### Monday, July 24

#### Opening remarks (Whitaker 100)
- **9:30**
  - Plenary: Dr. Menachem Elimelech (Whitaker 100)
  - The Physical Basis of Water Transport in Reverse Osmosis Membranes: Solution-Diffusion or Pore-Flow Mechanism?

#### Keynote Session (Whitaker 100)
- **10:30**
  - Plenary: Dr. Masaru Kurihara (Whitaker 100)
  - Current Status and Future Trend of Seawater Desalination on Membrane Technology and Biotechnology as Sustainable Green Desalination in the 21st Century

#### Session 1: Membrane Materials (Whitaker 100)
- **11:30**
  - Prof. Meagan Mauter (Whitaker 100)
  - Dr. Allyson McGaughey, Princeton University
  - Dr. Shuo Zhang, King Abdullah University of Science and Technology
  - Prof. Hyun-Suk Oh, Seoul National University
  - Ms. Hanna Rosentreter, Technische Universität München

#### Session 2: Quorum Quenching (Whitaker 100)
- **12:00**
  - Prof. Xia Huang (Whitaker 100)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Kevin Pataroque, Yale University
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zhouyan Li, Tongji University

#### Session 3: Separation mechanisms (Whitaker 100)
- **12:30**
  - Prof. Ngoc Bui (Whitaker 100)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Session 4: Membrane Distillation (Jubel 121)
- **13:00**
  - Prof. Mohan Qin (Jubel 121)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Session 5: Membrane Materials (Whitaker 100)
- **13:30**
  - Prof. Meagan Mauter (Whitaker 100)
  - Dr. Allyson McGaughey, Princeton University
  - Dr. Shuo Zhang, King Abdullah University of Science and Technology
  - Prof. Hyun-Suk Oh, Seoul National University
  - Ms. Hanna Rosentreter, Technische Universität München

#### Session 6: Quorum Quenching (Whitaker 100)
- **14:00**
  - Prof. Xia Huang (Whitaker 100)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Kevin Pataroque, Yale University
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zhouyan Li, Tongji University

#### Session 7: MBR (Jubel 121)
- **14:30**
  - Prof. Ngoc Bui (Jubel 121)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Session 8: Electric/Thermal Membranes (Jubel 121)
- **15:00**
  - Prof. Mohan Qin (Jubel 121)
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Poster 1 (Whitaker 100)
- **14:00**
  - Dr. Xuesong Li, Tongji University
  - Mr. Tyler Malkoske, University of Washington
  - Dr. Allyson McGaughey, Princeton University
  - Prof. Hyun-Suk Oh, Seoul National University
  - Dr. Shuo Zhang, King Abdullah University of Science and Technology

#### Lunch (Jubel 121)

#### Session 9: Membrane Fouling (Whitaker 100)
- **14:30**
  - Prof. Eric Hoe, University of California, Los Angeles
  - Prof. How Yong Ng, Beijing Normal University, National University of Singapore
  - Prof. Shihong Lin, Vanderbilt University,
  - Prof. Young-Shin Jun, Washington University in St Louis

#### Session 10: Wastewater and Desalination (Jubel 121)
- **15:00**
  - Mr. Jordan Myers, Central Michigan University
  - Prof. Ali Alshami, University of North Dakota
  - Prof. Baolin Deng, University of Missouri
  - Prof. Ali Alshami, University of North Dakota
  - Prof. Ali Alshami, University of North Dakota

#### Session 11: Membrane Distillation (Jubel 121)
- **15:30**
  - Dr. Kwang-Ho Choo, Kyungpook National University
  - Mr. Ping-I Chou, Washington University in St Louis
  - Mr. Mateo Peralta, University of Missouri

#### Session 12: Ceramic Membranes (Jubel 121)
- **16:00**
  - Mr. Kevin Pataroque, Yale University
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Coffee Break (Whitaker 100)

#### Poster 2 (Whitaker 100)
- **16:30**
  - Dr. Boyan Xu, Beijing Normal University
  - Dr. Giorgio MANNINIMA, Palermo University
  - Dr. Yifan Gao, Massachusetts Institute of Technology

#### Poster 3 (Jubel 121)
- **17:00**
  - Dr. Allynson McGaughey, Princeton University
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University

#### Poster 4 (Jubel 121)
- **17:30**
  - Dr. Yifan Gao, Massachusetts Institute of Technology
  - Mr. Matthew Ferby, University of Washington
  - Dr. Chia-Hung Hou, National Taiwan University
  - Mr. Zuhuyan Li, Tongji University
  - Dr. Yifan Gao, Massachusetts Institute of Technology
## Tuesday Morning, July 25

### Schedule:

#### Session 9: Drinking Water Treatment
- **Chair:** Prof. Shihong Lin
- **Venue:** Whitaker 100
- **Time:** 10:00

#### Session 10: Membrane Fouling
- **Chair:** Prof. XUE JIN
- **Venue:** Brauer 12
- **Time:** 10:20

#### Session 11: Wastewater Treatment
- **Chair:** Prof. Baocia Mi
- **Venue:** Jubel 121
- **Time:** 10:40

#### Session 12: Reactive Membranes
- **Chair:** Prof. Young-Shin Jun
- **Venue:** Green 0120
- **Time:** 10:50

### Sessions Overview:

- **Stream:** Drinking Water and Systems
- **Session:** Membrane Fouling
- **Speakers:**
  - Dr. Pierre Berube, The University of British Columbia: Re-Engineering Membrane Technologies for Drinking Water Treatment in Small, Remote and/or Marginalized Communities
  - Prof. Kuichang Zuo, National University of Singapore: Advanced wastewater treatment by ozonation, coagulation and ceramic microfiltration for WWTP effluent reuse
- **Speakers:**
  - Dr. Marcel Koziolek, For EMPA: Ceramic Membrane Systems for Wastewater Treatment and Recycling
  - Prof. Maria Fidalgo, University of Missouri: Development of a new modular membrane filtration unit including reactant (enzyme) for the degradation of micropollutants in water and wastewater
- **Speakers:**
  - Dr. Junpeng Zheng, PWT Water Technology: Carbonate scaling in FO treatment for ROC
  - Prof. Martin Spruijt, PWT Water Technology: Process intensification in hybrid oxidation-filtration process via catalytic ceramic membrane for micropollutant removal
- **Speakers:**
  - Dr. Jeffrey McCutcheon, University of Connecticut: Membrane fouling: from an inherent problem to a controllable issue
  - Dr. Val Frenkel, GREELEY and HIGHER PERFORMANCE: Invited: Enhanced Ammonia Recovery from Wastewater Using Solar Photothermal Membrane Distillation

### Lunch and Coffee Break:
- **Time:** 10:00
- **Venue:** Whitaker 100

### Tuesday Afternoon, July 25

### Schedule:

#### Session 17: Drinking Water
- **Chair:** Prof. Pierre Berube
- **Venue:** Whitaker 100
- **Time:** 12:00

#### Session 18: Membrane Biofouling
- **Chair:** Dr. XUE JIN
- **Venue:** Brauer 12
- **Time:** 12:00

#### Session 19: Wastewater Treatment and Reuse
- **Chair:** Prof. Baocia Mi
- **Venue:** Jubel 121
- **Time:** 14:00

#### Session 20: Electrified/Thermal Membrane Processes
- **Chair:** Prof. Young-Shin Jun
- **Venue:** Green 0120
- **Time:** 14:00

### Sessions Overview:

- **Stream:** Drinking Water and Systems
- **Session:** Membrane Fouling
- **Speakers:**
  - Dr. Pierre Berube, The University of British Columbia: Dynamic Operating Schema for Resilient, Affordable, Decarbonized Water Systems
  - Prof. Shiqiang Zou, National University of Singapore: Water Reuse from Wastewater Treatment by Conventional Activated Sludge and Ultrafiltration Membranes: the case Study of Corleone - Italy
- **Speakers:**
  - Prof. Maria Fidalgo, University of Missouri: Development of a new modular membrane filtration unit including reactant (enzyme) for the degradation of micropollutants in water and wastewater
  - Dr. Martin Spruijt, PWT Water Technology: Process intensification in hybrid oxidation-filtration process via catalytic ceramic membrane for micropollutant removal

### Poster 2:
- **Time:** 13:00
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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>14:30</td>
<td>Comparison of the effect of nutrient concentration on biofouling</td>
<td>Dr. Inna Zaslavskii, IDE Technologies Group</td>
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<tr>
<td>14:30</td>
<td>Treatment of Industrial Wastewater for a California Wine Packaging Facility</td>
<td>Dr. Mavis Wong, Magna Imperio Systems</td>
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<td>14:30</td>
<td>Faraday Rhenium Recovery with Polyvinyl Ferrocene (PVF) Coated Carbon Electrodes</td>
<td>Ms. Yuri Li, University of Illinois Urbana Champaign</td>
</tr>
<tr>
<td>14:50</td>
<td>Highly efficient wastewater treatment and fouling mitigation by living membrane® in electro-encapsulated self-forming membrane bioreactor</td>
<td>Dr. MINGHENG LI, California State Polytechnic University</td>
</tr>
<tr>
<td>14:50</td>
<td>Innovative membrane-based approach for high-strength industrial wastewater reuse</td>
<td>Dr. Samik Bagchi, Digested Organics, University of Salt Lake</td>
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<td>14:50</td>
<td>Electrolysis and membrane contactor for recovering plant nutrients from food wastes for bio-based fertilizer applications</td>
<td>Mr. Francis Kotoka, Ghent University</td>
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<td>15:10</td>
<td>Fouling potential membrane based desalination plants during algal blooms</td>
<td>Mrs. Anggie Cala, Universidad del Norte</td>
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<tr>
<td>15:10</td>
<td>Membrane bioreactor technology for the treatment of landfill leachate</td>
<td>Ms. Nouraine el hachimi, University of Quebec</td>
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<tr>
<td>15:10</td>
<td>Effective nutrient recovery from digester centrate assisted by in situ production of acid/base in a novel electrochemical membrane system</td>
<td>Mr. Fujin Liu, Washington University in St. Louis</td>
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<tr>
<td>15:30</td>
<td>Coffee Break</td>
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<td>15:30</td>
<td>Session 21: Water Systems</td>
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<td>15:30</td>
<td>Session 22: Membrane Fouling</td>
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<td>15:30</td>
<td>Session 23: Membrane Resource Recovery</td>
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<td>Session 24: Electrified/Thermal Membrane Processes</td>
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<td>15:30</td>
<td>Stream: Drinking Water Systems</td>
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<td>Wastewater and Desalination</td>
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<td>Process Innovation and Integration</td>
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<td>Prof. Pierre Berube</td>
<td>Prof. Gilin Li</td>
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<td>Prof. Kuichang Zou</td>
<td>Prof. Shijiang Zou</td>
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<td>Whitaker 100</td>
<td>Brasier 12</td>
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<td>Venue</td>
<td>Juel 121</td>
<td>Green 0120</td>
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<td>15:50</td>
<td>The Design of Anti-scalants for Gypsum and Silica Scaling in Membrane Desalination: A Systematic Study</td>
<td>Prof. Yongsheng Chen, Georgia Institute of Technology</td>
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<td>15:50</td>
<td>Invited: An Emerging Membrane Platform based on Crystalline Supramolecular Frameworks for Selective Ion Capture from Water</td>
<td>Prof. Ngoc But, The University of Oklahoma</td>
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<td>15:50</td>
<td>Keynote: Minus Approach to Shift Water Treatment Paradigm</td>
<td>Prof. Qilin Li, Rice University</td>
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<td>15:50</td>
<td>Ms. Yiqin Yao, Colorado State University</td>
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<td>16:20</td>
<td>EFFECT OF DIFFERENT ULTRAVIOLET STRENGTHS ON PHOTOLYTIC QUORUM QUENCHING IN LAB-SCALE MBRs</td>
<td>Dr. Muhammad Ali, Trinity College University (A Chartered University)</td>
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<td>16:20</td>
<td>Membrane-based resource recovery from municipal wastewater: Direct membrane filtration (DMF) not only for carbon redirection but also for effective pretreatment for ammonium recovery</td>
<td>Dr. Muhammad Usman, Hamburg University of Technology</td>
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<td>16:20</td>
<td>Electro-sorption and -desorption of aqueous natural organic matter by conductive ultrafiltration membranes</td>
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<td>Dr. Mathias Ernst, Hamburg University of Technology</td>
<td>Prof. Gregory Koshir, University of British Columbia</td>
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<td>Prof. Jongho Lee, The University of British Columbia</td>
<td>Dr. Yang Li, Tongji University</td>
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<td>Examination of Fouling Layer Development Based on In Situ and Ex Situ Measurements of the Absorbance of Feed, Filtrate and PES Membrane</td>
<td>Mr. Md Nurul Acher Shishir, The University of British Columbia</td>
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<td>Medium-Chain Fatty Acids Recovery from Organic Waste Streams Using Supported Liquid Membranes</td>
<td>Mr. Xiaohu Zhai, Tongji University</td>
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<td>Electrochemical Membrane with Metal Heteroatom Interface for Bromate Reduction: Efficacy and Mechanism</td>
<td>Dr. Xuerui Gao, Tongji University</td>
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<td>Understanding Flow Dynamics in Membrane Distillation: Effects of Reactor Design on Polarization</td>
<td>Dr. Yinuo Yao, Stanford University</td>
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<td>17:20</td>
<td>Roles of Anion-Cation Coupling Transport and Dehydration Induced Ion Membrane Interaction in Precise Separation of Ions by Nanofiltration Membranes</td>
<td>Prof. Katsuki Kimura, Hokkaido University</td>
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<td>17:20</td>
<td>Preparation of poly(piperazine-amine)nanofilms with micro-wrinkled surface via nanoparticle-templated interfacial polymerization: Performance and mechanism</td>
<td>Dr. Yang Li, Tongji University</td>
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<td>Mr. Fubin Liu, Washington University in St. Louis.</td>
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<td>Robustness of Nanostructured Membranes for High-Strength Industrial Wastewater Treatment</td>
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<td>18:30</td>
<td>Gala Dinner</td>
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09:00  
Spiral-Wound Ultrafiltration Membrane Flushing Modeling for Secondary Wastewater Upgrading for Unrestricted Application
Prof. Gideon Oron, Ben Gurion University of the Negev  
Mr. Hayato Nakagawa, Hokkaido University  
Mr. Albert Galizia, LEQIUA - University of Girona  
Mr. Ian Song, University of Minnesota, Twin Cities

09:20  
Transport of microplastic fibers through dynamic imaging analysis in ceramic membrane filtrations
Ms. Soyoun Kim, Ewha Womans University  
Mr. Takumi Nakamura, Hokkaido University  
Mr. Tyler Malkoske, University of Toronto  
Prof. Giorgio MANNINA, Palermo University

09:40  
11 Years of Continuous Operation of a Membrane Based Water Reuse System at a Food and Beverage Facility
Mrs. Sara Theodoulou, Veolia Water Technologies and Solutions  
Prof. Chaiphip Merrians, Chulalongkorn University  
Dr. Xue Jin, Wuhan Wharf Co., Ltd.  
Dr. Avital Dror-Ehre, IDE Technologies Group

10:00  
Coffee Break

Session 29: Water Systems  
Session 30: Membrane Fouling  
Session 31: Membrane fouling  
Session 32: Selective Membrane Processes

Stream: Drinking Water and Systems  
Membrane Fouling  
Wastewater and Desalination  
Process Innovation and Integration

Chair: Prof. Baolin Deng  
Prof. Suizhang  
Dr. Vui Frenkel  
Prof. Maria Fidalgo

Venue: Whitaker 100  
Brauer 12  
Jubel 121  
Green 0120

10:20  
Dimensional Analysis to Establish Relationships Between Energy Input and Solids Removal for Particle Separation (MBR) Membranes
Keynote: Improving the sustainability of membrane-based wastewater treatment: From membrane cleaning to membrane regeneration
Keynote: A Reverse-Selective Ion Exchange Membrane for the Selective Transport of Phosphate

Dr. Glen Daigler, University of Michigan  
Prof. Zhewei Wang, Tongji University  
Dr. XUE JIN, Oregon State University  
Prof. David Jassby, UCLA

10:50  
Techno-economical Perspective for Marine-culture Novel Treatment by AGMD Process
Optimizing the performance of Passive Gravity Driven Membrane Filtration with optimal chemical cleaning protocols
Optimizing the performance of Passive Gravity Driven Membrane Filtration with optimal chemical cleaning protocols

Prof. Baolin Deng  
Prof. Suizhang  
Dr. Vui Frenkel  
Prof. Maria Fidalgo

Venue: Whitaker 100  
Brauer 12  
Jubel 121  
Green 0120

11:10  
Evaluating the Sustainability Impacts of Water, Wastewater and Biosolids Projects Through Greenhouse Gas Quantification
Physical cleaning methods for ceramic membrane filtration of spent filter backwash water: backwashing vs. backpulsing
From dewatering to cultivation—the role of forward osmosis and the evolution of microbial fouling mechanisms
A sustainable nutrient recovery from wastewater using single and dual bioelectrochemical/electrochemical treatments systems

Ms. Aleah Henry, Veolia Water Technologies and Solutions  
Ms. Charlotte Kas, DVGW-Forschungsstelle TUHH  
Prof. Li-Hua Cheng, Zhejiang University  
Dr. Rehah ElSayed, National Research Centre (NRC)

11:30  
Assessment of Cooling Tower Blowdown Reuse Feasibility at Chemical Industrial Site
Elucidating the role of feed water constituents in governing the chemical cleaning performance of aged ultrafiltration membranes
Assessment of organic characterisation towards better management of ultrafiltration during algal blooms
Anaerobic microbial electrochemical fluidized membrane bioreactor for domestic wastewater treatment and reuse with energy recovery

Prof. Baolin Deng  
Prof. Suizhang  
Dr. Vui Frenkel  
Prof. Maria Fidalgo

Venue: Whitaker 100  
Brauer 12  
Jubel 121  
Green 0120

12:00  
Lunch

Wednesday afternoon, July 26
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Plenary: Dr. Miriam Balaban</td>
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<td>(Whitaker 100)</td>
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<td>16:00</td>
<td>Closing Remarks and Award</td>
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<td>(Whitaker 100)</td>
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Poster 1, 24th July 2023, 1:00pm – 2:00pm

Renewable water and energy: exploration of saline gradient in the Colombia's Caribbean region
Anggie Cala (Colombia) (1. 1 Department of Civil and Environmental Engineering, Instituto de Estudios Hidráulicos y Ambientales IDEHA, Universidad del Norte)

Membrane Design Criteria and Process-Scale Viability of Pressure-driven Distillation
Weifan Liu (United States) (1. Vanderbilt University, 2. University of Colorado Boulder)

Optimization of filtration and backflushing properties of polymer nanocomposite based mixed depth bed upflow matrix filters to purify water
Lamia Sultana (Australia) (1. PhD Candidate, UNSW, Canberra)

MoS2-based Multifunctional Membranes for Oxyanion Removal
Monong Wang (United States) (1. University of California, Berkeley)

Influence on the scale-up operation and surface modification parameters on membrane capacitive deionization performance
Mengshan Lee (Taiwan) (1. National Kaohsiung University of Science and Technology)

Desalination of Caspian Seawater and Removal of Iron and Sulfate via Reverse Osmosis to Mitigate Drinking Water Shortage
Masoumeh Akbarpour (United States) (1. University of Central Florida, 2. K. N. Toosi University of Technology)

Removal of estrogens using an algae-based membrane bioreactor
Pei-Hsun Wu (Taiwan) (1. National Taiwan University)

Reduced Low-Pressure Membrane Fouling by Inline Coagulation Pretreatment for a Colored River Water
Joseph Ladouceur (Canada) (1. University of Ottawa)

Water Reclamation from Candy waste using Membrane Technology
Amal ElGohary Ahmed (Austria) (1. TU Wien)

A Comparative Study of Microbial Quorum Quenching and Photolytic Quorum Quenching for Inhibiting Biofouling in a Lab-scale MBR
Farah Khalid (Pakistan) (1. Forman Christian College (A Chartered University))

Evaluation of PES-UF membrane incorporated with graphene oxide (PES-GO) and molybdenum disulfide (PES-MoS2) for drinking water treatment
Eduardo Subtil (Brazil) (1. Federal University of ABC, 2. University of São Paulo)

Conventional pretreatment evaluation for Seawater Osmosis Inverse coupled with Salinity Gradient Energy (SGE) by Reverse Electrodialysis (RED) using real samples of Magdalena River and Caribbean Sea.
Stefany Fernandez (Colombia) (1. Young Researcher)
Membrane Filtration as a Strategy For Seawater Desalination as a Resource for Water Electrolysis and H2 Production
Camila Cabeza (Austria), Camila Rodriguez M. (Austria), Michael Harasek (Austria) (1. TU Wien, 2. Technische Universität Wien)

Poster2, 25th July 2023, 1:00pm – 2:00pm

Opportunity of Quorum Quenching study in developing countries for better wastewater treatment using membrane bioreactor
Shinho Chung (Pakistan) (1. Forman Christian College (A Chartered University))

Biofilm research in undergraduate settings
Gisella Lamas-Samanamud (United States), Garrett Matheny (United States), Savannah Hunt (United States), Hyun-Tae Hwang (United States) (1. University of Kentucky - Paducah)

Electrospun fibers for controlled release of anti-quorum sensing molecules for biofouling mitigation in MCE membranes
Amos Taiswa (United States), Jessica Andriolo (United States), Jack Skinner (United States) (1. Montana Technological University)

Quantifying the roles of multi-component foulants in membrane fouling evolution via advanced factor analysis of sequential ATR-FTIR spectra
Yizhe Lai (China), Hao Xu (China), Yirong Xu (China), Xinzhuo Liu (China), Kang Xiao (China) (1. University of Chinese Academy of Sciences)

Comparative study of passive & gravity-driven membrane systems with the characterization of biofilm growth in drinking water treatment
Varshaa Kumaran (Canada), Pierre Berube (Canada), Leili Abkar (Canada), Sara Beck (Canada) (1. Department of Civil Engineering, The University of British Columbia, 2. The University of British Columbia)

ROLE OF FILAMENTOUS FUNGI IN MEMBRANE-AERATED BIOFILM REACTORS (MABRs)
Alejandro Martin-Linares (United States), Yanina Nahum (United States), Emily Clements (United States), Erika Espinosa-Ortiz (United States), Bumkyu Kim (United States), Robert Nerenberg (United States) (1. University of Notre Dame, 2. Montana State University)

Relevance of Extended Versus Typical Rapid Mixing HRTs During Bench-Scale Continuous-Flow Coagulation-UF
Tyler Malkoske (Canada) (1. University of Toronto)

Recovery of Potassium hydroxide from the spent solution of alkaline electrolyte battery wastes through membrane processes
Amal ElGohary Ahmed (Austria), Michael Harasek (Austria), Saeed Gul (Pakistan), Camila Cabeza (Austria), Mayuki Cabrera (Austria) (1. TU Wien, 2. University of Engineering and Technology, Peshawar)

Membrane Technology for Treatment of Starch Hydrolysates
Camila Cabeza (Austria), Amal ElGohary Ahmed (Austria), Michael Harasek (Austria) (1. TU Wien)
Effect of Surfactants on Reverse Osmosis Membrane Performance
Aymen Halleb (Japan)1, Mitsutoshi Nakajima (Japan)2, Fumio Yokoyama (Japan)2, Marcos Antonio das Neves (Japan)2 (1. University of Tsukuba,, 2. University of Tsukuba)

Studies with Spiral wound IEMB Contactor for Nitrate Removal from Contaminated
Akshaya Verma (Israel)1, Zeev Ronen (Israel)1, Yoram Oren (Israel)1, Jack Gilron (Israel)1 (1. Ben-Gurion University)

Optimization of porous membrane filtration focused on sewage concentration for detection of enteric enveloped viruses
Rodrigo Ragio (Brazil)1, Diego Alberto Tavares (Brazil)2, Simone Benassi (Brazil)2, Roseli Benassi (Brazil)2, Rodrigo Bueno (Brazil)2, Eduardo Subtil (Brazil)1 (1. Federal University of ABC, 2. Fundação Parque Tecnológico de Itaipu)

Influence of organic foulants to membrane ageing
Baohui Jia (Canada)1, Rahul Dutta (Canada)2, Bian Jia (Canada)3, Robert Andrews (Canada)3, Pierre Berube (Canada)3 (1. Department of Civil Engineering, The University of British Columbia, 2. University of Toronto)