleja hydraulického lisu v oceliarskom priemysle pomocou ultrazvukového monitora prietoku (*Ilko, J.*, Mudrá, M.*)

12:00–14:00 Lunch

14:00–17:00 GRAND A1, Lectures: Bioprocess and biotechnology

14:00 Biocompatibility of ionic liquids and their recovery from aqueous solutions (*Schlosser, Š.*, Krištofiková, E., Marták, J., Annus, J., Polakovič, M.*)

14:20 Development and optimization of chromatographic methods for the separation of recombinant tau proteins (*Kotuličová, S.*, Molnár, T., Majerová, P., Kováč, A., Polakovič, M.*)

- 14:40 Enzymatic hydrolysis efficiency of different industrial hemp biomass fractions: A comparative study of two cultivars (*Karpiński, G.**, *Dąbkowska-Suszał, K.*, *Januszewski, J.*, *Pilarek, M.*, *Krzysztoforski, J.*)
- 15:00 Impact of substrates and deep eutectic solvents on thermal stability and biocatalytic properties of beta-galactosidase during transglycosylation (*Košuthová, A.**, *Antošová, M.*, *Bauerová-Hlinková, V.*, *Bauer, J.*, *Polakovič, M.*)
- 15:20 Intensified Sustainable Approaches for Separation of Glutaric Acid (*Thakre, A.*, *Shende, D.*, *Wasewar, K.**)
- 15:40 Silica-based aerogels as functional materials supporting transgenic root proliferation and bioactive metabolite production (*Wierchowski, K.**, *Nowak, B.*, *Kawka, M.*, *Bober, S.*, *Syklowska-Baranek, K.*, *Pilarek, M.*)

16:00 Coffee break

- 16:20 Sustainable Separation of Bio-Carboxylic Acids using Deep Eutectic Solvents (*Thakre, A.*, *Shende, D.*, *Wasewar, K.**)
- 16:40 Biochemical processes of lignocellulosic biomass conversion (*Ledakowicz, S.**)

17:00–18:20 GRAND A1, Lectures: Energy transition and circular economy

- 17:00 Hydrogen Position in the Energy Transition: Analysing the Competitiveness of Low-Emission Technologies (*Polakovičová, D.*, *Variny, M.**)
- 17:20 Implementation of desalination technology in ammonium thiosulfate manufacturing (*Turinič, N.**, *Variny, M.*, *Buchan, V.*)
- 17:40 Modelling metal deposition on a 3D electrode in a hybrid flow battery: Validation by microcomputed tomography imaging (*Blahušek, V.**, *Gráf, D.*, *Staś, J.*, *Bureš, M.*, *Zubov, A.*, *Mazúr, P.*)
- 18:00 Comparison between Ni/ZSM-5 and NiMo/AlO Catalysts in the Hydrocracking of FischerTropsch Wax Reflected in the Properties of Middle Distillates (*Horváth, D.**, *Tomasek, S.*)

14:00–17:20 GRAND B2, CVaV workshop: Priemyselné emisie a ESG: Riešenia z praxe (SK industry workshop)

16:00–16:20 Coffee break

19:00–03:00 Conference party

Thursday

08:40–11:40 GRAND A1, Lectures: Pharmaceutical engineering and processes

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|--------------|---|
| 08:40 | An Introduction to the Stochastic Nature of Nucleation in Freeze-Drying (<i>Filčáková, A.*</i> , <i>Krošláková, S.</i> , <i>Annus, J.</i> , <i>Rajniak, P.</i>) |
| 09:00 | Computational insight to observed collective phenomena of lipid membrane permeation (<i>Císařová, T.*</i> , <i>Lněnička, J.</i> , <i>Balouch, M.</i> , <i>Štěpánek, F.</i> , <i>Berka, K.</i>) |
| 09:20 | Development of advanced methodology for in vitro testing of long-acting injectable depot systems (<i>Nagy, O.*</i> , <i>Balouch, M.</i> , <i>Štěpánek, F.</i>) |
| 09:40 | Drug permeability: commonly misinterpreted bioavailability governing factor (<i>Balouch, M.*</i> , <i>Storchmannová, K.</i> , <i>Berka, K.</i> , <i>Štěpánek, F.</i>) |
| 10:00 | Coffee break |
| 10:20 | Encapsulation in Liposomes and the Critical Role of the Encapsulated Substance (<i>Roudný, M.*</i> , <i>Balouch, M.</i> , <i>Hanuš, J.</i> , <i>Štěpánek, F.</i>) |
| 10:40 | Experimental and theoretical investigation of spray drying: What can happen in single droplets (<i>Rajniak, P.*</i>) |
| 11:00 | Multi-physics problems in particulate engineering 3 case studies (<i>Sínka, C.*</i>) |
| 11:20 | Development and Optimization of a Continuous Liquid Anti-solvent Precipitation Device for Nanocrystalline Formulations (<i>Hládek, F.*</i> , <i>Nagy, O.</i> , <i>Smrcka, D.</i> , <i>Štěpánek, F.</i>) |

11:40–12:00 GRAND A1, Lecture: Process design and process intensification

11:40 Production of carboxylic acids from organic waste via electro-fermentation: selectivity, recovery and electrochemical upgrading opportunities (*Koók, L.**, *Rózsenszki, T.*, *Kovács, S.*, *Kucsera, K.*)

09:00–11:20 GRAND B2, Emerson workshop: Emerson industrial innovations (SK industry workshop)

12:00–14:00 Lunch

14:00–16:40 GRAND A1, Lectures: Environmental chemical engineering

14:00 Evaluation of the influence of additives in model mixtures on the quality of pyrolysis products (*Klemencova, K.**, *Grycová, B.*, *Strakosova, J.*, *Lestinsky, P.*)

14:20 Exegesis of Potential of Ionic Liquid for Absorption of Carbon dioxide (*Athankar, K.**)

14:40 Ex-situ tar elimination during densified refuse-derived fuel (d-RDF) gasification (*Nazari, M.**, *Koritár, M.*, *Haydary, J.*)

15:00 Magnesium Recovery from Brine via Reactive Membrane Crystallization Using Hollow-Fiber Modules (*Komačková, E.*, *Sedlák, L.*, *Hlavatý, L.*, *Červeňanský, I.**, *Markoš, J.*)

15:20 Optimization of thermochemical conversion feedstock parameters for an integrated waste (bio)refinery (*Koritár, M.**, *Nazari, M.*, *Haydary, J.*)

15:40 Coffee break

16:00 Reuse of quaternary treated wastewater for agricultural irrigation, reality or fantasy? (*Jurík, J.**, *Zakhar, R.*, *Takács, F.*, *Bodík, I.*, *Kalina, A.*, *Rácik, M.*)

16:20 Start your research with LRI ENREGAT! (*Grycová, B.**, *Obalová, L.*)

16:40–17:40 GRAND A1, Lectures: Digitalization and process control

- 16:40 Chemical process response analysis to single and multiple input parameter deviations. (*Myšiak, J.**, *Labovský, J.*, *Jelemenský, L.*)
- 17:00 Reinforcement learning for chemical process control (*Szatmári, K.**, *Németh, S.*, *Kummer, A.*)
- 17:20 Why we waste the time of educated people on trivial activities - how to know more by doing less (*Krzyzostaniak, M.**)
- 17:40 Closing of the conference**
- 18:00–20:00 Dinner**

Friday

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- 08:00–12:00 Departure of participants**

List of Participants

Czechia

Balabánová, Jana, Praha, ÚCHP AV ČR
Balouch, Martin, Prague, University of Chemistry and Technology, Prague
Blahušek, Vojtěch, Prague, University of Chemistry and Technology Prague
Brejchová, Adéla, Prague 6, University of Chemistry and Technology Prague
Breznen, Marek, Opava, TAPI Czech Industries s.r.o.
Císařová, Terezie, Praha 6, UCT Prague
Fatka, Petr, Prague, University of Chemistry and Technology
Fehér, Jakub, Stráž pod Ralskem, MemBrain
Grycová, Barbora, Ostrava, Institute of Environmental Technology, CEET, VSB - TUO
Hládek, Filip, Prague, University of Chemistry and Technology
Hupková, Romana, Prague, University of Chemistry and Technology
Izák, Pavel, Praha 6, ÚCHP AV ČR
Kašpar, Ondřej, Prague, University of Chemistry and Technology Prague
Klemencova, Katerina, Ostrava, Institute of Environmental Technology, VSB - Technical University of Ostrava
Klimša, Vojtěch, Prague, University of Chemistry and Technology Prague
Kostelka, Rastislav, Ostrava, TAPI s.r.o.
Lázníčka, Václav, Prague, University of Chemistry and Technology in Prague
Mašková, Lucie, Praha, Department of Chemical Engineering, University of Chemistry and Technology, Prague, Czech Republic
Mutylo, Elizaveta, Prague, UCT Prague
Nagy, Oliver, Praha 6, UCT Prague
Nguyen, Viet Tomáš, Prague, University of Chemistry and Technology
Nováková, Nina, Prague, University of Chemistry and Technology Prague
Obalová, Lucie, Ostrava, Institute of Environmental Technology, CEET, VSB-Technical University of Ostrava
Pagáč, Jan, Prague, University of Chemistry and Technology Prague
Pritts, Doreen, Praha, University of Chemistry and Technology, Prague

Roudný, Martin , Prague, University of Chemistry and Technology, Prague
Sauer, Lukáš, Prague, University of Chemistry and Technology
Slouka, Zdenek, Prague, UCT Prague
Tesař, Filip, Brno, Exergie Česká republika s.r.o.
Tokárová, Viola, Prague, Department of Chemical Engineering, University of Chemistry and Technology, Prague, Czech Republic
Václavíková, Natália, Stráž pod Ralskem, MemBrain s.r.o.
Vobecká, Lucie, Praha 6, University of Chemistry and Technology Prague
Zelenka, Pavel, Prague, University of Chemistry and Technology Prague
Žitková, Andrea, Praha, ÚCHP AV ČR, v.v.i.

France

Khurram, Abdul Rehman, Albi, CNRS UMR 5203, Université de Toulouse, IMT Mines Albi

Hungary

Gerbovits, Ditta Adrienn, Veszprém, 1University of Pannonia, Faculty of Engineering, Department of MOL Hydrocarbon and Coal Processing
Horváth, Dominik, Veszprém, University of Pannonia
Koók, László, Veszprém, University of Pannonia
Preiner, Sára, Veszprém, University of Pannonia
Szatmári, Kinga, Veszprém, University of Pannonia, Department of Process Engineering
Szigeti, Marton, Veszprem, University of Pannonia
Tomasek, Szabina, Veszprem, University of Pannonia
Tuba, Robert, Budapest, Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences

India

Athankar, Kanti Kumar, Indore, IPS Academy Institute of Engineering & Science, Department of Chemical Engineering
Wasewar, Kailas, Nagpur, Visvesvaraya National Institute of Technology VNIT Nagpur INDIA

Japan

Naoe, Kazumitsu, Yamato-Koriyama, Nara, Dept. of Chem. Eng., National Institute of Technology, Nara College

Terada, Ayumu, Yamato-koriyama city, Nara prefecture, Department of Chemical Engineering, National Institute of Technology, Nara College

Poland

Adamczak, Marek, Olsztyn, Department of Process Engineering, Equipment and Food Biotechnology, University of Warmia and Mazury in Olsztyn

Antecka, Anna, Lodz, Lodz University of Technology

Bober, Szymon, Warsaw, Faculty of Chemical and Process Engineering, Warsaw University of Technology

Cichon, Maksym, Piotrków Trybunalski, Emerson Polska Sp. z o.o. Sp. k.

Domińska, Marlena, Lodz, Lodz University of Technology, Faculty of Process and Environmental Engineering, Lodz, Poland

Gloc, Martyna, Lodz, Lodz University of Technology, Faculty of Process and Environmental Technology

Gnatowski, Przemysław, Gdańsk, Department of Polymer Technology, Faculty of Chemistry, Gdańsk University of Technology

Kaczmarzyk, Piotr, Jozefow, CNBOP-PIB

Karpiński, Grzegorz, Warszawa, Faculty of Chemical and Process Engineering, Warsaw University of Technology

Krasiński, Andrzej, Warsaw, Warsaw University of Technology, Faculty of Chemical and Process Engineering

Kroczevska-Gnatowska, Malwina, Gdańsk, Gdańsk University of Technology

Kucharska, Karolina, Gdańsk, Gdańsk University of Technology

Lambarska, Aleksandra, Gliwice, Department of Chemical Engineering and Process Design, Faculty of Chemistry, Silesian University of Technology

Ledakowicz, Stanisław, Lodz, Lodz University of Technology

Paździor, Katarzyna, Lodz, Lodz University of Technology, Faculty of Process and Environmental Engineering, Lodz, Poland

Pilarek, Maciej, Warsaw, Warsaw University of Technology, Faculty of Chemical and Process Engineering

Ślęzak, Radosław, Lodz, Lodz University of Technology, Faculty of Process and Environmental Engineering

Stor, Michał, Warsaw, Warsaw University of Technology, Faculty of Chemical and Process Engineering

Wierzchowski, Kamil, Warsaw, Warsaw University of Technology Faculty of Chemical and Process Engineering

Romania

Covaci, Eniko, Cluj-Napoca, Babes-Bolyai University

Dudu, Adrian, Cluj Napoca, Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Frentiu, Tiberiu, Cluj-Napoca, Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Mot, Augustin, CLUJ-NAPOCA, Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Serbia

Knežević-Jugović, Zorica, Belgrade, Faculty of Technology and Metallurgy

Slovakia

Adásek, Martin, Humenné, MECOM GROUP s.r.o.

Baláž, Peter, Ružomberok, Mondi SCP, a.s.

Brežný, Maroš, Považská Bystrica, BREMADA, s.r.o.

Buchan, Vladimír, Leopoldov, Centrum výskumu a vývoja, s. r. o.

Červeňanský, Ivan, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology

Chávez Fuentes, Juan José, Bratislava, VOLKSWAGEN SLOVAKIA, a.s.

Dálik, Peter, Bratislava – Vajnory, HACH LANGE s.r.o.

Danielič, Martin, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava

Dudášová, Barbora, Bratislava, FCHPT STU

Fáber, Rastislav, Bratislava, Slovak University of Technology in Bratislava

Fedor, Adam, Poprad, STU FCHPT

Filčáková, Anna, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava

Gaborčík, Jakub, Bratislava, Fakulta chemickej a potravinárskej technológie STU v Bratislave

Gál, Lukáš, Bratislava, Slovak University of Technology

Habánek, Matúš, Ružomberok, Mondi SCP, a.s.

Halabuk, Lukáš, Bratislava, Department of Chemical and Biochemical Engineering

Hanus, Kristián, Bratislava, SLOVNAFT, a.s.

Hlavatý, Lukas, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava

Holienka, Karol, Bratislava, Department of Chemical and Environmental Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology

Hribík, Dušan, Bratislava, Department of Chemical and Biochemical Engineering
Ilko, Ján, Bratislava, Emerson - Flexim
Janoško, Michal, Bratislava, D-Ex Instruments, s.r.o.
Janošovský, Ján, Leopoldov, Centrum výskumu a vývoja, s. r. o.
Jenčová, Irena, Bratislava, EURACTIV Slovensko
Jurík, Jakub, Bratislava, Department of Environmental Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava
Jurovich, Michal, Bratislava, Volkswagen Slovakia, a.s.
Kamenský, Radovan, Bratislava, OMV Slovensko, s.r.o.
Karkeszová, Klaudia, Leopoldov, Centrum výskumu a vývoja, s. r. o.
Kebisek, Michal, Ruzomberok, Mondi SCP
Kebísková, Miroslava, Ruzomberok, Mondi SCP
Koritár, Matej, Bratislava, Institute of Chemical and Environmental Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology
Koššuthová, Alžbeta, Bratislava, Department of Chemical and Environmental Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology
Kotuličová, Simona, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology
Krafčík, Martin, Bratislava – Vajnory, HACH LANGE s.r.o.
Krzyzostaniak, Marcin, Bratislava, Mettler-Toledo, s.r.o.
Kvasňovský, Richard, Bratislava, Slovenský plynárenský a naftový zväz
Markoš, Jozef, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology
Michálek, Tomáš, Prievidza, 5m solution
Michálek, Patrik, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava
Mihal, Mário, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology
Mócová, Martina, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava
Myšiak, Juraj, Bratislava, Institute of Chemical and Environmental Engineering, FCHPT STU
Nazari, Mohammad Ali, Bratislava, Institute of Chemical and Environmental Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava
Paulen, Radoslav, Bratislava, Slovak University of Technology in Bratislava
Pipíška, Igor, Leopoldov, Centrum výskumu a vývoja, s. r. o.
Rajniak, Pavol, Bratislava, Ústav chemického a environmentálneho inžinierstva, FChPT STU

Rizman, Viliam, Bratislava, FChPT STU

Rupčíková, Veronika, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology

Sadloňová, Mária, Bratislava, Eversheds Sutherland, advokátska kancelária, s.r.o.

Sater, Matúš, Ružomberok, Mondi SCP, a.s.

Schlosser, Štefan, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology

Šterdasová, Monika, Bratislava -, Railtrans International, a.s.

Straková, Nina, Ružomberok (okresné mesto), Mondi Ružomberok

Šutor, Martin, Bratislava, Suty Solutions, s.r.o.

Süttő, Tomáš, Ružomberok, Mondi SCP, a.s.

Švistun, Ladislav, Bratislava, Slovnaft, a.s.

Tomášik, Matúš, Bratislava, Department of Chemical and Biochemical Engineering, FChPT, STU

Turinič, Norbert Ferdinand, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology, Slovak university of technology

Vali, Kamil, Šaľa, Duslo, a.s.

Valiyeva, Kamila, Bratislava, Institute of chemical and environmental engineering, Faculty of chemical and food technology, Slovak University of Technology in Bratislava

Variny, Miroslav, Bratislava, Department of Chemical and Biochemical Engineering, Faculty of Chemical and Food Technology, Slovak University of Technology in Bratislava

Vávrová, Jana, Bratislava, Slovnaft

Vestenický, Jozef, Šaľa, Duslo, a. s.

Volek, Róbert, Šaľa, Duslo, a.s.

Zajdenová, Magdaléna, Ružomberok, Mondi SCP, a.s.

Zmajkovič, Jozef, Šenkvice, Energywater s. r. o.

Slovenia

Žgajnar Gotvajn, Andreja, Ljubljana, University of Ljubljana, Faculty of Chemistry and Chemical Technology

United Kingdom

Sinka, Csaba, Leicester, University of Leicester

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