



Institute on Membrane
Technology
National Research Council of Italy

ITM INTERNATIONAL MEMBRANE WEBINARS 2022

**A series of lectures
given by academic and industrial
top-players of the membrane community**

PROGRAM

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| 30th March 2022 | Electrodialysis processes |
| 15:00 - 15:10 | Introduction to the ITM International Membrane Webinars <i>Dr. Alberto Figoli. (CNR-ITM Director)</i> |
| <i>Moderators: Giorgio de Luca, Elisa Esposito</i> | |
| 15:10 - 15:50 | Electrodialysis : fundamentals, performances and prospects <i>Dr. Hélène Roux-de Balmann</i> <i>Université of Toulouse, CNRS, France</i> |
| 15:50 - 16:30 | Electrodialysis: roadmap for scale-up & application examples <i>Anne-Cecile Valentin and Jeremy Jacobin</i> <i>SUEZ - Water Technologies & Solutions, France</i> |
| 27th April 2022 | Advances in membrane preparation |
| 15:00 - 15:10 | <i>Moderators: Gianluca Di Profio, Teresa Poerio</i> |
| 15:10 - 15:50 | Sustainable membrane fabrication using biodegradable polymers and green solvents <i>Prof Jeong KIM</i> <i>(STEM) Lab, Incheon National University, South Korea</i> |
| 15:50 - 16:30 | Electrospun membranes and opportunities of fabrication with large polymer variety and scale up <i>Dr. Ivan PONOMAREV</i> <i>Elmarco Ltd., Czech Republic</i> |
| 27th May 2022 | Reverse electrodialysis |
| 15:00 - 15:10 | <i>Moderators: Enrica Fontananova, Adolfo Iulianelli</i> |
| 15:10 - 15:50 | Reverse electrodialysis: energy from salinity gradients <i>Prof. Efrem Curcio</i> <i>Università della Calabria, Rende, Italy</i> |
| 15:50 - 16:30 | Some hypotheses on red beachhead market <i>Dr. Fabrizio Vicari</i> <i>ResourSEAs srl, Palermo, Italy</i> |

| 29th June 2022 | Membranes for artificial organs |
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| 15:00 - 15:10 | <i>Moderators: Sabrina Morelli, Antonella Piscioneri</i> |
| 15:10 - 15:50 | Membrane based (bio)artificial organs to mimic or replace patient failing organs. <i>Prof. Dr. Dimitrios Stamatialis</i> <i>University of Twente, Enschede, The Netherlands</i> |
| 15:50 - 16:30 | CO₂ removal from blood: From ECMO to minimal invasive treatment <i>Dr. Marek Lanc</i> <i>CCORE Technology GmbH, Vienna, Austria</i> |
| 27th July 2022 | Modelling in membrane science |
| 15:00 - 15:10 | <i>Moderators: Elena Tocci, Giacomo Saielli</i> |
| 15:10 - 15:50 | Molecular Simulation of Materials for Gas Separations <i>Dr. Niki Vergadou</i> <i>Institute of Nanoscience and Nanotechnology of the National Center for Scientific Research (NCSR) "Demokritos", Greece</i> |
| 15:50 - 16:30 | Multiscale modeling of complex systems for accelerating R&D development cycles and time to market of new products/technologies <i>Dr. Pluton Pullumbi</i> <i>Air Liquide, France</i> |
| 25th October 2022 | News in membrane materials and membrane manufacturing |
| 15:00 - 15:10 | <i>Moderators: Alessio Fuoco, Francesco Galiano</i> |
| 15:10 - 15:50 | Novel functionalized organic fillers for Mixed Matrix Membranes <i>Dr. Mariolino Carta</i> <i>Swansea University, Swansea, Wales, UK</i> |
| 15:50 - 16:30 | Membrane manufacturing using 3D printing <i>Prof. Davide Mattia</i> <i>University of Bath, Bath, UK</i> |

For registration, please go to: https://www.itm.cnr.it/register_webinar.php

Organised by CNR-ITM
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