

Sunday, June 28, 2026

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| Hotel Belaróia, 27 Rue Jules Ferry, Montpellier (in front of "Montpellier Saint Roch" train station) | |
| 17:00-20:00 | 🍷 WELCOME PARTY & REGISTRATION 🍷 |

Monday, June 29, 2026

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| 8:00-9:00 | REGISTRATION | |
| MOUSSERON Amphitheatre, ENSCM, Montpellier Chairs: A. JULBE (IEM, Univ Montpellier, FR), J. SERRA (ITQ, Univ Valencia, ES) | | |
| 9:00-9:30 | Opening Ceremony | |
| 9:30-10:15 | ★★ PLENARY LECTURE: From Membranes to Membranes S. SARRADE (CEA - Energy Division, Paris - Saclay, FR) | |
| 10:15-11:00 | ★★ PLENARY LECTURE: Inorganic Membranes for Hydrogen-related Applications R. BREDESEN (SINTEF Industry, Oslo, NO) | |
| 11:00-11:30 | COFFEE BREAK | |
| | MOUSSERON Amphitheatre | GODECHOT Amphitheatre |
| | H ₂ -day - 1a - Porous Membranes - Molecular Sieving Chairs: H. RICHTER (IKTS, DE), G. OLGUIN (Univ Valparaiso, CL) | H ₂ -day - 2a - Dense Ion Conducting Ceramics - Membranes & Devices Chairs: M.L. FONTAINE (SINTEF, NO), S. ESCOLASTICO (ITQ, Valencia, ES) |
| 11:30-12:00 | ★ KEYNOTE: Carbon Molecular Sieve Membranes for High-Performance Hydrogen Separation M.A. LLOSA TANCO (Tecnalia, BRTA, ES) | ★ KEYNOTE: Protonic ceramic membranes: from the composition choice to making devices S. RICOTE (Colorado School of Mines, US) |
| 12:00-12:15 | Ultrafast molecular sieving via two-dimensional fullerene membranes X. CHEN (East China Normal Univ, CN) | ◆ Materials development for proton and oxygen ceramic electrochemical cells (Invited) O. JOUBERT (FRH2-CNRS, Nantes Univ, FR) |
| 12:15-12:30 | Microporous Structure Regulation of Silica-Based Membranes for Hydrogen Separation Under Moderate-Temperature Environments J. ZHONG (Changzhou Univ, CN) | ◆ Ceramic Composite Membranes: Integrating Manufacturing, Reliability, and Sustainability (Invited) E. MERCADELLI (Inst. of Science, Technology & Sustainability for Ceramics, CNR, IT) |
| 12:30-12:45 | Hydrogen-Selective Silica Membranes: Correlating Gas Transport with Nanoporous Structure T. GREKOU (Centre for Research and Technology Hellas; Aristotle Univ of Thessaloniki, GR) | Insights into Degradation and Material Interactions of a Solar-Powered MIEC Membrane Reactor for Hydrogen Production S. BAUMANN (Forschungszentrum Jülich GmbH, DE) |
| 12:45-13:00 | Molecular Sieving Silica Membranes via Plasma-Induced Polymerization at Gas-Liquid Interface H. NAGASAWA (Hiroshima Univ, JP) | Data driven processing-performance insights into protonic ceramic fuel cells and electrolyzers R. O'HAYRE (Colorado School of Mines, US) |
| 13:00-14:30 | LUNCH BREAK | |
| | H ₂ -day - 1b - Porous Membranes - H ₂ Separation & Production Chairs: M.A. LLOSA TANCO (Tecnalia, ES), C. MA (Dalian Univ Technol, CN) | H ₂ -day - 3a - Metal-based Membranes - Reactors & Ammonia Cracking Chairs: N. ITOH (Utsunomiya Univ, JP), D.A. PACHECO TANAKA (Tecnalia, ES) |
| 14:30-14:45 | ◆ Carbon and zeolite membranes in H ₂ -economy (Invited) H. RICHTER (Fraunhofer IKTS, DE) | ★ KEYNOTE: Recent pilot-scale trial of metal membranes M. DOLAN (FORTESCUE, AU) or T. VILARINHO (FORTESCUE, FR) |
| 14:45-15:00 | Elegant customization of hybrid molecular sieve membranes for high-performance separations Y. PENG (Dalian Inst of Chemical Physics, Chinese Academy of Sciences, CN) | |
| 15:00-15:15 | Precursors and carbon-based membranes for gas separation in steel industry R. WYRWA (Fraunhofer IKTS, DE) | High purity H ₂ recovery from NH ₃ -cracking with Pd membrane technology T. PETERS (SINTEF, NO) |
| 15:15-15:30 | Enhanced hydrogen production from ammonia decomposition by a silica membrane reactor G. OLGUIN (Pontificia Univ Catolica de Valparaiso, CL) | Intensified Ammonia Cracking Using Palladium-Based Membrane Reactors M. NIKBAKHT FINI (TNO, NL) |
| 15:30-15:45 | Compact Clay-based Microporous Membrane Reactors for Ethanol Steam Reforming I. REIMANIS (Colorado School of Mines, US) | ◆ Re-engineering on-board hydrogen production: hollow fibre-based reactors for ammonia cracking (Invited) F.R. GARCIA GARCIA (Univ of Edinburgh, UK) |
| 15:45-16:00 | Development of High-Flux Al ₂ O ₃ /GO/Pd Composite Membranes: The Role of Graphene Oxide Interlayers in Enhancing Hydrogen Permeation and Selectivity C. HORI (Federal Univ of Uberlândia, BR) | Synergistically Enhanced Ammonia Decomposition via Electric Field Application and Hydrogen Membrane Separation S. UEMIYA (Gifu Univ, JP) |
| 16:00-16:30 | COFFEE BREAK | |
| | H ₂ -day - 2b - Dense Ion Conducting Ceramics - Reactors & H ₂ Processes Chairs: E. MERCADELLI (CNR-Faenza, IT), S. RICOTE (Colorado School of Mines, US) | H ₂ -day - 3b - Metal-based Membranes - Scale-up & Applications Chairs: T. PETERS (SINTEF, NO), C. HORI (Univ Uberlândia, BR) |
| 16:30-17:00 | ★ KEYNOTE: Inorganic proton conducting membrane based membrane reactors A. NIJMEIJER (Shell Global Solutions International BV, NL) | ★ KEYNOTE: Industrializing Metal-Ceramic Membranes: A Status Report on Proton Conductors and Pd-alloy Membranes P. VESTRE (CoorsTek Membrane Sciences, NO) |
| 17:00-17:15 | Efficient H ₂ production from NH ₃ by using Protonic Electrochemical Ceramic Reactors L. ALMAR (ITQ (CSIC-UPV), ES) | Deblending applications with Pd-based membranes separators J. MELENDEZ (Hydrogen Onsite S.L., ES) |
| 17:15-17:30 | Lessons learned – How to (not) operate and construct a solar-powered MIEC membrane reactor for syngas production N. NEUMANN (German Aerospace Center-DLR, DE) | Manufacturing trials of Palladium-Silver membrane joints for STEP Fuel Cycle F. DI CARLO (UK Atomic Energy Authority, UK) |
| 17:30-17:45 | A feasibility study on the preparation and application of a catalytic membrane reactor to carry out water splitting and POM reactions simultaneously I. RIZZARDI (Univ degli Studi di Genova, IT) | Early-Stage HAZID for Pd and CMS Membrane-Based Hydrogen Purification: Insights from the HERMES Project S. JORJANI (Fondazione Bruno Kessler, IT) |
| 17:45-18:30 | POSTER SESSION I & EXHIBITION | |
| 18:30-20:30 | WINE & CHEESE PARTY | |

| Tuesday, June 30, 2026 | |
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| 8:00-8:20 | REGISTRATION |
| MOUSSERON Amphitheatre, ENSCM, Montpellier Chair: I. VOIGT (IKTS, DE) | |
| 8:20-8:30 | Daily Announcements |
| 8:30-9:15 | ★★ PLENARY LECTURE: Graphene or MOF-based Membranes for Molecular or Ion Separation W. JIN (Nanjing Tech Univ, CN) |
| MOUSSERON Amphitheatre | |
| GODECHOT Amphitheatre | |
| Gas separation - 1 - Zeolite Membrane Preparation Strategies Chairs: I. VOIGT (IKTS, DE), M. MATSUKATA (Waseda Univ, JP) | |
| Water treatment - 1 - MF, UF, NF Membrane Fabrication & Processing Chairs: M.A. PIZZOCCARO (Univ Twente, NL), J. VAUGAN (Univ of Queensland, AU) | |
| 9:20-9:35 | ◆ Preparation and Gas Separation of Hollow Fiber Supported Zeolite Membranes (Invited) X. GU (Nanjing Tech Univ, CN) |
| 9:35-9:50 | ◆ Fabrication of asymmetric ceramic membranes in one step via phase inversion tape casting (Invited) L. WINNUBST (Univ of Twente, NL) |
| 9:50-10:05 | ◆ Room-temperature water-based activation of zeolite nanosheets for high-yield membrane fabrication K. CELEBI (Zhejiang Univ, CN) |
| 10:05-10:20 | ◆ Fuller's Earth-Based Low-Cost Ceramic Membrane for the Removal of Microplastic Microfibers from Domestic Laundry Wastewater V.K. RAJA (National Institute of Technology Andhra Pradesh, IN) |
| 10:20-10:35 | ◆ Non-thermal ultraviolet detemplation of DD3R zeolite membranes for gas separation P. DU (Nanjing Tech Univ, CN) |
| 10:35-11:00 | ◆ 3D-Printed Mullite Ceramic Membranes for High-Flux Oil/Water Separation C. SALAMEH (IEM, Univ Montpellier, FR) |
| 10:35-11:00 | COFFEE BREAK |
| Gas separation - 2 - 2D & Carbon Molecular Sieve Membranes Chairs: M. KANEZASHI (Hiroshima Univ, JP), Z. LAI (KAUST, SA) | |
| Water treatment - 2 - From Treatment to Reuse: Challenging Water Streams Chairs: D. MATTIA (Bath, GB), K.L. YEUNG (HKUST, HK) | |
| 11:00-11:15 | ★ KEYNOTE: Ultrathin two-dimensional membranes for carbon capture: fundamental science-driven scalable fabrication K.V. AGRAWAL (EPFL, CH) |
| 11:15-11:30 | Water reuse using ceramic membranes - exemplified by the water-intensive paper industry C. PFLIEGER (Fraunhofer IKTS, DE) |
| 11:30-11:45 | ◆ Precision Engineering of Carbon Molecular Sieve Membranes for Challenging Gas Separations (Invited) C. MA (Dalian Univ of Technology, CN) |
| 11:45-12:00 | ◆ Sodalite nanoparticle-infused polysulfone/polyethersulfone composite membrane for carbamazepine removal from pharmaceutical wastewater M. DARAMOLA (Univ of Pretoria, ZA) |
| 12:00-12:15 | ◆ Design of crosslinked carbon molecular sieves, ultramicroporous, gas separation membranes D. WANG (The University of Sydney, AU) |
| 12:15-12:30 | ◆ Advancing SWRO Desalination: Ceramic Membrane Filtration as a Next-Generation Pretreatment Solution A. BELGADA (Univ Mohammed VI Polytechnic, MA) |
| 12:30-14:00 | LUNCH BREAK |
| Gas separation - 3 - Membrane Design & Transport Mechanisms Chairs: K.V. AGRAWAL (EPFL, CH), X. WANG (Nanjing Tech Univ, CN) | |
| Water treatment - 3 - Membrane Design, Interfaces & Fouling Control Chairs: W.S. HUNG (Taiwan Univ, TW), L. WINNUBST (Univ Twente, NL) | |
| 14:00-14:15 | ★ KEYNOTE: Microstructure engineering of carbon contained ceramic composite structure for molecular separation M. KANEZASHI (Hiroshima Univ, JP) |
| 14:15-14:30 | ◆ Controlled modification of the surface properties of ceramic membranes for water filtration (Invited) C. MARICHY (CNRS, Univ Claude Bernard Lyon 1, FR) |
| 14:30-14:45 | ◆ Novel borocarbonitride-based membranes for efficient gas purification C. CASTILLA MARTINEZ (IEM, Univ Montpellier, FR) |
| 14:45-15:00 | ◆ Alkylphosphonic Acid-Grafting: a PFAS-Free strategy to produce hydrophobic ceramic membranes (Invited) M. PIZZOCCARO-ZILAMY (Forschungszentrum Jülich GmbH, DE) |
| 15:00-15:15 | ◆ Design for switching preferential permeation of non-adsorptive/adsorptive mixtures at temperatures ranging from ambient to extremely low temperature K. ISHIZAKI (Hiroshima Univ / Nippon Sanso, JP) |
| 15:15-15:30 | ◆ Industrialisation of Grignard-based functionalisation of inorganic membranes B. COEN (A-membranes, BE) |
| 15:30-15:45 | ◆ Comprehensive study on CO ₂ /CH ₄ gas permeation characteristics of DDR-type zeolite membrane H. MADOKORO (NGK Corporation, JP) |
| 15:45-16:15 | ◆ Electrically assisted microfiltration with lead-free BCTZ ceramic membranes C. CONIDI (CNR-ISSMC, IT) |
| 16:15-16:45 | ◆ Incorporating High-Valent Metal into Zeolite Membranes for CO ₂ Separation L. PENG (Nanjing Tech Univ, CN) |
| 16:45-17:00 | ◆ Data-driven control of biofilm membrane reactor with ceramic membranes Z. MALETSKYI (Norwegian Univ of Life Sciences, NO) |
| 17:00-17:15 | ◆ Insights into nanopore size distribution of silica-based membranes: explaining the advantageous hydrogen to carbon dioxide selectivity G. OLGUIN (Pontificia Univ Catolica de Valparaiso, CL) |
| 17:15-17:30 | ◆ Unifying and Predicting Oil-Water Membrane Fouling with a Physics-Aware Learning Framework S.Y. GÓMEZ GONZÁLEZ (Federal Univ of Santa Catarina, BR) |
| 17:30-17:45 | ◆ High-Silica CHA Zeolite Membranes with Ultrahigh Kr/CF ₄ Selectivity for High-Purity Krypton Purification (Invited) X. WANG (Nanjing Tech Univ, CN) |
| 17:45-18:30 | ◆ New Additive-Manufactured Inorganic Membranes: Architectures and Performances J. ANQUETIL (TAMI Industries, FR) |
| 18:30-19:00 | ◆ Oriented MFI zeolite membranes for efficient Freon/hexafluoropropylene separation Y. ZHANG (Nanjing Tech Univ, CN) |
| 19:00-22:00 | ◆ Tailoring Graphene Oxide Membranes via Polymer Intercalation and Crosslinking for Efficient Desalination A. DARMAWAN (Diponegoro Univ, ID) |
| 19:00-22:00 | ◆ Piezoelectric-responsive graphene membranes for simultaneous water production and electricity generation (Invited) W.S. HUNG (National Taiwan Univ of Science and Technology, TW) |
| POSTER SESSION II & EXHIBITION (Beer & Prezels served from 18:30) | |
| Scientific Committee Meeting & Dinner (Ma première Cantine, 4 Place Jean Jaurès, Montpellier) | |

Wednesday, July 1, 2026

8:00-8:20

REGISTRATION

MOUSSERON Amphitheatre, ENSCM, Montpellier

Chair: A. NIJMEIJER (Shell, NL)

8:20-8:30 Daily Announcements

8:30-9:15 ★ **PLENARY LECTURE:** How to use thermodynamic tricks to build and operate high-performance CO₂ permeable membranes
I. METCALFE (Newcastle University, UK)

| MOUSSERON Amphitheatre | | GODECHOT Amphitheatre | |
|---|---|--|--|
| PhD students - Session 1 | | PhD students - Session 2 | |
| Chairs: A. NIJMEIJER (Shell, NL), I. METCALFE (Newcastle Univ, UK) | | Chairs: D. WANG (Univ Sydney, AU), S. ROUALDES (Univ Montpellier, FR) | |
| 9:20-9:23 | Advances and challenges in reducing surface roughness to improve Pd-based membranes for H ₂ purification G. ASCHIERI (Rev Juan Carlos Univ, ES) | Lithium recovery from seawater desalination brines using ion-sieve electrospun nanofibrous membranes: the role of nanofiber design N. NADZRI (Nanyang Technological Univ, SG) | |
| 9:24-9:27 | Pd-based Membranes for Hydrogen Purification in Presence of Ammonia W. DEW (Norwegian Univ of Science and Technology, NO) | Membranes based on new charged 2D nanomaterial E. ROLLAND (CEA Saclay, FR) | |
| 9:28-9:31 | Upscaling Study of Carbon Molecular Sieve Membranes to Multichannel Configurations R. FERRETTI (Eindhoven Univ of Technology, NL) | Thiourea-functionalized graphene oxide ceramic nanofiltration membranes for ion rejection from saline wastewater S. KIM (Ewha Womans Univ of Seoul, KR) | |
| 9:32-9:35 | Hydrogen-Selective Silica Membranes: Correlating Gas Transport with Nanoporous Structure T. GREKOU (Centre for Research and Technology Hellas, GR) | Enhancing stability of graphene oxide ceramic membranes: overcoming adhesion and swelling limitations for dye removal Y. KOUZI (Univ Hassan II of Casablanca, MA) | |
| 9:36-9:39 | Hydrogen Permeable CoOx-SiO ₂ Membranes for Separation and Reaction: Synthesis and Characterization P. SRIVASTAVA (Univ of Houston, US) | Engineering PFAS-free hydrophobic ceramic membranes for membrane distillation: phosphonate anchoring F. ALTINBAS (Univ of Twente, NL) | |
| 9:40-9:43 | Cold Sintering as a Low-Temperature Route to Develop Porous Ceramic Membranes for Gas Permeation S. CANEVER (Federal Univ of Santa Catarina, BR) | Ligand-Assisted Cobalt Catalysts for Enhanced Dye Removal under Dark for Membrane Technology Applications J. K. KOH (Univ of Sydney, AU) | |
| 9:44-9:47 | Mixed-Linker-Directed Seed-Free Growth of CO ₂ -Selective MOF-303 Membranes L.T. CHI (National Taiwan Univ, TW) | Electroactive Ti ₄ O ₇ Ceramic Membranes for Advanced Water Treatment: A novel synthesis based on coupled reduction processes A. GALLOIS (Univ Montpellier, FR) | |
| 9:48-9:51 | Green Solvent Synthesis and Membrane Engineering of Two-dimensional metal-organic frameworks Zn ₂ (bim) ₄ J. BOSMAN (Forschungszentrum Jülich, DE) | 3D-Printed ZnO/SiOC Gyroid Monoliths as Photocatalytic Flow-Through Reactors for Water Treatment C. YOUSSEF (Univ Montpellier, FR) | |
| 9:52-9:55 | Effect of Membrane Morphology and Activation Strategy on CO ₂ Separation in CAU-23 Membranes C.-H. CHUANG (National Taiwan Univ, TW) | Environmentally Friendly Fabrication of Asymmetric Alumina Membranes for Water Treatment via Phase Inversion Tape Casting I. LAMBERS (Univ of Twente, NL) | |
| 9:56-9:59 | Aluminum Formate-Based Mixed Matrix Membrane for Enhanced Gas Separation Performance N. KHOIROH (Univ of Queensland, AU) | Evaluation of Spring Turbulence Promoter on Fouling Mitigation during the Microfiltration of Clove Basil Extract K. RODRIGUES DORNELES (Univ Federal de Uberlândia, BR) | |
| 10:00-10:03 | MOF-303 Tubular Membranes via PVA-Assisted Secondary Growth for Efficient CO ₂ /N ₂ and CO ₂ /CH ₄ Separation, Y.-M. CHEN (National Taiwan Univ, TW) | From Industrial Waste to Functional Interfaces: Multi-Scale Image Analytics of Porosity-Roughness Interplay in Spent Bleaching Earth Ceramic Membranes A. RAHMA (Institut Teknologi Kalimantan, ID) | |
| 10:04-10:07 | Biomimetic material modified polyetherimide membranes on CO ₂ /N ₂ separation enhancement T.-Y. FU (Univ of Sydney, AU) | High performance hybrid membranes for solvent-based separations: Towards sustainable chemical production K. ALAM (KU Leuven & VITO, BE) | |
| 10:08-10:11 | Investigating Dual-Phase Molten-Hydroxide Membranes for CO ₂ Separation: Lowering Operating Temperatures J. GRAY (Newcastle Univ, UK) | Exploring the physicochemical properties of atomic layer deposited alumina layers for solvent-resistant nanofiltration membranes H.SONDHI (Univ of Twente, NL) | |
| 10:12-10:15 | Direct CO ₂ reduction to methane in a pressurized dual-stage protonic steam-electrolysis reactor I. QUINA GARCÍA (Univ Politècnica de València, ES) | Physics Guided Neural Networks to Predict OSN Ceramic Membrane Performance P.J. PICCARD (Hasselt Univ & VITO, BE) | |
| 10:16-10:19 | Exploring the role of the local environment in electrode-membrane assemblies for the electroconversion of CO ₂ M. PAYA (Univ Montpellier, FR) | A Sacrificial Seed Layer Strategy for Hierarchical MFI Zeolite Membranes with Enhanced Butane Isomer Separation Performance J. LI (Zhejiang Univ, CN) | |
| 10:20-10:23 | Thermo-chemical and -mechanical Stability of Materials in Membrane Reactors for Renewable Syngas Production K. STRECKEL (Forschungszentrum Jülich, DE) | Gel-Recycling-Assisted Mild Synthesis of MFI Zeolite Membranes for Efficient Butane Isomer Separation K. YU (Nanjing Tech Univ, CN) | |
| 10:24-10:27 | Methane steam reforming intensified by an oxygen-ion conducting membrane reactor P. SINTES (Univ Politècnica de València, ES) | Rapid Synthesis of Ultrathin Zeolite Membranes with Exceptional Separation Performance H. WU (Nanjing Tech Univ, CN) | |
| 10:28-10:31 | Pressurized ammonia decomposition aimed at improving decomposition and hydrogen recovery, S. ITO (Utsunomiya Univ, JP) | Acceleration of Cyclopentanol Dehydrogenation Using Hydrogen Sieving Properties of CHA-Type Zeolite Membranes, D. KONDO (Utsunomiya Univ, JP) | |
| 10:32-10:35 | Systematic Fabrication and Functional Modification of PVDF Flat-Sheet Membranes for Ammonia Recovery via Membrane Distillation C. RADAA (Univ Mohammed VI Polytechnic, MA) | | |
| 10:35-11:00 | COFFEE BREAK | | |
| 11:00-12:30 | POSTER SESSION III (Dedicated to PhD Student Award Competition) | | |
| 12:30-14:00 | LUNCH BREAK | | |
| Gas separation - 5 - Molten Salt & Oxygen Transport Membranes Chairs: S. BAUMANN (FZ Jülich, DE), W. YANG (Dalian Inst of Chem Phys, CN) | | Water treatment- 5 - Reactive & Catalytic Membrane Processes Chairs: A. BUEKENOUTD (VITO, BE), A.K. AN (HKUST, HK) | |
| 14:00-14:30 | ★ KEYNOTE: Electrochemical Pumping of CO ₂ and O ₂ Using Molten Carbonate Electrolytes M. FONTAINE (SINTEF, NO) | ★ KEYNOTE: Treatment of recalcitrant pollutants in a dual membrane reactor system: Experimental and Modelling Study K.L. YEUNG (Hong Kong Univ of Science and Technology, HK) | |
| 14:30-14:45 | Ammonia separation using molten salt membranes: a sustainable approach to reduce energy and carbon footprint S. LIGUORI (Clarkson Univ, US) | Ti ₄ O ₇ Porous Electrodes for Biorefractory Micropollutants Removal in a Pilot-Scale Laboratory Studies: Application to the Degradation of Herbicides, Pharmaceuticals and Chemicals M. GIBERT-VILAS (F2I)im, ENSI-ENSCL Univ Limoges, FR) | |
| 14:45-15:00 | Development of dual phase Oxygen Transport Membranes and high temperature joining tests with metals P. FEDELI (Ricerca sul Sistema Energetico - RSE SpA, Milano, IT) | Clay-titania hybrid films as novel photocatalysts M. OGAWA (Shinshu Univ, JP) | |
| 15:00-15:15 | CFD Analysis of Oxygen Transport in Surface-Engineered MIEC Ceramic Membranes under Sweep-Gas Operation for Solar Thermochemical Reactors O.R. UZIEL (ITQ, Univ Politècnica de València, ES) | A Ti-Ti ₄ O ₇ reactive electrochemical membrane for efficient pharmaceutical compounds degradation J. RICHARD (IEM, CNRS, Univ Montpellier, FR) | |
| 15:15-15:30 | Model-supported analysis of surface exchange and ambipolar conductivity in STF25 oxygen transport membranes K. WILKNER (Forschungszentrum Jülich GmbH, DE) | Integration of Ceramic Membrane Nanofiltration and Catalytic Ozonation for Antibiotics Removal from Water S. BROSILLON (IEM, Univ Montpellier, FR) | |
| 15:30-15:45 | CFD-Based Multiphysics Analysis of Oxygen Permeation through Dense BSCF and LSCF Perovskite Membranes Univ of Brasília, BR - To be confirmed | | |
| 15:45-16:15 | COFFEE BREAK | | |
| Special Session - 1 - Membrane Design for Sensors Chair: C. MARICHY (Univ Claude Bernard, Lyon 1, FR) | | Special Session - 2 - Advanced Tools for Membrane Design & Processing Chair: L. WINNUBST (Univ Twente, NL) | |
| 16:15-16:30 | Atomic Layer Deposition for improved gas sensor performance M. BECHELANY (IEM, CNRS, Univ Montpellier, FR) | Supercritical CO ₂ processes: a smart strategy for membrane preparation & modification A. HERTZ (CEA - ISEC, Marcoule, FR) | |
| 16:30-16:45 | Machine Learning-Guided Optimization of ZnO-to-ZIF-8 Membrane Conversion: Predictive Framework for High-Quality MOF layer Synthesis K. DEDECKER (IEM, CNRS, Univ Montpellier, FR) | Acoustic Emission for Unveiling Gas Transport Mechanisms in Porous Membranes E. LE CLEZIO (IES, Univ Montpellier, FR) | |
| 18:30-23:00 | GALA DINNER (City Hall - Hôtel de Ville, 1 Place Georges Frêche, Montpellier) | | |

| Thursday, July 2, 2026 | |
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| 8:00-8:20 | REGISTRATION |
| | MOUSSERON Amphitheatre, ENSCM, Montpellier Chair: T. TSOTSIS (Univ Southern California, US) |
| 8:20-8:30 | Daily Announcements |
| 8:30-9:15 | ★★ PLENARY LECTURE: Inorganic Membranes for Water Treatment I. VOIGT (Fraunhofer IKTS, DE) |
| | MOUSSERON Amphitheatre |
| | GODECHOT Amphitheatre |
| | Membrane Reactors - 1 - Catalytic reactors, Fundamentals & Transport Chairs: T. TSOTSIS (Univ Southern California, US), W.A. MEULENBERG (FZ Jülich, DE) |
| | Membranes for Complex Liquid Processing - 1 - Organic & Industrial Liquids Chairs: M.W.J. LUITEN-OLIEMAN (Univ Twente, NL), Z. WANG (Zhejiang Univ, CN) |
| 9:20-9:50 | ★ KEYNOTE: Membrane reactors with Carbon Membranes F. GALLUCCI (1 CUBE BV and ZEFIRA BV, NL) |
| 9:50-10:05 | ★ KEYNOTE: A sustainable and economic membrane-based process to re-refine used lubricant oil A. BUEKENHOUDT (VITO NV, BE) |
| 9:50-10:05 | Vacuum-Driven Carbon Molecular Sieve Membrane Reactor for On-Purpose Propylene Production: Reactor Design, Modeling, and Process Evaluation D. LIU (Univ of Delaware, US) |
| 9:50-10:05 | Industrial Application of Ceramic Membrane Ultrafiltration for Purification of Refinery Oil Streams J. LIN (Arizona State Univ, US) |
| 10:05-10:20 | ◆ Carbon molecular sieve membranes for gas separation and membrane reactors (invited) D.A. PACHECO TANAKA (Tecnalia, ES) |
| 10:05-10:20 | Robust tailored ceramic membranes for high temperature separations: Key enabling technology for decarbonization of chemical industries P. VANDEZANDE (VITO NV, BE) |
| 10:20-10:35 | Investigating the Interplay of Membrane Mass Transport and Reaction Kinetics in Integrated Catalytic Membrane Reactors I. ELSHERBINY (Fraunhofer IKTS, DE) |
| 10:20-10:35 | MOF UiO-66 membranes for MeOH/organic separation X. LIU (Tianjin Univ, CN) |
| 10:35-10:50 | Optimized Mass & Heat Transport in an Experimental Solar-Heated Membrane Reactor for Hydrogen and Syngas Production N. KRUSE (German Aerospace Center - DLR, DE) |
| 10:35-10:50 | A Reduction of Over 30% in DD&E Cost of Bioethanol Production Using Zeolite Membrane Technology Y. LI (Ningbo Univ, CN) |
| 10:50-11:15 | COFFEE BREAK |
| | Membrane Reactors - 2 - Electrochemical Reactors & Energy Applications Chairs: R. O HAYRE (Colorado School of Mines, US), D. LIU (Univ Delaware, US) |
| | Membranes for Complex Liquid Processing - 2 - Membrane Design & Applications Chairs: P. VANDEZANDE (VITO, BE), M. OGAWA (Shinshu Univ, JP) |
| 11:15-11:45 | ★ KEYNOTE: Manufacturing of Proton Conducting Cells W.A. MEULENBERG (Forschungszentrum Jülich GmbH, DE) |
| 11:15-11:45 | ★ KEYNOTE: Increasing hydrophobicity of ceramic membranes by post-deposition nitrogen annealing of molecular layer deposition grown hybrid layers M.W.J. LUITEN-OLIEMAN (Univ of Twente, NL) |
| 11:45-12:00 | Protonic Ceramic Membranes for E-Fuel Synthesis D. SCHMIDER (EIFER Karlsruhe, DE) |
| 11:45-12:00 | Tight ceramic membrane based reactive extraction for recovery of biobased (di)carboxylic acids P. MONDAL (VITO NV, BE) |
| 12:00-12:15 | Single-Stage Electrochemical Ammonia Cracking to Compressed Hydrogen A.C. DOS SANTOS TEIXEIRA (ITQ, CSIC, Univ Politècnica de València, ES) |
| 12:00-12:15 | Development and Application of Asymmetric Alumina Hollow Fiber Membranes for Genipap (Genipa americana L.) Extract Clarification M. REIS (Federal Univ of Uberlandia, BR) |
| 12:15-12:30 | AAO-based fully transparent plasmonic membranes for thermal catalysis S. KMENT (CATRIN, Palacky Univ Olomouc, CZ) |
| 12:15-12:30 | ◆ Microfiltration / Ultrafiltration and skim milk fouling: inorganic vs polymer membranes (invited) M. RABILLER-BAUDRY (ISCR, Univ Rennes, CNRS, FR) |
| 12:30-14:00 | LUNCH BREAK |
| | Membrane Reactors - 3 - Catalysis & Process Intensification Chairs: F. GALLUCCI (1 CUBE, ZEFIRA BV, NL), F. GARCIA-GARCIA (Univ Edinburgh, UK) |
| | Special Session - 3 - Membranes for Energy & Resource Recovery Chairs: J. LIN (Arizona State Univ, US), M. BECHELANY (Univ Montpellier, FR) |
| 14:00-14:30 | ★ KEYNOTE: Membrane Contactor Reactors (MCR): An Efficient Platform Technology for Converting Waste Carbon Resources into Liquid Chemicals and Fuels T. TSOTSIS (Univ of Southern California, US) |
| 14:00-14:30 | ★ KEYNOTE: Lithium Extraction from Low-grade Brines Z. LAI (King Abdullah Univ of Science and Technology, SA) |
| 14:30-14:45 | Flow-membrane reactor to achieve equilibrium shift in esterification while avoiding phase separation N. ITOH (Utsunomiya Univ, JAPAN, JP) |
| 14:30-14:45 | ◆ Flexible LATP Composite Membrane for Lithium-Selective Electrodialysis with Superior Cation Rejection (invited) A.K. AN (Hong Kong Univ of Science and Technology, HK) |
| 14:45-15:00 | Cu-MOR Zeolite Membrane Reactors with Integrated Reaction-Separation Functions for Enhanced CO2 Hydrogenation to Methanol Y. WEI (NingBo university, CN) |
| 14:45-15:00 | Innovative MOF-Based Membrane Technologies for Metal Recovery from E-Waste B. HAN (NTU, SG) |
| 15:00-15:15 | Thermo-chemical and -mechanical Stability of Materials in Membrane Reactors for Renewable Syngas Production K. STRECKEL (Forschungszentrum Jülich GmbH, DE) |
| 15:00-15:15 | 2D Silicalite Nanosheet-Polymer Composite Anion Exchange Membranes J. DONG (Univ of Cincinnati, US) |
| 15:15-15:45 | ★ KEYNOTE: Oxygen transport membranes applied to carbon capture and intensified catalysis M. BALAGUER RAMÍREZ (ITO, CSIC, Univ Politècnica de València, ES) |
| 15:15-15:45 | ★ KEYNOTE: Dynamic Inorganic Membranes for Advanced Zinc-Ion Batteries W. YANG (Chinese Academy of Sciences, Dalian, CN) |
| 15:45-16:15 | COFFEE BREAK |
| 17:00 | Montpellier City Walk (2-hour guided tour from the Tourist Office – Starting from 17:00) |

| Friday, July 3, 2026 | |
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| 8:30-8:50 | REGISTRATION |
| | MOUSSERON Amphitheatre |
| 8:50-9:00 | Daily Announcements |
| | Industry Pitches Chairs: C. SALAMEH & M. DROBEK (Univ Montpellier, FR) |
| 9:00-10:30 | Series of short presentations by ICIM-18 sponsors (detailed list to be announced) |
| 10:30-11:00 | COFFEE BREAK |
| | Final Plenary Session Chairs: W. JIN (Nanjing Tech Univ, CN); J. SERRA (Univ Valencia, ES) & A. JULBE (Univ Montpellier, FR) |
| 11:00-11:45 | ★★ PLENARY LECTURE: Zeolite Membranes for Molecular Separation, Membrane Reactors and Energy Storage J. LIN (Arizona State Univ, USA) |
| 11:45-12:30 | 🏆 Award Ceremony |
| 12:30-13:00 | 📢 Annoucement ICIM-19 |
| 13:00-13:15 | Concluding Remarks |
| 13:15-15:00 | 🍷 TAPAS PARTY |