



Sunday, November 8, 2020

	ROOM A	ROOM B
15:45	Enrico Drioli, Luboš Novák OPENING CEREMONY	
	<i>Chairperson: Jakub Peter</i>	
16:00	Poster session 1 POSTERS P 01 – P 14 (T 01, T 02, T 03, T 04)	
17:10	Break 10'	
17:20	Poster session 2 POSTERS P 15 – P 28 (T 04, T 05, T 06)	
18:30	Break 10'	
18:40	Poster session 3 POSTERS P 29 – P 41 (T 06, T07, T 08, T10, T11)	
19:45		

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Monday, November 9, 2020

	ROOM A	ROOM B
8:15	<p>OPENING CEREMONY Enrico Drioli, Lubos Novak</p>	
	<i>Chaipersons: Enrico Drioli, Luboš Novák</i>	
8:30	<p><u>PL 01 – Ingo PINNAU</u> FUNCTIONALIZED ULTRAMICROPOROUS POLYMERS FOR INDUSTRIAL GAS SEPARATION APPLICATIONS</p>	
	<i>Chairperson: Luboš Novák</i>	<i>Chairperson: Enrico Drioli</i>
9:20	<p><u>KL 01 – Wojciech Kujawski</u> PREPARATION AND PROPERTIES OF NOVEL HYBRID ORGANIC-INORGANIC MEMBRANES DOPED WITH RARE EARTH METAL OXIDES</p>	<p><u>KL 02 – Satyajit Mayor</u> LIFE AT THE CELL'S EDGE: THE CELL SURFACE IS A PROGRAMMABLE MEMBRANE COMPOSITE</p>
9:50	Break, 20'	
	<i>Chairperson: Marek Bryjak</i>	<i>Chairperson: Tomáš Kotala</i>
10:10	<p><u>T 01/SL 01 – S. Jamali Ashtiani</u> INTERFACIAL DESIGN OF MIXED MATRIX MEMBRANES VIA PVA GRAFTING ON UIO-66-NH₂ TO ENHANCE GAS SEPARATION PERFORMANCE</p>	<p><u>T 02/SL 12 – P. Izák</u> FLUE GAS PURIFICATION BY NON-POROUS MEMBRANES</p>
10:30	<p><u>T 01/SL 02 – F. Russo</u> DEVELOPMENT OF UNPRECEDENTED POROUS MATRIMID®5218 MEMBRANES WITH A SUSTAINABLE APPROACH</p>	<p><u>T 02/SL 13 – K. Knozowska</u> INCORPORATION OF MOF-808 TO ENHANCE EFFICIENCY OF PDMS BASED MEMBRANES APPLIED FOR ORGANIC SOLVENT SEPARATION</p>
10:50	<p><u>T 01/SL 59 – G. Genduso</u> FROM BULK TO THIN-FILM — AN EXPERIMENTAL OVERVIEW OF THERMODYNAMIC AND KINETIC EFFECTS RELEVANT FOR GAS TRANSPORT IN MEMBRANES</p>	<p><u>T 02/SL 14 – P. Stanovský</u> WATER-SWOLLEN MEMBRANE FOR FLUE GAS SEPARATION</p>
11:10	Break, 20'	
	<i>Chairperson: Marek Bryjak</i>	<i>Chairperson: Tomáš Kotala</i>
11:30	<p><u>T 01/SL 04 – A. Asadi Tashvigh</u> NOVEL THIN FILM COMPOSITE MEMBRANES WITH UNPRECEDENTED STABILITY UNDER EXTREME PH</p>	<p><u>T 02/SL 15 – J. Kostina</u> SOFT CONTROL OF MATERIAL PROPERTIES VIA NON-COVALENT INTERACTIONS IN SYNTHETIC POLYMERS</p>
11:50	<p><u>T 01/SL 05 – P. Budd</u> PIM-1 RINGING THE CHANGES ON PIM-1</p>	<p><u>T 02/SL 16 – A.Y. Alentiev</u> CHAINS PACKING ORDERING AND GAS SEPARATION PROPERTIES OF X-RAY AMORPHOUS AND SEMICRYSTALLINE GLASSY POLYMERS</p>

12:10	<u>T 01/SL 06 – D. Lebedev</u> GLASS/AU COMPOSITE MEMBRANES WITH GOLD NANOPARTICLES INSIDE PORES FOR SELECTIVE ION TRANSPORT!	<u>T 02/ SL 17 – V. Loiano</u> IN SITU FTIR SPECTROSCOPY STUDY OF POLYBENZIMIDAZOLE MEMBRANE SWELLING INDUCED BY SORPTION OF METHANOL
12:30	Break 50'	
	<i>Chairperson: Wojciech Kujawski</i>	<i>Chairperson: Libor Šeda</i>
13:20	<u>KL 03 – Lidietta Giorno</u> BIOHYBRID, BIOMIMETIC, BIOINSPIRED, BIONIC (B4) SYSTEMS MEMBRANES AND THEIR POTENTIAL APPLICATIONS	<u>KL 04 – Zhaoliang Cui</u> ADVANCED FLUOROPOLYMERIC MEMBRANES FOR WATER TREATMENT: FROM FUNDAMENTAL RESEARCH TO INDUSTRIALIZATION
13:50	<u>T 01/SL 07 – J. Stumme</u> STABILITY OF LBL COATED MEMBRANES AGAINST HIGH IONIC STRENGTH SOLUTIONS	<u>T 02/ SL 18 – D. Nikolaeva</u> BASIC IONIC LIQUIDS FOR SIMULTANEOUS CATALYTIC CONVERSION OF GLYCEROL TO GLYCEROL CARBONATE AND REMOVAL OF BY-PRODUCTS
14:10	<u>T 01/SL 08 – K. Petrov</u> CHARGED NANOPOROUS MEMBRANES AS AN ALKALINE-RESISTANT SEPARATOR FOR ELECTROCHEMICAL CO ₂ REDUCTION	<u>T 02/ SL 19 – M. Z. Ahmad</u> DEVELOPMENT OF ZIRCONIUM-BASED MOFS MIXED MATRIX MEMBRANES FOR HIGH-PRESSURE CO ₂ /CH ₄ SEPARATION
14:30	Break 20'	
	<i>Chairperson: Wojciech Kujawski</i>	<i>Chairperson: Libor Šeda</i>
14:50	<u>T 01/SL 09 – M. Frappa</u> NEW TWO-DIMENSIONAL BASED MEMBRANES FOR ULTRAFAST AND EFFICIENT MEMBRANE DISTILLATION AND MEMBRANE CRYSTALLIZATION	<u>T 02/SL 20 – V. Fila</u> CO ₂ SEPARATION USING COMPOSITE MEMBRANES BASED ON PIM-1
15:10	<u>T 01/SL 10 – S. Regina</u> PECTIN AS NEW CROSSLINKING AGENT FOR POLYVINYL ALCOHOL MEMBRANES	<u>T 02/ SL 21 – A. Fuoco</u> REDEFINITION OF THE CO ₂ /N ₂ AND CO ₂ /CH ₄ UPPER BOUNDS USING 2D ULTRAPERMEABLE POLYMERS OF INTRINSIC MICROPOROSITY (PIMS)
15:30	<u>T 04/SL 59 L. Koók</u> CASE STUDIES ON THE APPLICATION OF NEW ION EXCHANGE MEMBRANE MATERIALS FOR BIOELECTROCHEMISTRY	<u>SL 58 - Petr Pracna</u> THE NEW FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION HORIZON EUROPE
15:50	<u>KL 05 – Alberto Figoli</u> TOWARD A MORE SUSTAINABLE APPROACH IN MEMBRANE FABRICATION	
16:20	Break 25'	
16:45	Panel discussion Water Treatment	
18:30		



Tuesday, November 10, 2020

	ROOM A	ROOM B
	<i>Chairpersons: Jana Gaálová</i>	
9:00	<u>PL 02 – Young Moo LEE</u> POLYMER MEMBRANES FOR SEPARATION OF SMALL MOLECULES AND IONS	
	<i>Chairperson: Jana Gaálová</i>	
9:50	<u>KL 06 – Bart Van der Bruggen</u> SELECTIVE SEPARATION OF LITHIUM BY ION EXCHANGE MEMBRANES	<u>KL 07 – Hassan A. Arafat</u> CREATIVE FEED SPACER DESIGNS FOR MEMBRANE MODULES: HOW USEFUL AND PRACTICAL ARE THEY?
10:20	Break 20'	
	<i>Chairperson: Jana Gaálová</i>	
10:40	<u>T 04 / SL 22 – R. Sharifian</u> BIPOLAR MEMBRANE ELECTRODIALYSIS FOR ELECTROCHEMICAL CO ₂ CAPTURE FROM OCEAN	<u>T 06 / SL 32 – K. Schlackl</u> NANOFILTRATION CONSIDERED AS REPLACEMENT OF DIALYSES IN THE SODIUM HYDROXIDE RECOVERY FROM VISCOSE STEEPING LYE
11:00	<u>T 04 / SL 23 – P. Polezhaev</u> INTERACTIONS OF CATIONIC ENTITIES OF VARIOUS SIZE AND CHARGE WITH ION-EXCHANGE RESINS IN DC ELECTRIC FIELD	<u>T 06 / SL 33 – R. Guccione</u> AN INTEGRATED APPROACH FOR HCL AND METALS RECOVERY FROM WASTE PICKLING SOLUTIONS: PILOT PLANT DESIGN AND OPERATIONS
11:20	<u>T 04 / SL 24 – K. Kuldeep</u> LABORATORY AND BENCH SCALE TESTING OF BIPOLAR MEMBRANE ELECTRODIALYSIS FOR SULFATE RECYCLING IN METALLURGICAL INDUSTRY	<u>T 03 / SL 34 – T. Virtanen</u> CHARACTERIZATION OF FOULING-INDUCED CHANGES IN MEMBRANE POROSITY BY BRUNAUER–EMMETT–TELLER (BET) GAS ADSORPTION TECHNIQUE
11:40	<u>T 04 / SL 25 – A. Lejarazu-Larrañaga</u> NITRATE SELECTIVE ANION EXCHANGE MEMBRANES PREPARED BY USING DISCARDED REVERSE OSMOSIS MEMBRANES AS SUPPORT	<u>T 03 / SL 35 – M. Pagliero</u> INFLUENCE OF SUPPORT CHARACTERISTICS ON MEMBRANE PERFORMANCE IN DISTILLATION TEST
12:00	<u>T 04 / SL 26 – T. Mantel</u> POSITIVELY CHARGED ELECTRICALLY CONDUCTING MEMBRANE: E-SORPTION OF NOM	<u>T 01/ SL 56 – S. P. Singh</u> DOPED LASER-INDUCED GRAPHENE CATALYTIC FILTERS AND MEMBRANES FOR WASTEWATER TREATMENT
12:20	Break 50'	

	<i>Chairpersons: Tomáš Jiříček</i>	
13:10	PL 03 – Karel FRIESS ULTRAPERMEABLE COMPOSITE MEMBRANES BASED ON CARBON NANOTUBES AND GRAPHENE OXIDE: THE EFFECT OF METAL ION CONTENT ON H₂/CO₂ SEPARATION PERFORMANCE	
	<i>Chairperson: Tomáš Jiříček</i>	<i>Chairperson: Elena Tocci</i>
14:00	KL 08 – Tomas Kotala ELECTRODIALYSIS APPLICATIONS USING DIFFERENT STACKS CONFIGURATIONS	KL 9 – Roni Kasher SURFACE MIMETICS OF REVERSE OSMOSIS MEMBRANES BY SELF-ASSEMBLED MONOLAYERS FOR SCALING AND FOULING STUDIES
14:30	Break 20'	
	<i>Chairperson: Tomáš Jiříček</i>	<i>Chairperson: Elena Tocci</i>
14:50	T 04 / SL 27 – P. Sosa-Fernandez DESALINATION AND REUSE OF VISCOUS POLYMER-FLOODING PRODUCED WATER	T 05 / SL 36 – M. Weiland THE EFFECT OF DIFFERENT THICKNESSES AND OF DIFFERENT DESIGNS OF FEED SPACERS ON THE EFFICIENCY OF A MILK CONCENTRATION PROCESS
15:10	T 04 / SL 28 – J. Čížek FIRST EXPERIMENTS WITH MULTICHAMBER SHOCK ELECTRODIALYSIS UNIT	T 05 / SL 37 – M. Johnová USE OF ADVANCED VARIABLE MEMBRANE TECHNOLOGY FOR INDUSTRIAL WASTEWATER TREATMENT
15:30	T 04 / SL 29 – T. Belloň OVERLIMITING BEHAVIOR OF A SURFACE-MODIFIED HETEROGENEOUS ANION-EXCHANGE MEMBRANE	T 05 / SL 38 – F. Lipnitski DIRECT MEMBRANE FILTRATION FOR WASTEWATER TREATMENT – PILOT SCALE EXPERIENCES FROM NORWAY AND SWEDEN
15:50	Break 10'	
	<i>Chairperson: Tomáš Jiříček</i>	<i>Chairperson: Elena Tocci</i>
16:00	T 04 / SL 30 – N. Pismenskaya DECREASE IN SELECTIVITY OF CATION-EXCHANGE MEMBRANES DURING ED DESALINATION OF CALCIUM-CONTAINING SOLUTIONS	T 05 / SL 39 – H. Rosentreter PARTIAL DESALINATION OF SALINE GROUNDWATER BY PRESSURE DRIVEN AND ELECTROCHEMICAL TECHNOLOGIES
16:20	T 04 / SL 31 – Z. Slouka OVERLIMITING MECHANISMS OF ION EXCHANGE SYSTEMS	T 05 / SL 40 – M. Bobák PROTOTYPE OF HOLLOW FIBRE MEMBRANE MODULE FOR DIFFUSION DIALYSIS
16:40	SL 57 – T. Laska NEW SPECIALTY MEMBRANE PRODUCTS FOR CHALLENGING INDUSTRIAL WASTEWATERS	T 05 / SL 41 – L. Šeda SPIRAL MEMBRANE MODULES FOR RECOVERY OF ACIDS AND METAL USING DIFFUSION DIALYSIS
17:00		



Wednesday, November 11, 2020

	ROOM A	ROOM B
	<i>Chairpersons: Victor Nikonenko</i>	
8:30	<p><u>PL 04 – Andrey YAROSLAVTSEV</u></p> <p>SELECTIVITY OF TRANSPORT PROCESSES IN IONEXCHANGE MEMBRANES</p>	
	<i>Chairperson: Victor Nikonenko</i>	<i>Chairperson: Alberto Figoli</i>
9:20	<p><u>KL 10 – Marek Bryjak</u></p> <p>NEW METHOD FOR ENERGY HARVESTING FROM SALINITY GRADIENT</p>	<p><u>KL 11 – João Crespo</u></p> <p>FROM BLACK BOX TO MACHINE LEARNING: A JOURNEY THROUGH MEMBRANE PROCESS MODELLING</p>
9:50	Break 20'	
	<i>Chairperson: Victor Nikonenko</i>	<i>Chairperson: Alberto Figoli</i>
10:10	<p><u>T 04 / SL 42 – D. Golubenko</u></p> <p>NOVEL STANDARD GRADE AND MONOVALENT-SELECTIVE ANION-EXCHANGE MEMBRANES</p>	<p><u>T 07 / SL 49 – E. Tocci</u></p> <p>NUCLEATION AND GROWTH OF NANOCRYSTALS ON PVDF SURFACES</p>
10:30	<p><u>T 04 / SL 43 – M.T. Tsehaye</u></p> <p>POLY(PHENYLENE OXIDE)-BASED ANION EXCHANGE MEMBRANE WITH IMPROVED POWER DENSITY AND ENERGY EFFICIENCY ORGANIC REDOX FLOW BATTERY</p>	<p><u>T 07 / SL 50 – D. Khanukaeva</u></p> <p>ANALYTICAL APPROXIMATION OF THE HYDRODYNAMIC PERMEABILITY FOR GLOBULAR MEMBRANES</p>
10:50	<p><u>T 08 / SL 44 – L. La Corte</u></p> <p>MODELLING AND EXPERIMENTAL INVESTIGATION OF A NOVEL ION EXCHANGE MEMBRANE CRYSTALLIZER FOR MAGNESIUM RECOVERY</p>	<p><u>T 07 / SL 51 – A. Filippov</u></p> <p>THE CELL MODEL OF ION-EXCHANGE MEMBRANE</p>
11:10	Break 50'	

	<i>Chairperson: Bart Van der Bruggen</i>	<i>Chairperson: Joao Crespo</i>
12:00	<u>KL 12 – Alexandr I. Livshits</u> NON-PALLADIUM MEMBRANES FOR HYDROGEN SEPARATION AND THEIR APPLICATIONS IN NUCLEAR FUSION AND HYDROGEN ENERGY	<u>KL 13 – Paolo Vacca</u> NANOSTRUCTURED MATERIALS FOR GAS MANAGEMENT
12:30	<u>T 10 / SL 45 – V. Nikonenko</u> ENHANCEMENT OF ELECTRODIALYSIS USING PULSE ELECTRIC FIELDS	<u>T 07 / SL 52– M. Saric</u> ASSESSMENT OF THE POTENTIAL OF MEMBRANE TECHNOLOGY TO REDUCE CO2 EMISSIONS IN THE STEEL INDUSTRY
12:50	<u>T 10 / SL 46 – T. Titova</u> HYBRID MATERIALS BASED ON NAFION AND ELECTRICALLY CONDUCTIVE POLYMERS FOR DETERMINATION OF DRUGS IN PHARMACEUTICALS	<u>T 07 / SL 53– E. Mancini</u> SEPARATION OF SUCCINIC ACID: DONNAN-STERIC PARTITIONING-MODEL ON A SYNTHETIC AND REAL FERMENTATION BROTH
13:10	<u>T 10 / SL 47 – D. Butylskii</u> SELECTIVE EXTRACTION OF SINGLY CHARGED IONS USING A NEW METHOD OF ELECTROBAROMEMBRANE SEPARATION	<u>T 07 / SL 54 – H. Chamani</u> CAPILLARY FLOW INSIDE THE MEMBRANE PORE: TRACKING THE INTERFACE
13:30	<u>T 10 / SL 48 – C. Demoulin</u> NEW APPROACH FOR THE IDENTIFICATION OF SUSPENDED SOLIDS INTERACTIONS DURING ORANGE JUICE MICROFILTRATION: RHEOLOGY AND PARTICLES	<u>T 01 / SL 11 – D. Kimmer</u> NANOSTRUCTURED MICROFILTRATION MEMBRANES FOR WASTE WATER TREATMENT
13:50	Break 10'	
14:00 14:20	CLOSING CEREMONY	

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