

AMSIC - 4 HIGHER EDUCATION MEMBRANE WORKSHOP

Location: African center of excellence for water management
4 Kilo campus, college of natural sciences
Addis Ababa University - Ethiopia

Date: November 4, 2024

Schedule: 8:30 - 16:40

Instructors	Prof. Mathias Ulbricht Prof. João Crespo Prof. Ranil Wickramasinghe Prof. Edward Nxumalo Prof. Ludovic Dumee Dr. Ir. Abaynesh Y. Gebreyohannes Dr. Ramato Ashu Tufa	Universität Duisburg-Essen, Germany NOVA University of Lisbon, Portugal University of Arkansas, USA University of South Africa, South Africa Khalifa University, UAE Osmoses Inc, USA University of Calabria, Italy	
Morning sessions			
8:30 - 9:00	Welcome and introduction to the African Center of Excellence for Water Management <i>(Feleke Zewge, Beteley Tekola and Shimelis Kebede)</i>	Auditorium	
9:00 - 10:15	Overview on Membrane Sciences, Processes and Applications <i>(Mathias Ulbricht)</i>	Auditorium	
10:15 - 10:30	Introduction to Topical Courses <i>(Mathias Ulbricht)</i>	Auditorium	
10:45 - 12:15	Parallel sessions (Topical Courses*)	TC1 <i>(Mathias Ulbricht)</i>	Auditorium
		TC2 <i>(João Crespo)</i>	Room-1
		TC3 <i>(Ranil Wickramasinghe)</i>	Room-2
		TC4 <i>(Ludovic Dumee)</i>	Room-3
		TC5 <i>(Abaynesh Y. Gebreyohannes)</i>	Room-4
		TC6 <i>(Edward Nxumalo)</i>	Room-5
		TC7 <i>(Ramato Ashu Tufa)</i>	Room-6
12:15 - 13:15	Group picture then lunch		
Afternoon sessions			
13:45 - 15:15	Parallel sessions (Topical Courses)	TC1 <i>(Mathias Ulbricht)</i>	Auditorium
		TC2 <i>(João Crespo)</i>	Room-1
		TC3 <i>(Ranil Wickramasinghe)</i>	Room-2
		TC4 <i>(Ludovic Dumee)</i>	Room-3
		TC5 <i>(Abaynesh Y. Gebreyohannes)</i>	Room-4
		TC6 <i>(Edward Nxumalo)</i>	Room-5
		TC7 <i>(Ramato Ashu Tufa)</i>	Room-6
15:15 - 15:30	Break		
15:30 - 16:30	WA-MS Panel**	Auditorium	
16:30 - 16:45	Closing	Auditorium	

*Topical Courses

TC1	Membrane materials and fabrication methods
TC2	Characterization of porous membranes
TC3	Membranes for life - manufacture of medicines and blood processing
TC4	Membranes process for gas separation and air filtration
TC5	Membrane engineering and integrated processes for water & wastewater treatment
TC6	RO desalination for seawater/brackish water treatment: next generation membranes and green processes for sustainable development
TC7	Membrane processes for green energy transition and power generation

****World Association of Membrane Societies (WA-MS) panel** in the presence of WA-MS President – [Ranil Wickramasinghe](#) (60 min - See next page)

WA-MS Promoting Education and Training in Membrane Science and Technology		
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Session start (duration)		15:30 (60 min)
	Introduction to WA-MS	<i>Ranil Wickramasinghe (5 min)</i>
	Shifting teaching practices for resilient growth: Is Africa ready?	<i>Abdoulaye Doucoure (10 min)</i>
	Membrane Knowledge Hub: A University-Industry Platform Towards Sustainable Water and Energy Management in Africa (WE-Africa)	<i>Stefan Panglisch (10 min)</i>
	Multitiered Mentoring A US Example of promoting STEM careers among disadvantaged groups	<i>Ranil Wickramasinghe (5 min)</i>
	Speaker from Ethiopia (to be announced)	<i>TBA</i>
	Discussion: strengthening Africa's membrane training resources for sustainable development: Cooperation with WA-MS and other partners	<i>Sara Chergaoui (15 min)</i>