

Under the patronage of the Custodian of the Two Holy Mosques
King Salman Bin Abdulaziz Al Saud



**9th International Conference
on Water Resources
and Arid Environments**



29-30 March 2021

Organizers



Contact: **Dr. Adulmalek Al Alshaikh**, Conference Chairman

Phone: (+966 11) 4675571 Fax: (+966 11) 4675574 WhatsApp: 0552881212 info@icwrae-psipw.org www.icwrae-psipw.org



ICWRAE 9 Conference Schedule

Day 1: 29 March 2021

Time (GMT)	(RIYADH)	ICWRAE 9 Inaugural Ceremony – Date: 29 March, 2021	Time: 15:00-15:50 GMT (Saudi Arabia Time GMT+3)
15:00-15:50	18:00-18:50	Abdulmalek A. Al Alshaikh Director, Prince Sultan Institute for Environmental, Water & Desert Research; PSIPW General Secretary Presentation: King Saud University An Introduction to KSU and its History H.E. Badran al-Omar President, King Saud University Presentation: PSIPW Introducing the 9th Award Winners H.E. Abdulrahman Abdulmohsen A. AlFadley Representative of the Custodian of the Two Holy Mosques King Salman Bin Abdulaziz Al Saud; Minister of Environment, Water and Agriculture	

Time (GMT)	(RIYADH)	Opening Session (Guests of Honour) – Date: 29 March, 2021	Time: 15:55-16:30 GMT (Saudi Arabia Time GMT+3)
15:55-16:05	18:55-19:05	Simonetta Di Pippo Director, United Nations Office for Outer Space Affairs	Space for water
16:05-16:20	19:05-19:20	Mahmoud Abou Zaid President, Arab Water Council	Highlights on the water-related activities of the Arab Water Council (AWC) on the Arab regional scale
16:20-16:30	19:20-19:30	Loïc Fauchon President, World Water Council	Global water challenges with a special focus on arid environments: underlining the risks and opportunities for the future

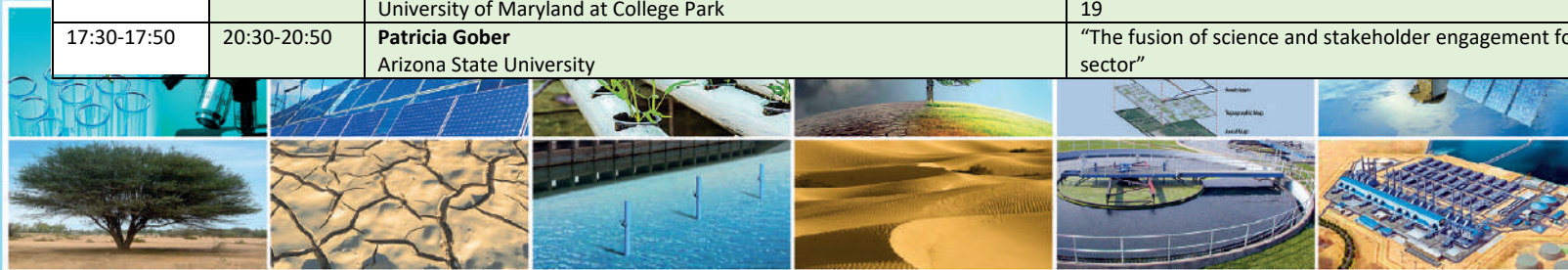
Time (GMT)	(RIYADH)	Session (A) – Date: 29 March 2021	Time: 16:30–17:50 GMT (Saudi Arabia Time GMT+3)
16:30-16:50	19:30-19:50	Abdul Aziz bin Muhareb Al-Shaibani Deputy Minister for Water, Ministry of Environment, Water & Agriculture	Water sector reform in view of the 2030 vision (KSA)
16:50-17:10	19:50-20:10	Rahul Nair National Graphene Institute, University of Manchester, UK	Science and technology of 2D-materials-based membranes for water filtration
17:10-17:30	20:10-20:30	Benjamin Hsiao Stony Brook University, New York, USA	Upcycling biomass waste as effective water purification materials by nitro-oxide process
17:30-17:50	20:30-20:50	Priyanka Sharma Stony Brook University, New York, USA	Upcycling the biomass waste for water purification

Time (GMT)	(RIYADH)	Session (B) – Date: 29 March 2021	Time: 16:39–17:50 GMT (Saudi Arabia Time GMT+3)
16:30-16:50	19:30-19:50	Omar Yaghi University of California, Berkeley	Harvesting water from desert air
16:50-17:10	19:50-20:10	Tom Soo Executive Director, IAHR	TBA
17:10-17:30	20:10-20:30	Kristine Larson University of Colorado at Boulder	Water sensing with reflected GPS/GNSS Signals
17:30-17:50	20:30-20:50	Soroosh Sorooshian University of California, Irvine	Measuring rainfall from satellite observations over the planet: An update of the PERSIANN system

Day 2: 30 March 2021

Time (GMT)		Session (A) – Date: 30 March 2021 Time: 15:00-17:50 GMT (Saudi Arabia Time GMT+3)	
(GMT)	(RIYADH)		
15:00-15:20	18:00-18:20	Abdul Latif Ahmad Universiti Sains, Malaysia	Recycling & reclamation of water from palm oil mill effluent using integrated membrane system
15:20-15:40	18:20-18:40	Peng Wang King Abdullah University of Science and Technology, Thuwal, Saudi Arabia	Sustainability at the Solar Energy-Water Nexus
15:40-15:50	18:40-18:50	Break	
15:50-16:10	18:50-19:10	Mansour Almazroui Consultative Council of Saudi Arabia	Climate change in the Kingdom of Saudi Arabia
16:10-16:30	19:10-19:30	Rong Wang Nanyang Technological University, Singapore	Novel hollow fiber membrane development for water reuse: from lab study to commercialization
16:30-16:50	19:30-19:50	Evelyn Wang Massachusetts Institute of Technology	TBA
16:50-17:10	19:50-20:10	Ashok Gadgil University of California Berkley	Technology to support the human right to safe drinking water : Stopping arsenic poisoning
17:10-17:30	20:10-20:30	Mohamed Abdel Hamyd Dawoud Advisor, Water Resources, Abu Dhabi Environment Agency	The Future of treated wastewater reuse in the MENA region
17:30-17:50	20:30-20:50	Kevin Trenberth National Center for Atmospheric Research, USA	The changing water cycle

Time (GMT)		Session (B) – Date: 30 March 2021 Time: 15:00-17:50 GMT (Saudi Arabia Time GMT+3)	
(GMT)	(RIYADH)		
15:00-15:20	18:00-18:20	Thomas L. Crisman USF Water Institute	Sustainability of the Water, Energy, Food Nexus in the Humid Caribbean Versus Arid MENA: Projections and Innovative Solutions
15:20-15:40	18:20-18:40	Howard Wheeler University of Saskatchewan	Hydrological modelling for water resources management in arid environments
15:40-15:50	18:40-18:50	Break	
15:50-16:10	18:50-19:10	Jim. W. Hall Environmental Change Institute, University of Oxford	Understanding the growing challenge of water security in the Arab world
16:10-16:30	19:10-19:30	Damià Barceló Catalan Institute for Water Research, Girona, Spain	Microplastics pollution in mixed surface and treated wastewaters from Saudi Arabia. Can organic contaminants be absorbed by microplastic particles?
16:30-16:50	19:30-19:50	Zbigniew Kundzewicz Polish Academy of Sciences, Poznan	Changes in Flood Risk
16:50-17:10	19:50-20:10	Jay R. Lund University of California Davis, USA	Integrated water management portfolio analysis using hydro-economic modeling
17:10-17:30	20:10-20:30	Rita Colwell University of Maryland at College Park	Climate, Oceans, and Human Health: What Cholera Can Teach Us About COVID-19
17:30-17:50	20:30-20:50	Patricia Gober Arizona State University	"The fusion of science and stakeholder engagement for public policy in the water sector"



Day 3: 31 March 2021

Time		Session (A) – Date: 31 March 2021 Time: 15:00-17:35 GMT (Saudi Arabia Time GMT+3)	
(GMT)	(RIYADH)		
15:00-15:20	18:00-18:20	Joyashree Roy Professor of Economics at Jadavpur University, Kolkata	TBA
15:20-15:40	18:20-18:40	Sherif El-Safty National Institute for Materials Science, Japan	Cost-efficient and environmentally friendly nano-porous filter medium
15:40-15:50	18:40-18:50	Break	
15:50-16:10	18:50-19:10	Walid Abderrahman Vice President, Arab Water Council	Advanced governance frameworks for total treatment and reuse of industrial wastewater in Saudi Arabia: a case study
16:10-16:30	19:10-19:30	Polycarpus Falaras National Center for Scientific Research “Demokritos”, Athens, Greece	Scale up and demonstration of innovative photocatalytic nanofiltration technology for pollutants removal and water recovery
16:30-16:50	19:30-19:50	Bart Van der Bruggen Katholieke Universiteit, Leuven	Resource recovery from water with ion exchange membranes: focus on lithium
16:50-17:10	19:50-20:10	Shafiqul Islam Tufts University, USA	Water Diplomacy: A Principled Pragmatic Approach to Resolve Complex Water Problems
17:10-17:30	20:10-20:30	Mohamed Khayet University Complutense of Madrid, Spain	Robust surface modified composite flat sheet, hollow fiber, micro- and nano-fibrous membranes for desalination by membrane distillation technology
17:30-17:35	20:30-20:35	ICWRAE 9 Closing Remarks	

Time		Session (B) – Date: 31 March 2021 Time: 15:00-17:35 GMT (Saudi Arabia Time GMT+3)	
(GMT)	(RIYADH)		
15:00-15:20	18:00-18:20	H.E. Abdullah Ibrahim Al-Abdulkareem Governor, Saline Water Conversion Corporation (SWCC)	Sustainable water supply and desalination technology
15:20-15:40	18:20-18:40	Jesús Carrera Ramirez Institute for Environmental Assessment and Water Research, Barcelona	Recent advances in 'Enhanced Managed Artificial Recharge' to re-naturalise reclaimed water
15:40-15:50	18:40-18:50	Break	
15:50-16:10	18:50-19:10	J. Jaime Gómez-Hernández Universitat Politècnica de València, Spain	The importance of modeling hydraulic conductivity heterogeneity
16:10-16:30	19:10-19:30	Abdulkader Larabi University Mohammed V-Agdal, Morocco	Quantitative evaluation of the vulnerability to seawater intrusion in coastal aquifers using a new normalized groundwater age-based index: implications for management and risk assessments
16:30-16:50	19:30-19:50	Wolfgang Kinzelbach Swiss Federal Institute of Technology	A path towards sustainable aquifer management: example - the North China Plain
16:50-17:10	19:50-20:10	Martinus Theodorus van Genuchten Federal University of Rio de Janeiro, Brazil	Key software tools for understanding and managing water flow and contaminant transport processes in the vadose zone
17:10-17:30	20:10-20:30	Tissa Illangasekare Colorado School of Mines, USA	Challenges and opportunities in experiments to improve insights and advance modeling to address emerging global problems in hydrology and the environment
17:30-17:35	20:30-20:35	ICWRAE 9 Closing Remarks	



ICWRAE

The International Conference on Water Resources and Arid Environments



المؤتمر الدولي للموارد المائية والبيئة الجافة

