



Dear Colleagues and Attendees of MEMDES 2023,

We are pleased to announce that **MEMDES 2023, the 6th International Conference on Desalination using Membrane Technology**, will be held in Sitges, Spain, between the 19th and 23<sup>rd</sup> of November 2023, hosted and organised by Elsevier and the journal *Desalination*.

**MEMDES 2023** will be focused on critical themes relevant to current challenges facing the proliferation of desalination technology, to enable sustainable water production. This will include advanced chemical and membrane-based pre-treatments (Ultrafiltration, microfiltration), membrane desalination (Reverse osmosis, nanofiltration, forward osmosis, pressure retarded osmosis) and thermal desalination processes (membrane distillation and pervaporation) as well as electrochemical systems for selective desalination and polishing (electrodialysis, capacitive deionisation). A strong emphasis on routes to remediate membrane fouling, the development of cost-effective advanced materials (Biomimetic water, 2D membranes and ion channel membranes), as well as emerging desalination and non-conventional water production technologies will be pursued to reveal emerging trends. In addition, process intensification as well as novel hybrid systems enabled through spacers and modules design as well as better module-based hydrodynamics control will be explored. The potential of brine/concentrate mining and valorisation as well as selective resources recovery to enable more energy-wise and sustainable processes will be discussed. Studies involving large scale and in-depth life cycle and economic evaluations as well as touching on the emerging area of membrane materials recycling and upcycling are also welcome. Last, perspectives on the impact of the COVID19 pandemic on desalination processes and industrial needs to ramp up R&D in desalination towards commercial operation of membranes for desalination will be explored with a panel of industry representatives.

We look forward to continuing the MEMDES legacy of fostering a platform for discussion, engagement and networking among local and overseas delegates. Technical workshops and tours will be offered to all delegates during the conference, which will focus on lab-to-tap approaches, end-of-life membrane valorisation and academic writing workshops.

We are also delighted to announce our MEMDES 2023 Plenary speakers, including Dr Geoffrey Johnstan-Hall (Dupont Water, Australia), Prof. Suzana Nunes (KAUST, KSA), Prof. Moyamed Khayet (University Complutense of Madrid, Spain), Prof. Effrem Curcio (Università della Calabria, Italy) and Prof. Alicia An (City University Hong Kong, China).

The online abstract submission is now open and we look forward to your submissions on state-of-the-art research and industry progress to build a stimulating program, to move frontiers in desalination science engineering forward.

We look forward to welcoming you to **MEMDES 2023** in the beautiful Sitges, Spain!

**MEMDES 2023 Co-Chairs**