

ORGANIZED BY THE

Institute on Membrane Technology (CNR-ITM)



3rd International Workshop on
**Membrane Distillation and Innovating Membrane
Operations in Desalination and Water Reuse**

mdravello2021

April 12th - 15th, 2021

Auditorium Oscar Niemeyer

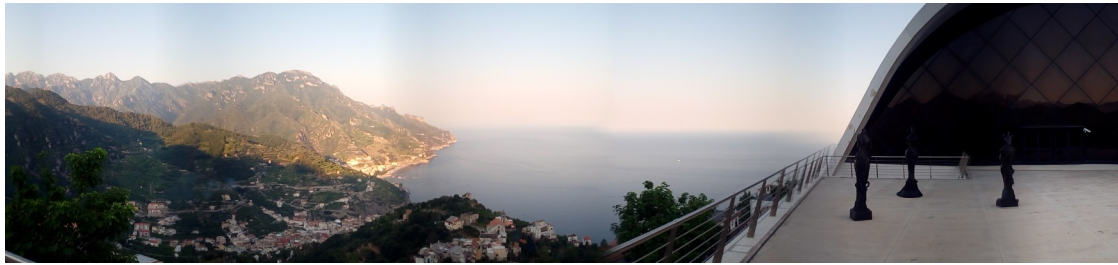
Ravello (SA), Italy



1st Announcement

web site www.itm.cnr.it/mdravello2021

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Conference Organization

Conference Organizer

*Institute on Membrane Technology
(ITM-CNR)*

Scientific Committee (preliminar)

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Registration fee

Category	Early Registration before December 20, 2020	Late Registration after December 20, 2020
<i>Participants</i>	1000	1200
<i>Students *</i>	500	550

Registration Opening: June 20, 2020

The registration fee covers: participation to all conference activities, welcome reception, coffee breaks, conference dinner, printed materials, local transportations.

* Students should send their application together with a declaration of their supervisor certifying their status.

Scope & Contents

Membrane contactors represent an emerging technology that can lead to significant innovation in processes and products, thus offering new opportunities in the design, rationalization and optimization of innovative productions. Among the different operations, membrane distillation (MD) and related technologies represent a powerful tool to improve current production processes with fundamental benefits in terms of process efficiency and products quality.

Following the first conference on “*Membrane Distillation*” held in Rome on May 1986 (Chairman Prof. Enrico Drioli, CNR-ITM), the “*International Workshop on Membrane Distillation and Related Technologies*” held on 9-12 October 2011, the 2nd *International Workshop on “Membrane Distillation and Innovating Membrane Operations in Desalination and Water Reuse”* held on July 1 - 4, 2015, the **3rd International Workshop on “Membrane Distillation and Innovating Membrane Operations in Desalination and Water Reuse”** will be held on April 12 - 15, 2021 in Ravello (on the Amalfi Coast), Italy, organized (as the previous ones)by the Institute on Membrane Technology (CNR-ITM).

All relevant membrane contactors operations and their relevant aspects (from new membranes synthesis to modelling of the transport mechanisms, combination with alternative energy sources and applications) will be discussed.

The purpose of the Workshop is to share the latest research works and technological advances in the field and its’ areas of application. A compelling program, featuring an interesting line-up of international speakers that will present in-depth information about the latest technologies and products will characterize the event. **Oral presentations** at the Workshop are **by invitation only** from the Committee. A Poster session with contributions presented by researchers to illustrate leading edge research to an international audience, will be available at the conference site. The event will represent also an excellent opportunity for networking, collaborations and partnerships among scientist coming from different areas of expertise. Prizes will be assigned for the best poster presentations given by early career researchers.



Topics

Membranes materials and membrane synthesis/characterization and modelling

Modeling of mass/heat transport mechanisms

Process engineering, module configurations, processes simulations and performances

Membrane fouling

Membrane assisted crystallization and other membrane-based crystallization systems

Osmotic distillation

Membrane assisted condensation

Membrane Engineering for process intensification

Membrane emulsification

Applications in food, pharmaceutical, fine chemical, water treatment (desalination and purification), and petrochemical industries

MD and related operations for biofuels productions

Hybrid systems: MD/RO – MD/MBR – MD/membrane reactors and others

Concepts implementations, scale down/scale up and microfluidics

Membrane systems in the extraction and recovery of mineral from the sea and wastewaters

Combination with renewable energy sources and low-grade waste heat streams

Hybrid systems, new applications and future developments



Abstract submission

Abstract submission for poster and lectures will be opened in **April 20, 2020**

Abstract submission deadline: **October 20, 2020**