Speaker Biographies - AWWA/AMTA 2022 Membrane Technology Conference

First Name	Last Name	Title	Company	Session Code	Bio
Brent	Alspach	Director of Applied Research	Arcadis	PCW01-02	Brent Alspach holds both BS and MS degrees in Civil and Environmental Engineering from Cornell University. Brent joined Arcadis in 1997 and serves as the company's Director of Applied Research. He is Chair of the AWWA Water Quality & Technology Division Trustees and a past President of AMTA, currently Chairing the organization's Fellowship Committee. His work on integrated desalinated seawater into existing supplies received the Best Paper Award at the 2012 Membrane Technology Conference.
Ben	Movahed	President	WATEK Engineering Corporation	PCW01-03	Mr. Movahed has a Master of Science in Environmental Engineering from the University of Maryland and a Bachelor of Science in Civil Engineering from the University of Houston. He is a Registered Professional Engineer in seven states and is a Board Certified Environmental Engineer by the Academy of Environmental Engineers. Ben has 35 years of engineering experience in study, evaluation, design and construction services for water facility projects. Mr. Movahed is specialized in membrane technologies and has hands-on experience with over 80 advanced treatment technology projects, such as Brackish and Seawater Desalination, Reverse Osmosis, Nanofiltration, EDR, Microfiltration, Ultrafiltration and MBR. He has been an AMTA Board member since 1999 and was president of AMTA from 2002 to 2004.
Troy	Walker	Reuse Practice Leader	Hazen and Sawyer	PCW01-04	Troy Walker is the Water Reuse Practice Lead for Hazen and Sawyer. He has over 25 years-experience in the piloting, design and operation of advanced water treatment system for potable reuse having worked on projects in his native Australia, Asia and the United States. He has a Bachelors Degree in Chemical Engineering from the University of New South Wales, Australia
Dustin	Whynman		Carollo Engineers	PCW02-02	Dustin has been with Carollo Engineers for 9 years. His work primarily focuses on advanced treatment with membranes for drinking water and water reuse. Dustin currently lives in Idaho and enjoys cycling and mountain biking. He earned is both his undergraduate and graduate degrees in Civil and environmental engineering from Clarkson University in Potsdam, NY.

James	Vickers	Vice President	Separation Processes Inc.	PCW02-07	James C. Vickers, P.E. is President of Separation Processes, Inc.(SPI), a membrane engineering consulting firm based in Carlsbad, CA. Since 1988, he has been actively involved in the advancement of membrane technology for drinking water and recycled water treatment. Mr. Vickers is a noted author and participated in the development of publications for the USEPA, AWWA and WE&RF. He has a degree in Chemical Engineering form Youngstown State University and a Masters' degree in Engineering Administration for George Washington University. Mr. Vickers is a registered Professional Engineer in the State of California as well as five other States.
Troy	Walker	Reuse Practice Leader	Hazen and Sawyer	PCW03-02	Troy Walker is the Water Reuse Practice Lead for Hazen and Sawyer. He has over 25 years-experience in the piloting, design and operation of advanced water treatment system for potable reuse having worked on projects in his native Australia, Asia and the United States. He has a Bachelors Degree in Chemical Engineering from the University of New South Wales, Australia
James	Vickers	Vice President	Separation Processes Inc.	PCW03-03	James C. Vickers, P.E. is President of Separation Processes, Inc.(SPI), a membrane engineering consulting firm based in Carlsbad, CA. Since 1988, he has been actively involved in the advancement of membrane technology for drinking water and recycled water treatment. Mr. Vickers is a noted author and participated in the development of publications for the USEPA, AWWA and WE&RF. He has a degree in Chemical Engineering form Youngstown State University and a Masters' degree in Engineering Administration for George Washington University. Mr. Vickers is a registered Professional Engineer in the State of California as well as five other States.
Eric	Owens		Water Replenishment District of S. Calif.	PCW03-07	Eric Owens holds a B.S. degree in Chemical Engineering from the University of California at Berkeley, and is a registered professional engineer in California. He is currently the Manager of Engineering & Operations at the Water Replenishment District of Southern California (WRD). Prior to joining WRD, Eric worked for 5 years for West Basin Municipal Water District and fourteen years with Separation Processes, Inc, a consulting-engineering firm focused on membrane technologies and other advanced treatment processes. Eric currently serves on the Board of Directors for the American Membrane Technology Association (AMTA), and has previously served as President for the Southwest Membrane Operator Association (SWMOA) Board of Directors. His more than twenty years of experience includes providing design, startup, and operational support services for a variety of municipal agencies using membrane technologies for water and wastewater treatment.

Troy	Walker	Reuse Practice Leader	Hazen and Sawyer	PCW03-08	Troy Walker is the Water Reuse Practice Lead for Hazen and Sawyer. He has over 25 years-experience in the piloting, design and operation of advanced water treatment system for potable reuse having worked on projects in his native Australia, Asia and the United States. He has a Bachelors Degree in Chemical Engineering from the University of New South Wales, Australia
James	Vickers	Vice President	Separation Processes Inc.	PCW03-08	James C. Vickers, P.E. is President of Separation Processes, Inc.(SPI), a membrane engineering consulting firm based in Carlsbad, CA. Since 1988, he has been actively involved in the advancement of membrane technology for drinking water and recycled water treatment. Mr. Vickers is a noted author and participated in the development of publications for the USEPA, AWWA and WE&RF. He has a degree in Chemical Engineering form Youngstown State University and a Masters' degree in Engineering Administration for George Washington University. Mr. Vickers is a registered Professional Engineer in the State of California as well as five other States.
Eric	Owens		Water Replenishment District of S. Calif.	PCW03-08	Eric Owens holds a B.S. degree in Chemical Engineering from the University of California at Berkeley, and is a registered professional engineer in California. He is currently the Manager of Engineering & Operations at the Water Replenishment District of Southern California (WRD). Prior to joining WRD, Eric worked for 5 years for West Basin Municipal Water District and fourteen years with Separation Processes, Inc, a consulting-engineering firm focused on membrane technologies and other advanced treatment processes. Eric currently serves on the Board of Directors for the American Membrane Technology Association (AMTA), and has previously served as President for the Southwest Membrane Operator Association (SWMOA) Board of Directors. His more than twenty years of experience includes providing design, startup, and operational support services for a variety of municipal agencies using membrane technologies for water and wastewater treatment.
Daniela	Panfil		Hazen and Sawyer	THU01-01	Daniela Panfil is a project manager and engineer at Hazen and Sawyer focusing in water treatment evaluation, design, construction and operation. She has experience with membrane treatment technology, adsorption, ion exchange, and other conventional treatment processes. She also is the regional lead for the sustainability practice group within Hazen and Sawyer and is an active member of AZ Water.
Kirk	Lai		Hydranautics	THU01-02	

Carl	Spangenberg		Irvine Ranch Water Dist	THU01-03	Carl Spangenberg is a registered Civil Engineer in California with over 35 years experience in the water, wastewater, and recycled water industry. Carl provides technical support to the Water Operations Treatment section for four membrane plants, performs groundwater well production performance evaluations and well rehabilitations, various treatment retrofit, repair, and restoration projects, and many other duties for the Irvine Ranch Water District.
Matt	James		Avista Technologies, Inc.	THU02-01	
Tyler	Malkoske	PhD Student	University of Toronto	THU02-02	PhD Candidate with the Drinking Water Research Group, University of Toronto
Karla	Kinser	Project Manager	Burns & McDonnell	THU02-03	Karla is a 29-year membrane specialist who has held multiple global practice leader positions and worked for two manufacturers. Her area of expertise is supporting operating membrane filtration plants. She is a graduate of University of Illinois.
Kurt	Dahl	Managing Director	Permeate Partners	THU03-01	Kurt is a Chemical Engineer with over 20 years' expeience in water and wastewater treatment. Kurt is the founder and manager of Permeate Partners - a specialist service provider in Australia which designs, delivers and operates membrane based treatment systems. Over the past 10 years Kurt has been actively developing and seeking safe and pragmatic approaches to LRV credits for membrane bioreactors.
Amos	Branch		Carollo Engineers	THU03-01	
Jayme	Klecker		AE2S	THU03-02	Jayme has over 20 years of municipal and industrial wastewater engineering experience. His project background encompasses all aspects of capital projects, including master planning, funding development, project development, planning, regulatory review, permitting, preliminary and final design, bidding and construction administration, and start-up. Jayme also holds a Class A Minnesota wastewater operators license, and assists operators with troubleshooting and optimization.

Rick	Bush	Director of Public Works	City of Sturgis	THU03-02	In 2009 I was hired by the City of Sturgis, to be the Director of Community Development, a newly created position that would help to facilitate all aspects of economic and community development for the City of Sturgis. In this role my responsibilities included managing the Planning & Zoning, Building & Inspections, Code Enforcement and GIS Divisions. In June of 2012 I was hired as the Public Works Director to replace our current director who had decided to retire after a long tenure with the City of Sturgis. As the Director of Public works, I am responsible for the day-to-day, strategic and financial operations of the Streets, Snow-Removal, Wastewater, Stormwater, Sanitation, Rubble Site, Buildings, Fleet Services and GIS Divisions. In addition I am responsible to develop, plan and implement long and short term divisional goals, strategies and objectives including capital improvements, equipment replacement schedules, determining policies and making technical decisions. I oversee and administer the City's procurement and contract administration for all capital improvement projects.
Kevin	Daniels		Hazen and Sawyer	THU03-03	Kevin Daniels has been a project engineer for Hazen and Sawyer for over three years. He supports efforts in innovative water/wastewater design projects and advanced technology evaluation/implementation for drinking water, water reuse, and wastewater utilities. Prior to joining Hazen and Sawyer, he worked extensively in assessing water quality through analytical chemistry and toxicology, working on multi-disciplinary projects related to designing, evaluating, and monitoring the water quality associated with different treatment technologies.

Steve	Walden		Steven Walden Consulting	THU04-01	Steven Walden- Bio Steve has over 40 years of experience in the Texas water arena. Under his leadership, TCEQ's Water Utilities Division was recognized nationally for innovation and collaboration. Steve is active in Texas Section of AWWA, Texas Water Conservation Association and as a Board member of the Texas Desalination Association. Steve has received several water industry awards including AWWA's "Fuller Award" and the "WT Ballard" award for lifetime contributions to the water industry in Texas. Following retirement from TCEQ, Steve launched a successful consulting business focused on: • Assisting public water suppliers create efficient regulatory compliance strategies, and • Assisting water technology companies to create and implement growth strategies for Texas and the US Steve Walden Consulting 13130 Bayfield Dr Austin, TX 78727 512-971-7151 stevenwalden@sbcglobal.net
Mike	Snodgrass		Ovivo USA, LLC	THU04-02	Mike is the SiC Technology Leader for Ovivo's Municipal division. He is responsible for establishing and guiding the technical and commercial direction of Ovivo's SiC Membrane across all municipal water and wastewater applications. Mike has over 20 years of experience working with membranes. With roles in R&D, Product Development, Manufacturing, and Product Support, Mike has been highly involved in all aspects of the membrane business. Mike received his B.S. in Chemical Engineering from the University of California, Santa Barbara.
Tony	Powell	Applications Mgr	Purifics	THU04-03	Mr. Powell is a chemical engineer that has been designing and applying ceramic membranes in the industrial, municipal and reuse sectors for nearly 30 years. The vast applications experience obtained has been critical in the design of both the ceramic membrane itself, and the system that utilizes the ceramic membranes.

Javad	Roostaei	Principal Data Scientist	Hazen and Sawyer	THU05-01	Bio- Javad Roostaei As a principal data scientist at Hazen and Sawyer, Dr. Roostaei is working on developing and deploying machine-learned models in water industry projects. He has developed real-time data cleansing and normalization tools to make the data ready for ML applications and also trained ML models. Before joining Hazen, Dr. Roostaei was a machine learning postdoctoral researcher at the University of North Carolina Chapel Hill, and he was developing Bayesian Network predictive models for PFAS and Lead Contamination. Dr. Roostaei has two patents and published more than ten peer-reviewed papers in the area of machine learning. He has a Ph.D. in civil engineering, and a master's in computer science from Wayne State University, Detroit, MI.
Steven	Duranceau	Professor	University of Central Florida CECE	THU05-02	Dr. Steven J. Duranceau is a Professor of Environmental Engineering and Director of the Environmental Systems Engineering Institute at UCF. He is a recognized authority in potable water quality engineering and advanced treatment operations (UF, NF, RO, GAC, aeration). He performs numerous distribution system corrosion control and disinfection by-product studies. Dr. Steve has supervised a number of Doctoral and Master's students that have conducted research in Florida, Georgia, California, and the Cayman, Hawaiian and Marianas Islands. He currently serves on the editorial advisory board of Journal Desalination and Water Treatment. He is past-President of AMTA, is a licensed professional engineer in Florida and has served as engineer-of-record on several advanced water treatment plants in his former role as an executive in a national engineering firm.
Jonathan	Kuntz		Suez Groupe - CIRSEE	THU05-03	Jonathan began his career at SANOFI in 2012 as technician where he worked on membrane filtration applied to pharmaceutical processes. Then he started in 2013 an engineering school taking part of a part-time experiential program in partnership with CPCU company (ENGIE). During these 3 years, he worked on analytical monitoring and treatment improvement of water treatment processes for boilers producing steam for urban heating. Jonathan has joined the CIRSEE in 2016 where he works on technical support missions and research projects on nanofiltration and reverse osmosis membranes applied for drinking water production.

Shaleena	Smith	Process/Applications Engineering Manager	Safbon Water Technology, Inc.	THU06-01	During her 14 yr career, Shaleena has been responsible for R&D projects, pilot operation and Process Design/Engineering in the Industrial and Municipal markets focusing on membrane systems (MF/UF, RO) in desalination (Brackish, Seawater) and Recycle/Reuse applications. She holds a Bachelor's and Master's degree from the University of South Florida. Shaleena is presently the Manager of Process/Applications Engineering with SWT, a global water/wastewater treatment and solutions company with headquarters in Tampa, FL, USA.
Yaron	Egozy	Operation Manager & CTO	IDE Technologies - OMIS Water	THU06-02	
Steve	Alt	Project Technologiest Membrane Desalination	Jacobs	THU06-03	Mr. Alt is a chemical engineer and membrane and desalination technologist with the Water Business Group in Jacobs San Diego office. He has more than 27 years of membrane technology experience in the application, design, startup, commissioning, and pilot testing of membrane processes (microfiltration (MF), ultrafiltration (UF) and reverse osmosis (RO)) on a variety of environmental water and wastewater projects.
Brad	Reisinger			THU07-01	
Frederick	Tack	Technical Director	GHD Inc.	THU07-02	
Jared	Hartwig	Senior Associate	Hazen and Sawyer	THU07-03	Mr. Hartwig is a Senior Associate in the Charleston office of Hazen and Sawyer. He has thirteen (13) years of experience in the design and construction of water and wastewater treatment facilities throughout the country specializing in Preliminary Treatment and MBR mechanical design. Prior to Hazen, he attended Clemson University where he graduated with a degree in Civil Engineering, and minor in Environmental Engineering, in 2008. He lives in Charleston with his wife Ariel and two children, Connor and Chelsea.

Alan	Daza	CEO/ Technical Director	Safbon Water Technology, Inc.	THU08-01	Alan R. Daza, P.Eng. Over his 25 year career as a licensed professional engineer, Alan has been responsible for process design, engineering, sales and business development of water/wastewater systems for the Power, Oil & Gas, Mining and Municipal markets. A graduate from the University of Ottawa in Canada with degrees in Chemical Engineering and a Master's in Engineering Management. Alan is presently the Technical Director/CEO for Safbon Water Technology, Inc. , a global water/wastewater treatment and solutions company with headquarters in Tampa, FL, USA.
Megan	Low	Director of Process Solutions	Saltworks Technologies	THU08-02	
Vadim	Malkov	Principal Product Applications Manager	Hach Company	THU08-03	Dr. Vadim Malkov (PhD in Chemistry) joined Hach in 2002. His experience encompasses industrial and municipal water applications, with overall more than 30 years in various fields of chemistry, including teaching. At Hach, Vadim has participated in development of several process analyzers, chemistries, and applications in water analysis. Vadim has published many papers in scientific and professional journals and presented at national and international conferences. His current position is Principal Product Applications Manager, focusing on Municipal market.
Brent	Alspach	Director of Applied Research	Arcadis	THU09-01	Brent Alspach holds both BS and MS degrees in Civil and Environmental Engineering from Cornell University. Brent joined Arcadis in 1997 and serves as the company's Director of Applied Research. He is Chair of the AWWA Water Quality & Technology Division Trustees and a past President of AMTA, currently Chairing the organization's Fellowship Committee. His work on integrated desalinated seawater into existing supplies received the Best Paper Award at the 2012 Membrane Technology Conference.
Keisuke	Ikehata	Assistant Professor	Texas State University	THU09-02	Dr. Ikehata is an Assistant Professor of Civil Engineering in the Ingram School of Engineering, Texas State University, San Marcos, TX. He joined Texas State as one of four founding members of the new Civil Engineering Program in July 2019. Dr. Ikehata received his Ph.D. in Civil and Environmental Engineering from the University of Alberta in 2003. He has 8 years of industry experience and 10 years of academic experience in Canada and the United States. His current research activities center around the effective use of alternative water resources including brackish groundwater, brackish surface water, reclaimed water, and stormwater for potable applications using advanced treatment and monitoring technologies.

Steven	Friedman	Senior Project Manager	HDR Inc.	THU09-03	Steve Friedman is a Vice President for HDR Engineering where he manages their Southern California Drinking Water department. He has worked in the water and wastewater consulting industry since his graduation in 1994 from UC Berkeley where he received his Bachelors and Masters of Science in Civil Engineering. He received his Professional Engineering license in 1996, a Project Management Professional certificate in 2005, and is a board-certified environmental engineer.
Mark	Gehring		Fibracast	THU11-01	
Amit	Kaldate	Domain Leader	Suez	THU11-02	Amit Kaldate is Domain Leader at Suez with 20 years of experience in design, commercialization and growth of technologies. He received his Ph.D. from University of Illinois, Urbana-Champaign. As a professional member, he has been an active participant in committees (WEFTEC Program Committee, WEF Innovations in Process Engineering Steering Committee, WRF Energy Advisory Committee) and task forces (e.g. Utility of the Future, WRF LIFT).
Ali	Zarei Baygi		CDM Smith	THU11-03	Dr. Zarei-Baygi is an environmental engineer with extensive expertise in membrane-based treatment, molecular biology, and wastewater-based epidemiology. He received his bachelor and master's degrees in environmental engineering from Sharif University of Technology, Tehran, Iran. He then got his Ph.D. degree in environmental engineering from University of Southern California (USC). Before Joining CDM Smith, Dr. Zarei-Baygi was a research associate at USC working on wastewater surveillance for SARS-CoV-2 in Los Angeles County. Dr. Zarei-Baygi has 10 peer-reviewed Journal articles and over 120 citations.
Yiming	Liu		UCLA Civil Engineering	THU12-01	
Arvin	Shadravan	Student	Texas A&M University	THU12-02	Arvin Shadravan earned an MS and a BS in chemical engineering. Currently, He is a Ph.D. student at Texas A&M University. His expertise is as follows: Renewable Energy, Water Treatment, Desalination, Nanomaterials, Membrane Technology, Thin Film Nanocomposite, Polymers, Material Science, Separation Technology, Reverse Osmosis, Forward Osmosis, Pressure Retarded Osmosis and Power Generation.
Jingbo	Wang		UCLA	THU12-03	

Ricardo	Bernal	SVP Strategy	Heartland Water Technology, Inc.	TUE01-01	Ricardo Bernal SVP Strategy – GM Biosolids Heartland Water Technology USA Water professional | Business Development | Strategy | Bringing technologies to market Professional Experience: Business development director with 25+ years of experience in the water industry; He has held different roles from Engineering, Product Management, Business Development to Business Strategy. He has worked as Business Developer, and Project Developer in the USA and abroad; Currently, he is responsible for business strategy and Biosolids Market for Heartland Water. He had responsibilities for project financing on BOO/BOOT structures and O&M contracts in multiple regions. Previously, he was responsible for business development for Industrial Water for Jacobs O&M group worldwide. He lived abroad in Europe, the Middle East and Latin America. Mr. Bernal previous role as Global Industrial Director (mining, power generation, O&G, F&B and refining) for Abengoa Water. During his tenure with GE Water, he held several roles in business development, project management and product line manager. Before that, he held roles with Ionics in both business development and technical roles as Project Development Manager working primarily in membrane-based technologies, process water, wastewater, and desalination.
Stanton	Smith		Crosstek Membrane Technology	TUE01-02	Stanton focused his 20-year working career in the water and wastewater markets, working on technology innovation and commercialization, and is a specialist in membrane filtration technologies. Currently his sleeves are rolled up on launching Crosstek in China and USA. Before joining Crosstek, Stanton spent a number of years on the launch of Nanostone Water ceramic membranes into drinking water installations across the USA, and industrial installations across China. Dr. Smith completed a doctorate in engineering, in membrane mass transfer analysis and holds a Bachelor of Chemical Engineering. Dr. Smith previously spent a number of years at Veolia Water, where he drove commercialization of a newly acquired membrane technology portfolio. Prior to that Dr. Smith spent a number years with Pall Corporation, one of the largest filtration companies globally. Stanton lives in Boston with his wife and their two children.

Fredrick	Gerringer	Senior Associate	Hazen and Sawyer	TUE01-03	Dr. Gerringer is Hazen and Sawyer's West Region Water Reuse Practice Leader and has more than 20 years of experience working in the public and private sectors on water reuse, drinking water, and wastewater projects. He has led applied research projects in areas such as direct potable reuse and soil aquifer treatment that have benefited the potable reuse industry. In recent years, Dr. Gerringer has applied his expertise to complex water reuse projects for a variety of municipal clients, primarily in the State of California. Dr. Gerringer was a member of the AWWA CA-NV Section committee that developed a voluntary certification program for advanced water treatment operators in California and Nevada.
Timothy	English		Carollo Engineers	TUE02-01	Tim has been in the membrane treatment industry for over 10 years. His first job after finishing his masters from the University of Florida was to operate a brackish water RO pilot for several months. Since then, he has piloted, designed, and commissioned over a dozen membrane facilities throughout the US. He is currently on the board of the Northwest Membrane Operator Association. Previously, he served on committees for FSAWWA, FWEA, and was active with the Southeast Desalting Association.
Dustin	Whynman		Carollo Engineers	TUE02-02	Dustin has been with Carollo Engineers for 9 years. His work primarily focuses on advanced treatment with membranes for drinking water and water reuse. Dustin currently lives in Idaho and enjoys cycling and mountain biking. He earned is both his undergraduate and graduate degrees in Civil and environmental engineering from Clarkson University in Potsdam, NY.
John	Civardi	Vice President		TUE02-03	John Civardi is vice-president and global water treatment practice leader at Mott MacDonald, He is also vice-chair of AWWA's Membrane Systems Subcommittee. Civardi began working on membrane projects in 1996 and has worked on multiple membrane projects in New York, New Jersey, Maryland, and Delaware. He has worked at Mott MacDonald for more than 20 years.
Greg	Wetterau	Vice President	CDM Smith	TUE03-01	Mr. Greg Wetterau is a Vice President with CDM Smith in Rancho Cucamonga, California, serving as their Membrane Technology Leader and supporting the planning and design of membrane filtration, potable reuse, and desalination projects around the globe. Mr. Wetterau serves as a Director for AMTA and IDA and is a past Chair of the AWWA Water Desalting Committee. Mr. Wetterau holds a Masters and a Bachelor of Science from the University of Illinois-Urbana, and a Bachelor of Arts from Wheaton College.

Val	Frenkel		Greeley and Hansen	TUE03-02	Dr. Val S. Frenkel is well known in the water industry with his expertise in water and wastewater treatment, water reuse, and membrane technologies, including desalination. Equally instrumental was Dr. Frenkel's role in the development of low pressure membrane technologies and applications which are used and taught at the university level. Developing, leading and delivering near 300 projects globally Dr. Frenkel's works go far beyond his job scope as they are published extensively both in the US and abroad, authoring several patents in the process. He has more than 100 publications including 21 books and national manual of practices by WEF, AWWA and ASCE touching on the areas of water, wastewater treatment, desalination and salinity management. For his works, Dr. Frenkel has received numerous accolades from the likes of the International Desalination Association and American Academy of Environmental Engineering. At the same time, Dr. Frenkel is also a Diplomate, Water Resources Engineer (D.WRE) of the American Academy of Water Resources Engineers (AAWRE), which is part of the Academy of the Civil Engineering Certification, Inc. (CEC). Dr. Frenkel elected Fellow IWA, Fellow WEF and Fellow ASCE/EWRI.
Ufuk	Erdal	Water Reuse Director	Arcadis	TUE03-03	Dr Erdal is serving as the Water Reuse National Practice Director at ARCADIS with 26 years of diverse experience in planning, design, procurement, permitting and commissioning of advanced treatment facilities primarily used in water reuse applications. He got his master and PhD degrees from the Ohio State University and Virginia Tech respectively. He is the co-author to four WEF Manuals and has more than 75 conference proceedings and peer review articles. He served as the director on the Water Research Foundation Board between 2017 and 2020 to develop sustainable water management solutions thru advanced research.
Arun	Subramani	Senior Technologist	Jacobs	TUE04-01	15 years of professional industry experience in advanced water treatment and membrane-based desalination. "Market-pull" and "Technology-push" innovation for the treatment of traditional and non-traditional water sources – surface water, brackish groundwater, seawater, oil & gas produced water for beneficial reuse/zero liquid discharge (ZLD)/near–ZLD.

Frans	Knops	Product Manager	Pentair	TUE04-02	Frans Knops studied Mechanical Engineering at Eindhoven University and did a two year Post Graduate Course in Membrane Technology at Twente University. He has been working for different market leading companies in membrane technology and was responsible for preliminary design, sales and start up of engineered systems around the world. Since 2005 he is Product Manager responsible for the product line of hollow fiber membranes within Pentair X-Flow. Frans Knops has 25 years experience in membrane technology, with numerous membrane related publications and three patents on his name.
Derek	Senior	Product Manager	SUEZ	TUE04-03	Derek Senior is a product manager of immersed ultrafiltration membranes for water applications with Suez Water Technologies and Solutions. He cut his teeth in the water industry in 1998, starting up water and wastewater treatment systems for customers around the world. He has held various positions since, all focused on ultrafiltration membrane based technology. Derek and his family live in Toronto Canada. He considers coaching and playing hockey and soccer, plus birding among his passions.
Srinivas	Veerapaneni	Global Practice & Tech Leader, Desal & Reuse	Black & Veatch	TUE05-01	
Kamakshi	Sharma		Aquatech	TUE05-02	
Prasad	Kaniampal	Applications Manager	Aquatech	TUE05-02	
Giancarlo	Barassi	Sales and Business Development - Americas & Europe	FEDCO	TUE05-03	After finishing his PhD in Chemistry in New Zealand, Dr. Barassi returned to his home country Chile where he sold projects and equipment for Culligan, Voltea and FEDCO in Chile and Peru. He has hands-on experience in design, commissioning and troubleshooting of RO plants for Industrial, Agriculture and Haemodialysis applications. Dr. Barassi joined the pump and ERDs manufacturer, FEDCO, in September 2017 where he has helped to promote high recovery in BWRO and SWRO in the western hemisphere. He is also actively involved in the International Desalination Association as the Young Leaders Program co-chair promoting the accelerated career growth of the new generation of leaders in the Desalination industry globally. Dr. Barassi is currently enrolled in the Executive MBA program at Rollins College in Florida.

Jim	Lozier	Technology Fellow	Jacobs	TUE06-01	Jim Lozier currently serves as the Global Practice Leader for Desalination and Membrane Treatment for Jacobs. With 40 years in the water industry as a civil engineer, Jim is a globally-recognized subject matter expert in the study, design, construction and operation of a variety of membrane and desalination technologies for the treatment of potable water, municipal and industrial wastewaters and for potable reuse. He has conducted research on the use of low and high pressure membranes for the Water Research Foundation and the Water Environment and Research Foundation and served as a senior process engineer on membrane-based drinking water and potable reuse facilities throughout the world.
Brennen	Graff	Plant Operator	Park City Municipal Corporation	TUE06-02	Brennen has been a plant operator for the last 10 years. He has received his Bachelor's Degree in Biology and is very excited to also have his Master's Degree in Public Service just completed. He has been a past board member of NWMOA.(Northwest Membrane Operators Association) Brennen has a wide variety of treatment experience and background in conventional water treatment facilities as well as micro/ultrafitration and reverse osmosis/nanofiltration. He currently resides in Heber City, Utah with his wife Brenda, and two children. Brennen enjoys renovation and construction projects as well as camping.
Jonathan	Brant	Assistant Professor	University of Wyoming - Dept of Civil Engineering	TUE06-03	Jonathan Brant, P.E. is a Professor in the Department of Civil and Architectural Engineering at the University of Wyoming. His research focuses on the development of physicochemical separation processes for treatment of, and resource recovery from, municipal and industrial waters. He is also the Director of the Center of Excellence in Produced Water Management. He has worked in the membrane technology field for over 20-yrs. His research is currently focused on reducing the specific energy consumption, while increasing ion selectivity, for desalination systems using nanocomposite membranes and magnetic fields.

Kanwal	Oberoi	Director of Wter Distribution	Charleston Water System	TUE07-01	Kanwal Oberoi is the Director of the Water Distribution Department, Charleston Water System, in Charleston, South Carolina. He has Masters Degree in Environmental Engineering form University of Alberta and is a registered professional Engineer. He has more than 25 years of experience in the operation and maintenance of state-of-the-art water treatment plants and water distribution systems in the United States and Canada. He has chaired the AWWA Water Treatment Plant and Distribution Committee, Distribution and Plants Operation Division for six years and currently chair of G200 Distribution Operations and Management Standards committee, Trustee for the AWWA Management Division, Accreditation Policy Committee and as well as being a member of the AWWA Standards Council. He is also a Project Advisory Committee member on various AWWARF projects. He is credited with developing unidirectional flushing techniques and he has led his utility to become first water utility in the nation to become ISO 14001 certified.
Kerry	Howe	Professor	Univ. of New Mexico Civil Engrg. Dept.	TUE07-02	Dr. Kerry J. Howe, P.E., BCEE is a Distinguished Professor in environmental engineering at the University of New Mexico and the Director of UNM's Center for Water and the Environment. He has over 30 years of experience in the water treatment industry including both consulting and academic experience. He is an author of the textbooks Principles of Water Treatment and MWH's Water Treatment: Principles and Design, the two most prominent textbooks in the field of water treatment.
Andrea	Netcher	Water Team Leader	Plummer Associates	TUE07-03	
David	Holland	Sr. Application Engineer	Aqua-Aerobic Systems	TUE08-01	Dave has 42 years of experience with water and wastewater treatment, including low- and high-pressure membranes. He's on the board for the AMTA and is a member of AWWA and the AIChE. Dave has an associate degree in technical writing and is currently completing a bachelor's degree in chemical engineering.

David	Ladner	Assistant Professor	Clemson University	TUE08-02	David Ladner joined the Department of Environmental Engineering and Earth Sciences at Clemson University in 2010 after completing a PhD in Environmental Engineering at the University of Illinois at Urbana-Champaign and a postdoc at Arizona State University. The Ladner research group studies physical-chemical processes for applications such as the removal of pesticides from drinking water, the removal of salt from seawater, and the treatment of high-strength industrial wastewater. We specialize in automated and remotely-deployable membrane filtration systems and computational fluid dynamics (CFD) modeling for process design. The ultimate goal is to increase sustainability and resiliency by lowering energy and life-cycle costs in drinking water and wastewater infrastructure.
Jess	Wei			TUE08-03	
Steven	Coker	Municipal Technical Leader	DuPont Water Solutions	TUE09-01	Steven D. Coker - Municipal Technical Leader with DuPont Water Solutions. Mr. Coker has a BS of Chemical Engineering from the University of Texas and is a member of various water treatment associations. Mr. Coker has been with the Water Solutions business for over 40 years and has worked in various Research and Development and Technical Service functions. He is the author of several technical papers on the application of ion exchange and membrane technology for water treatment. He is currently responsible for the design, commissioning and technical support of reverse osmosis membrane plants in North America.
Wayne	Bates	Tech Dept. Staff Engineer	Hydranautics	TUE09-01	Wayne Bates has 42 years of experience in engineering, troubleshooting, design, project management, sales and marketing of membrane systems for brackish, sea and waste water applications in the industrial and municipal water markets. He has authored 31 papers on RO/NF and MF/UF membrane technology, has conducted training seminars around the world, and is a member of AMTA, AWWA, IDA, and the IWC Advisory Council.
Raul	Alfaro		Jacobs	TUE09-02	Raul is a water treatment process engineer and project manager. He has experience supporting municipal water utilities and private commercial clients across the State of Florida and in the Caribbean during all stages of the design process from master planning to plant commissioning including performance testing, facility evaluation, process optimization, expansion evaluation, pilot testing, plant commissioning, and capital improvement planning. Raul is a licensed Professional Engineer in the State of Florida.

Mo	Malki	CEO/Technical Director	American Water Chemicals	TUE09-03	Mo Malki is the President and Technical Director for American Water Chemicals; He holds a Bachelor's Degree in Metallurgy and Materials Engineering from the University of Toronto. He has been involved in the membrane industry since 1999, developing scale and corrosion inhibitors and membrane cleaning chemicals, troubleshooting membrane systems, and interpreting membrane autopsy data.
Paula	Campesino	Graduate Research Assistant	University of Central Florida	TUE10-01	Paula Campesino is a current graduate research assistant at the University of Central Florida under the guidance of Dr. Steven Duranceau, as part of his Water Quality Engineering Research Group. In August 2020, she completed her master's degree in Environmental Engineering at UCF. Her master's work focused on disinfection by-product formation reduction using the UV irradiation-chlorine dioxide advanced oxidation process. She is now a doctoral candidate and is working on a Lead and Copper Rule study funded by the City of Sarasota.
Sunny	Wang		City of Santa Monica	TUE10-02	Mr. Sunny Wang is currently the Water Resources Manager at the City of Santa Monica, where he oversees the water and wastewater utility for the City. Sunny holds a B.S. and M.S. in Environmental Engineering from the University of California, Riverside. He has over 20 years of experience in design and implementation of conventional and advanced water treatment technologies over a wide range of applications including desalination and potable reuse. He is currently leading the City's efforts to diversify its water supply portfolio through implementing innovative projects for potable reuse and concentrate recovery as well as restoring impaired local groundwater supplies through advanced treatment technologies.
Stanton	Smith		Crosstek Membrane Technology	TUE11-01	Stanton focused his 20-year working career in the water and wastewater markets, working on technology innovation and commercialization, and is a specialist in membrane filtration technologies. Currently his sleeves are rolled up on launching Crosstek in China and USA. Before joining Crosstek, Stanton spent a number of years on the launch of Nanostone Water ceramic membranes into drinking water installations across the USA, and industrial installations across China. Dr. Smith completed a doctorate in engineering, in membrane mass transfer analysis and holds a Bachelor of Chemical Engineering. Dr. Smith previously spent a number of years at Veolia Water, where he drove commercialization of a newly acquired membrane technology portfolio. Prior to that Dr. Smith spent a number years with Pall Corporation, one of the largest filtration companies globally. Stanton lives in Boston with his wife and their two children.

Susan	Guibert		Toray Membrane USA, Inc.	TUE11-02	Susan Guibert, P.Eng. is the UF MBR Technical Support Leader for TORAY Membranes USA. She started her career at ZENON Environmental in 1996 after completing her Bachelor of Engineering & Society in Chemical Engineering from McMaster University in Hamilton, Ontario, Canada. Susan left ZENON / GE in 2009 and joined TORAY she can be reached at sue.guibert.h4@mail.toray.
James	DeCarolis			TUE11-03	James is a process engineer with the Water Treatment Technology group of Black & Veatch. James has been involved with the implementation of bench, pilot, feasibility, and design projects related to the application of membrane-based technologies and other advanced treatment technologies for a wide array of drinking water and reuse applications. James is currently serving as process engineer associated with the 12.5 MGD advanced water purification facility component of the Cave Creek Water Reclamation Plant Modification project.
Lindsay	Housley		Westech Engineering, Inc.	TUE12-01	
Mickal	Witwer		Jacobs	TUE12-03	
Alex	Waite	Process Engineer		WED01-01	Alex Waite is a process engineer with the City of Santa Monica where he oversees design, construction, and optimization of the City's potable water and potable reuse systems. He holds a BS and MS in civil engineering from the University of Southern California, and he is a Professional Engineer registered in California.

Lance	Littrell	Client Services Manager	Kimley-Horn & Associates	WED01-02	Lance Littrell has earned a bachelor's degree in Mechanical Engineering from Old Dominion University and a master's degree in Business Administration from the University of Central Florida. Lance currently holds a professional engineering license in multiple states along with additional certifications in PLC programming, project management and multiple operator training courses. Lance Littrell brings extensive experience in the water treatment field in both conventional and high-end water treatment. He has served multiple roles both in engineering and construction of water treatment plants in Florida, across the nation and abroad. This experience includes engineered planning, design, permitting, and construction, as well as startup and troubleshooting of treatment facilities. With his hands on experience, Lance brings an engineering approach rooted in practical application to his projects and his volunteer duties within AWWA, SEDA, and AMTA.
Jeffery	Beaty		Jacobs	WED01-03	
Joris	de Grooth	R&D Director	NX Filtration	WED02-01	
Sue	Mecham		NALA Systems	WED02-02	Sue Mecham holds a Ph.D. in polymer chemistry from Virginia Tech and is the CEO and co-founder of the women led company, NALA Systems. Sue brings over twenty years of experience building and leading teams in both industry and academia and has a broad background in materials and product development in automotive sealing products, membranes for gas and liquid separations, medical devices, and additive manufacturing. NALA Systems is developing unique chemically resistant reverse osmosis membranes to reduce the cost and complexity of water purification.
Walter	Kosar	Sr. Research Scientist	Arkema Inc.	WED02-03	
Hannah	Ray		Southern Nevada Water Authority	WED03-01	Hannah Ray received her bachelor's in environmental engineering from the University of Florida and her master's and PhD at Arizona State University. Her undergrad and graduate work focused on nutrient recovery from wastewater by membrane processes. Her postdoctoral research at Southern Nevada Water Authority focuses on membrane treatment processes for potable water reuse applications.

Han	Gu	Scientist/Process Specialist	Orange County Water District	WED03-02	Han Gu Ph.D. is a Scientist/Process Specialist in the Research and Development Department at the Orange County Water District (OCWD) in Fountain Valley, California. Dr. Gu is responsible for pilot scale testing to evaluate and optimize the advanced treatment process and emerging technologies for potable reuse. Pilot activities are carried out at the Engineering Research Center (ERC) pilot test facility at OCWD or within the main treatment facility (Advanced Water Purification Facility). Dr. Gu has over nine years of research experience in fouling and scaling mitigation in RO desalination and autonomous pilot-scale RO operation.
Jason	Assouline		Carollo Engineers	WED03-03	Jason Assouline is a project manager and associate vice president at Carollo Engineers in the Denver area. He is part of Carollo's water reuse technical practice and the Carollo Research Group. Jason's experience spans water reuse and drinking water projects and over the past 17 years his project work has included Water Research Foundation projects, pilot plant design and operation, full scale treatment plant design and operation, and construction management. Jason earned bachelor's and master's degrees in Civil and Environmental Engineering from the University of Iowa.
Steven	Urich	Director of Utilities	City of Plantation	WED04	
Roy	Daly		LG Water Solutions	WED04	Roy has been involved in membrane based treatment processes since 1995 in a variety of roles including design, engineering, construction, commissioning, operations, sales and marketing
Eric	Owens		Water Replenishment District of S. Calif.	WED04	Eric Owens holds a B.S. degree in Chemical Engineering from the University of California at Berkeley, and is a registered professional engineer in California. He is currently the Manager of Engineering & Operations at the Water Replenishment District of Southern California (WRD). Prior to joining WRD, Eric worked for 5 years for West Basin Municipal Water District and fourteen years with Separation Processes, Inc, a consulting-engineering firm focused on membrane technologies and other advanced treatment processes. Eric currently serves on the Board of Directors for the American Membrane Technology Association (AMTA), and has previously served as President for the Southwest Membrane Operator Association (SWMOA) Board of Directors. His more than twenty years of experience includes providing design, startup, and operational support services for a variety of municipal agencies using membrane technologies for water and wastewater treatment.
Russell	Swerdfeger	Something Very Important	Dupont	WED04	

Steven	Urich	Director of Utilities	City of Plantation	WED04-01	
Roy	Daly		LG Water Solutions	WED04-02	Roy has been involved in membrane based treatment processes since 1995 in a variety of roles including design, engineering, construction, commissioning, operations, sales and marketing
Eric	Owens		Water Replenishment District of S. Calif.	WED04-03	Eric Owens holds a B.S. degree in Chemical Engineering from the University of California at Berkeley, and is a registered professional engineer in California. He is currently the Manager of Engineering & Operations at the Water Replenishment District of Southern California (WRD). Prior to joining WRD, Eric worked for 5 years for West Basin Municipal Water District and fourteen years with Separation Processes, Inc, a consulting-engineering firm focused on membrane technologies and other advanced treatment processes. Eric currently serves on the Board of Directors for the American Membrane Technology Association (AMTA), and has previously served as President for the Southwest Membrane Operator Association (SWMOA) Board of Directors. His more than twenty years of experience includes providing design, startup, and operational support services for a variety of municipal agencies using membrane technologies for water and wastewater treatment.
Russell	Swerdfeger	Something Very Important	Dupont	WED04-05	
Mike	Mickley		Mickley & Associates LLC	WED05-01	Michael Mickley, P.E., Ph.D., is President of Mickley & Associates LLC. Dr. Mickley has been conducting research and working with clients in the field of desalination treatment since 1966. Since 1990 most of Mickley & Associates' efforts have involved addressing challenges of concentrate/brine treatment and management. Work projects have been split between consulting with engineering companies and utilities and conducting research projects funded by Bureau of Reclamation, AwwaRF, Office of Naval Research, WRRF, DOE, USDA, and WRF. Dr. Mickley is an internationally recognized expert in brine management, reviews papers for various Journals, and is an advisor to BlueTech Research, an international water market intelligence company.
Brian	Butters	President	Purifics	WED05-02	

Jishan	Wu		UCLA Civil Engineering	WED05-03	Jishan Wu is a Ph.D. student in UCLA's Department of Civil & Environmental Engineering, under the supervision of Prof. Eric M.V. Hoek. His research revolves around membrane and other advanced technologies for water applications. He is the lead author of the book Sustainable Desalination and Water Reuse. His Ph.D. thesis focuses on developing novel ultra-high pressure reverse osmosis (UHPRO) with the objective of achieving minimum/zero liquid discharge more cost-effective and sustainable.
Andrew	Safulko		Brown and Caldwell	WED06-01	
Eugene	Rozenbaoum		LG Chem	WED06-02	
Ronit	Erlitzki	Director of Business Development	AdEdge Water Technologies, LLC	WED06-03	Ronit Erlitzki is Director of Business Development and Innovation with AdEdge Water Technologies, LLC. Ronit's career is based on strong scientific foundation and implementation of strategic and critical thinking. With more than 20 years of experience in biochemistry research and business development Ronit's main interest is water and wastewater technology, and her goal is to accelerate the implementation of innovative clean technologies, focusing on improvement of sustainable solutions to environmental challenges. Ronit is a savvy water professional and has been successfully involved in the commercialization of several technologies in the field of water quality analysis, biological water treatment and high recovery RO by utilizing a holistic approach for the introduction of innovation to the water treatment community. Ronit holds a BSc. in Biology from Tel Aviv University, and MSc and DSc degrees in Medical Sciences from Technion-Machon Technologi Le'Israel. She is an active member of the ISBT Water Quality Committee, and the AWWA Manganese and Reuse Subcommittees.
Christopher	Morrow		Dupont Water Solutions	WED07-01	Chris Morrow is the Technical Sales Manager for DuPont Water Solutions' MEMCOR UF and MBR products in the Western Territory. Chris earned his Ph.D. at the University of Southern California, where his work on membrane system integration and membrane fouling was recognized with fellowships from the National Science Foundation, the American Membrane Technology Association, and the U.S. Bureau of Reclamation. His previous role in Memcor was the the senior process engineer for MEMCOR MBRs. He has over 10 years of experience in water and wastewater treatment and reuse, and his current focus is on advanced treatment systems using membrane bioreactors for Indirect and Direct Potable Reuse (IPR/DPR).

Larry	Morris	Senior R&D Scientist	Kubota Membrane USA, Corporation	WED07-02	I am a senior R&D scientist for Kubota Membrane USA Corporation. My focus areas within the MBR field are operations improvement, systems development and reuse applications. Previously I was a postdoctoral research associate at the Center of Photochemical Sciences at Bowling Green State University in Bowling Green, OH. I hold a PhD in physical inorganic chemistry from Michigan State University and a BS in chemistry from Lipscomb University in Nashville, TN.
Mike	Dummer	Project Manager	SPI	WED07-03	
Ali	Sharbat	Associate Professor	Cal Poly Pomona	WED08-01	
Richard	Stover		Gradiant Corporation	WED08-02	Dr. Richard Stover serves as Vice President of Technology for Gradiant's membrane business, focused on high recovery desalination and minimum liquid discharge solutions for industrial wastewater, seawater and brine treatment applications. He is recognized globally for expertise in reverse osmosis systems and components. His PhD is in Chemical Engineering.
Katie	Walker		HDR	WED09-01	Katie Walker is HDR's drinking water lead for the South Atlantic Area. Her experience includes reviewing water quality data for trends and constituents of concern, including emerging contaminants, and identifying holistic solutions for treatment challenges. Katie has served as design lead on a wide variety of water projects including facility design, pipeline and pump station design, construction management, and water system planning.
David	Ladner	Assistant Professor	Clemson University	WED09-02	David Ladner joined the Department of Environmental Engineering and Earth Sciences at Clemson University in 2010 after completing a PhD in Environmental Engineering at the University of Illinois at Urbana-Champaign and a postdoc at Arizona State University. The Ladner research group studies physical-chemical processes for applications such as the removal of pesticides from drinking water, the removal of salt from seawater, and the treatment of high-strength industrial wastewater. We specialize in automated and remotely-deployable membrane filtration systems and computational fluid dynamics (CFD) modeling for process design. The ultimate goal is to increase sustainability and resiliency by lowering energy and life-cycle costs in drinking water and wastewater infrastructure.
Viraj	deSilva	Senior Treatment Process Leader	Freese & Nichols	WED09-03	

Gregory	Sato		PWT Chemicals	WED10-01	Greg received a BS in Nano Engineering from UC San Diego in 2016. He joined PWT Chemicals in 2019 and has a variety of responsibilities including membrane forensics, antiscalant selection and optimization, and membrane cleaning.
Xuan	Liu			WED10-02	
Rachel	Dubois			WED11-01	Rachel DuBois is a Project Engineer with Jacobs in the Northern Virginia/Washington DC area where she works in the water and wastewater market on process design projects for water treatment plants and provides engineering services during construction. She graduated from The Ohio State University with a B.S. in Civil Engineering.
Simon	Breese	Technical Director, Water Treatment	AECOM	WED11-02	
Rushabh	Shah			WED11-03	Rushabh M. Shah is currently a Ph.D. student in Chemical Engineering at the University of Massachusetts Amherst. He holds B.S. degree in Chemical Engineering from the Institute of Chemical Technology. His ongoing research focuses on fabricating bioinspired liquid-infused membranes, which aims to reduce the adhesion of particulates and bacteria on membranes. He also enjoys cooking, playing Table Tennis, Cricket and Soccer and is a Manchester United supporter.
Christian	Sanders		CDM Smith	WED12-01	
Lee	Portillo	Senior Process Technologist	Black & Veatch	WED12-02	Lee Portillo is a Process Engineer and Project Manager with Black & Veatch. His professional interests and focus lies at the intersection of advanced treatment projects and the economic evaluation of their commercial viability.
Tyler	Abercrombie	Water Process Engineer	GHD Inc.	WED12-03	Tyler is a Water Process Engineer at GHD, based in Irvine, California. He received his Masters degree in Engineering from UC Irvine. He has 7 years of research and work experience across a broad range of water treatment processes with a particular interest in advanced water treatment by reverse osmosis for water reuse and seawater desalination.

Qigang	Chang	Project Engineer	Advanced Engineering and Environmental Services	WED14-01	Dr. Chang is Advanced Treatment Specialist with AE2S. He has over 15 years of experience in water treatment facility design, operation optimizations, and wastewater effluent reuse. He is a well-recognized membrane technology and advanced technology expert and has provided pilot study, engineering design, and operation optimization on water treatment facilities and wastewater effluent reuse. In the last decade, he has been involved in a number of water treatment plants (WTPs) designs and improvements, including Fargo 15 MGD membrane WTP, Grand Forks 20 MGD Regional WTP, St. Cloud WTF Advanced Treatment Technology upgrade (Ozone and UV), Fargo LSWTP Crypto Compliance Improvements (UV), and Grand Forks WWTP effluent reuse. Dr. Chang has published more than 30 papers focusing on water quality and plant optimization.
John	Civardi	Vice President		WED14-02	John Civardi is vice-president and global water treatment practice leader at Mott MacDonald, He is also vice-chair of AWWA's Membrane Systems Subcommittee. Civardi began working on membrane projects in 1996 and has worked on multiple membrane projects in New York, New Jersey, Maryland, and Delaware. He has worked at Mott MacDonald for more than 20 years.
Brian	Butters	President	Purifics	WED14-03	
Stanton	Smith		Crosstek Membrane Technology	PST01-03	Stanton focused his 20-year working career in the water and wastewater markets, working on technology innovation and commercialization, and is a specialist in membrane filtration technologies. Currently his sleeves are rolled up on launching Crosstek in China and USA. Before joining Crosstek, Stanton spent a number of years on the launch of Nanostone Water ceramic membranes into drinking water installations across the USA, and industrial installations across China. Dr. Smith completed a doctorate in engineering, in membrane mass transfer analysis and holds a Bachelor of Chemical Engineering. Dr. Smith previously spent a number of years at Veolia Water, where he drove commercialization of a newly acquired membrane technology portfolio. Prior to that Dr. Smith spent a number years with Pall Corporation, one of the largest filtration companies globally. Stanton lives in Boston with his wife and their two children.
Tyler	Malkoske	PhD Student	University of Toronto	PST01-04	PhD Candidate with the Drinking Water Research Group, University of Toronto
Yongtao	Li	Technical Director	Eurofins Eaton Analytical, LLC	PST01-07	

Gil	Hurwitz		Black & Veatch	PST01-08	Passionate about the key role that water plays in our lives, Dr. Gil Hurwitz is part of Black & Veatch's Water Technology Group where he contributes to the front-end design and conceptualization of large-scale drinking water treatment systems, especially with respect to membrane filtration, emerging organic contaminant removal, and water reuse. Gil's recent efforts have been on finding new methods for cost-effective brine management technologies and water resource development through probabilistic modeling.
Steven	Friedman	Senior Project Manager	HDR Inc.	PST01-10	Steve Friedman is a Vice President for HDR Engineering where he manages their Southern California Drinking Water department. He has worked in the water and wastewater consulting industry since his graduation in 1994 from UC Berkeley where he received his Bachelors and Masters of Science in Civil Engineering. He received his Professional Engineering license in 1996, a Project Management Professional certificate in 2005, and is a board-certified environmental engineer.
Minhao	Xiao		UCLA Civil Engineering	PST01-11	
Qigang	Chang	Project Engineer	Advanced Engineering and Environmental Services	PST01-12	Dr. Chang is Advanced Treatment Specialist with AE2S. He has over 15 years of experience in water treatment facility design, operation optimizations, and wastewater effluent reuse. He is a well-recognized membrane technology and advanced technology expert and has provided pilot study, engineering design, and operation optimization on water treatment facilities and wastewater effluent reuse. In the last decade, he has been involved in a number of water treatment plants (WTPs) designs and improvements, including Fargo 15 MGD membrane WTP, Grand Forks 20 MGD Regional WTP, St. Cloud WTF Advanced Treatment Technology upgrade (Ozone and UV), Fargo LSWTP Crypto Compliance Improvements (UV), and Grand Forks WWTP effluent reuse. Dr. Chang has published more than 30 papers focusing on water quality and plant optimization.
Ethan	Demeter	R&D Manager	Magna Imperio Systems	PST02-01	
Amira	Abdelrasoul		University of Saskatchewan	PST02-02	

Derek	Senior	Product Manager	SUEZ	PST02-03	Derek Senior is a product manager of immersed ultrafiltration membranes for water applications with Suez Water Technologies and Solutions. He cut his teeth in the water industry in 1998, starting up water and wastewater treatment systems for customers around the world. He has held various positions since, all focused on ultrafiltration membrane based technology. Derek and his family live in Toronto Canada. He considers coaching and playing hockey and soccer, plus birding among his passions.
Stephen	Cavanaugh	Graduate Researcher		PST02-05	Stephen Cavanaugh is a PhD candidate in the Civil and Environmental Engineering department at the University of Utah. His research includes estimating mass transfer coefficients using high performance liquid chromatography and modeling membrane filtration systems for removing munitions compounds as well as ionic liquids. Stephen has plans to remain in academia researching wastewater treatment and wastewater reuse when he graduates.
Lucas	Crane		Arizona State University	PST02-06	Lucas Crane is an Environmental Engineering, M.S. candidate at Arizona State University. He is a Graduate Research Assistant under Dr. Treavor Boyer, currently studying nutrient recovery from human urine using membrane treatment processes. He is interested in conducting research on solving physicochemical Environmental Engineering problems, including water and wastewater treatment, collection and use of urine in sustainable applications, water age within existing water infrastructure, and sustainable reuse of waste products for novel processes.
Jacob	Palmer	Graduate Student		PST02-08	
Ufuk	Erdal	Water Reuse Director	Arcadis	PST02-09	Dr Erdal is serving as the Water Reuse National Practice Director at ARCADIS with 26 years of diverse experience in planning, design, procurement, permitting and commissioning of advanced treatment facilities primarily used in water reuse applications. He got his master and PhD degrees from the Ohio State University and Virginia Tech respectively. He is the co-author to four WEF Manuals and has more than 75 conference proceedings and peer review articles. He served as the director on the Water Research Foundation Board between 2017 and 2020 to develop sustainable water management solutions thru advanced research.
Viraj	deSilva	Senior Treatment Process Leader	Freese & Nichols	PST02-10	