51th

International Conference of the Slovak Society of Chemical Engineering

May 27 - 30
2025

CONFERENCE PROGRAM

Demänovská Dolina
Slovakia

#SSCHE2025

sschi SLOVAK SOCIETY OF CHEMICAL ENGINEERING

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Program of the 51st International Conference of SSCHE

Jasná, Demänovská Dolina, May 27 - 30, 2025

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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-Stőger, 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.*)

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., Kašpar, 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., Kašpar, 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.*, Přibyl, M.*)
10:20	Green analytical strategies for selenium determination using chromatographic and spectrometric methods (*Mot, A.*, Covaci, E., Boșca, B., Dudu, A., Frentiu, T.*)
10:40	Intensification of Separation Processes in a Model Electrodialysis Unit (*Pagáč, J.*, Slouka, Z., Lázníčka, 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 (*Lázníčka, 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 oceliarenskom 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.*, Krištofíková, L., 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-Susfał, 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 (*Koššuthová, 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 (*Wierzchowski, K.*, Nowak, B., Kawka, M., Bober, S., Sykłowska-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**
08:40	An Introduction to the Stochastic Nature of Nucleation in Freeze-Drying (*Filčáková, A.*, Krošláková, S., Annus, J., Rajniak, P.*)
09:00	Computational insight to observed collective phenomena of lipid membrane permeation (*Císařová, T.*, Lněnička, J., Balouch, M., Štěpánek, F., Berka, K.*)
09:20	Development of advanced methodology for in vitro testing of long-acting injectable depot systems (*Nagy, O.*, Balouch, M., Štěpánek, F.*)
09:40	Drug permeability: commonly misinterpreted bioavailability governing factor (*Balouch, M.*, Storchmannová, K., Berka, K., Štěpánek, F.*)
10:00	**Coffee break**
10:20	Encapsulation in Liposomes and the Critical Role of the Encapsulated Substance (*Roudný, M.*, Balouch, M., Hanuš, J., Štěpánek, F.*)
10:40	Experimental and theoretical investigation of spray drying: What can happen in single droplets (*Rajniak, P.**)
11:00	Multi-physics problems in particulate engineering 3 case studies (*Sinka, C.**)
11:20	Development and Optimization of a Continuous Liquid Anti-solvent Precipitation Device for Nanocrystalline Formulations (*Hládek, F.*, Nagy, O., Smrcka, D., Štěpánek, F.*)

11:40–12:00	**GRAND A1, Lecture: Process design and process intensification**
11:40	Production of carboxylic acids from organic waste via electrofermentation: selectivity, recovery and electrochemical upgrading opportunities (*Koók, L.*, Rózsenberszki, 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, Ľ.*)
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

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

List of Participants

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