



ITS THIN Workshop, September 20-22, 2023, Corfu, Greece

Water separation revolutionized by ultrathin carbon nanomembranes (ITS-THIN)

Meeting place: Divani Corfu Palace Hotel, Kanoni area, Corfu, Greece

Invited Talks: 45 min & 15 min discussion / Presentations: 20 min & 10 min discussion

DAY 1: WEDNESDAY, 20 SEPTEMBER 2023		
9:15 – 9:45	Registration	
	(University of Patras)	
9:45 – 10:00	Welcome Address by ITS THIN Project Coordinator	
	Prof. Armin Gölzhäuser, Bielefeld University, Germany	
10:00 – 10:15	Welcome Address by ITS THIN Project Officer (videoconference)	
	Dr. Ioannis Fiamegkos, European Commission	
10:15 – 11:15	Keynote Presentation: Artificial water channels toward biomimetic membranes for desalination	
	Prof. Mihail Barboiu, Institut Européen des Membranes, Montpellier, France	
11:15 – 11:45	Coffee break	
11:45 – 12:15	Fundamental advances in molecular transport and its applications to water and energy (videoconference)	
	Prof. Lydéric Bocquet, CNRS-ENS Paris, France	
12:15 – 12:45		
12:15 – 12:45	The CNM-composite membrane – the realization of a water filtration	
12:15 – 12:45 12:45 – 13.15	The CNM-composite membrane – the realization of a water filtration membrane with a free-standing 2D-material as active layer	
	The CNM-composite membrane – the realization of a water filtration membrane with a free-standing 2D-material as active layer Dr. Albert Schnieders, CNM Technologies GmbH, Germany	
	The CNM-composite membrane – the realization of a water filtration membrane with a free-standing 2D-material as active layer Dr. Albert Schnieders, CNM Technologies GmbH, Germany Nanomechanics of Carbon Nanomembranes	
12.45 – 13.15 13:15 – 14:45	The CNM-composite membrane – the realization of a water filtration membrane with a free-standing 2D-material as active layer Dr. Albert Schnieders, CNM Technologies GmbH, Germany Nanomechanics of Carbon Nanomembranes Marinos Dimitropoulos, University of Patras, Greece	

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15:15 – 15:45	Enzyme-Immobilized Electrospun Nanofiber Designs and Their Applications in Wastewater Treatment	
	Dr. Dan Zhao, Technical University of Denmark, Denmark	
15:45 – 16:15	Performance evaluation of composite CNM membranes in low-pressure reverse osmosis and forward osmosis: results and challenges	
	Ana Ambrož, University of Maribor, Slovenia	
16:15 – 16:45	Coffee break	
16:45 – 17:15	Membrane contactors for product concentration and recovery of valuable compounds	
	Lex van Dijk, Colubris Cleantech, Netherlands	
17:15 – 17:45	Synergizing Optical Fiber and Membrane Technologies for Enhanced Water Purification in a Photocatalytic Reactor	
	Dr. Basanti Ekka, Riga Technical University, Latvia	
19:00	Welcome Reception, Divani Corfu Palace Hotel	
DAY 2: THURSDAY, 21 SEPTEMBER 2023		
9:30 – 10:30	Keynote Presentation: Carbon nanotubes membranes as atomically smooth nanofluidic conduits with electrodynamic active pumping	
	Prof. Bruce J. Hinds, Univ. of Washington, Seattle, USA	
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Day 2: Thursday, 21 September 2023		
9:30 – 10:30	Keynote Presentation: Carbon nanotubes membranes as atomically smooth nanofluidic conduits with electrodynamic active pumping Prof. Bruce J. Hinds, Univ. of Washington, Seattle, USA	
10:30 – 11:30	Review of research on Graphene by CNM lab at FORTH over the last 10 years Prof. Costas Galiotis, University of Patras, Greece	
11:30 – 12:00	Coffee break	
12.00 – 12.30	Reduction of Biofouling on Membrane in Water Treatment through UV- Activated TiO ₂ Coated Optical Fibers Kristīne Bārtule, Riga Technical University, Latvia	
12:30 – 13:00	Diffusion of radioactive tracers through Carbon Nanomembranes En-neita Khayya, Bielefeld University, Germany	
13:00 – 14:45	Lunch	
14:45 – 16:00	Round Table: Current state of the art & Future trends Coordinated by Bielefeld University, Germany	
17:00 – 22:00	Excursion & dinner	

DAY 3: FRIDAY, 22 SEPTEMBER 2023		
9:15 – 9:45	Mechanics of the CNM-substrate Interface Assoc. Prof. Konstantinos Dassios, University of Patras, Greece	
9:45 – 10:45	Keynote Presentation: The challenges of producing ultrapure water for water electrolyzers DiplIng. Martin Meinardus, Grünbeck Water Treatment, Germany	
10:45 – 11:15	Catalytic nanofiber membrane reactors for water technologies Assoc. Prof. Whenjing (Angela) Zhang and Feiyan Wu, Technical University of Denmark, Denmark	
11:15 – 11:45	Coffee break	
11.45 – 12.15	Molecular sieving polymers: Mechanics and permeation properties Jakob Kreie, Bielefeld University, Germany	
12.15 – 12.45	Upscaled production of Carbon Nanomembranes Dr. Nikolaus Meyerbröker, CNM Technologies GmbH, Germany	
12.45 - 13.00	Closing Remarks by Project Coordinator	
13:00 – 14:15	Light Lunch	
14:30	Departure	