

Wed. May 1	-	Auditorium	Sunbrook A	Sunbrook B	Sunbrook C	Entrada A	Entrada B	Entrada C	
8:00 - 12:00			Operators Challenge (in Exhibit Hall)				Water Quality Board Meeting (8 a.m. to 1 p.m.)		
Wed. May 1	Tech Session A	Auditorium	Sunbrook A	Sunbrook C	Sunbrook B	Entrada A	Entrada B	Entrada C	
		Topic: Utah DWQ Status of Nutrient Regs	Topic: Energy	Topic: Nutrient Removal	Topic: Facility Compliance/Security Strategies	Topic: Collection System	Topic: Innovative Technologies/Equipment	-	
		Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	-	
1:30 - 2:00	A1	Walt Baker, DWQ/Leland Myers, CDS	Can Solar Power Be Your Energy Solution? John Bettancourt	Converting Oxidation Ditches to a BNR System - A Modeling Approach Darren Lowe	Implementing Stringent Process Safety Standards In The Anaerobic Digester Gas System At Las Vegas Nevada Steven Emerson	Solving Customer Service Puzzle Ryan Hatch/ULGT	-	-	
Break		10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	
2:10 - 2:40	A2	Walt Baker, DWQ/Leland Myers, CDS	-	Why some plants do excellent EBPR and others don't-results from full scale treatment plants Amir Motlagh	Security Issues and Best Practices for Water/Wastewater Facilities Jeff Hayes	The Evolution of the Polymer Manhole System Michael Bussio	My Diffuser Goes Up to Eleven Steve Myers	-	
2:40 - 3:30		Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	
3:30 - 4:00	A3	-	Achieving Positive Net Energy While Maximizing Use of Existing Assets: The Ejby Mølle WWTP, Odense, Denmark Dru Whitlock	Use of Moving Bed Biofilm Reactors (MBBR) and Integrated Fixed-film Activated Sludge (IFAS) Processes for Nutrient Removal William Leaf	NFPA 820 - Comparison of Compliance Strategies James Goodley	What you don't know could hurt you Ryan Hatch/ULGT	Vortex Grit Removal Notes on Design William Flores	-	
Break			10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	
4:10 - 4:40	A4	-	Energy Impacts from Implementing Nutrient Treatment in Utah's POTWs John Mackey	The Brave New World of Nutrient Control Henryk Melcer	-	If You Are Using CCTV to Find Infiltration, You Might Be Fixing The Wrong Pipe Chuck Hansen	Pre-Rotation Pump technology for Flow-matching, and self-cleaning of Waste Water Influent Wet Wells Ken Goard	-	

Thurs. May 2	Tech Session B	Auditorium	Sunbrook A	Sunbrook B	Sunbrook C	Entrada A	Entrada B	Entrada C
		Topic: Nutrients	Topic: Operator Track	Topic: Biosolids	Topic: Facility Design/Operation	Topic: Collection System - Rehab	Topic: Innovative Technologies/Equipment	-
		Moderator - Paul Krauth	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	-
7:00 - 8:30		Open	Open	Open	Open	PWO Meeting	NV Board Meeting	NV Board Meeting
8:40 - 9:10	B1	Stensel/Barnard	There is an App for that (Using technology to increase your operational effectiveness) Max Hildebrand	Waste to Energy: Turning Headaches Into Cost Savings Toshio Shimada	Trickling Filter Solids Contact Processes - Should they be Upgraded or Abandoned? John Harrison	Overview of all Rehabilitation Options for Lateral and Main/Lateral Connection Technologies Jacob Trapani	Estimation of Biochemical Oxygen Demand Using Fluorescence Spectroscopy Daniel Blake	-
Break			10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break
9:20 - 9:50	B2	Stensel/Barnard	Understanding Anaerobic Digestion Phil Heck	Managing Biosolids: Design Variable Impacts to the Economic Analysis Brett Converse	Expanding/Upgrading Your Plant? Know Your Real Plant Capacity Before You Spend Your Money - Plant Wide Testing Can Reveal Hidden Capacity Henryk Melcer	Pipeline Rehabilitation Joe Lane	On-site Generation of SO2-Bisulfite for De-chlorination Terry Gong	-
9:50 - 10:40			Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall
10:40 - 11:10	B3	Stensel/Barnard	Active O&M Manuals Scott Hess	Biosolids Improvements at North Davis Sewer District David Hatch	Activated Sludge Simplified - Solids Handling is Key Steven Winfree	Pipe Bursting Chris Rhoades	Cost Effective Lagoon Upgrades to Meet Increasingly Stringent New Limits Merle Kroeker	-
Break			10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break
11:20 - 12:00	B4	Stensel/Barnard	Jordan Basin Water Reclamation Facility - The Ups and Downs of Start Up Gordan Evans	Doing More with Less: A Biosolids Management Case Study Doug Barber	Tractive Force Self-Cleansing Analysis and Design of Gravity Sewers--You need to Know! LaVere Merritt	Trenchless Sewer Line Rehabilitation Comes to a Street Near You! Brandon Heidelberger	Algae Control in Wastewater Lagoon Systems for Improved BOD/TSS Effluent Kraig Johnson	-

Thurs. May 2	Tech Session C	Auditorium	Sunbrook A	Sunbrook B	Sunbrook C	Entrada A	Entrada B	Entrada C
		Topic: Nutrients	Topic: Operator Track	Topic: Biosolids	Topic: Facility Design/Operation	Topic: Collection System - Pump Station	Topic: Innovative Technologies/Equipment	-
		Moderator - Paul Krauth	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	-
1:30 - 2:00	C1	Stensel/Barnard	Sharon Burton/CVWRF	The Predator(TM) Aerobic Digestion Process - Improved VSS Destruction and Better Dewatering Using Less Energy Russ Wright	Lessons Learned from Owners/Operators of New Wastewater Treatment Technologies John Harrison	Pump Station Planning Craig Bagley	Evaluation of an Off-the-Shelf Automated Chemical Phosphorus Removal System Ted Holt	-
Break			10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break
2:10 - 2:40	C2	Stensel/Barnard	Sharon Burton/CVWRF	Chemical Treatment of Biosolids to Reduce Disposal Costs Marcus Theodore	Desert Breeze Water Resource Center Rehabilitation Samantha Hanzel	South Jordan Pump Station and Force Main - From Design to Start-Up Brent Packer	Holistic Approach to Odour Control – Use of Sustainable Biotrickling Filter Technology Matthew Johnson	-
2:40 - 3:30			Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall	Break - Exhibit Hall
3:30 - 4:00	C3	Stensel/Barnard	Alan Grant - TBD	High Solids Cake Produced By Advanced High Performance Screw Press Joshua DeValentino	Changes to the Anti-Degradation rules and how they will affect wastewater treatment facilities Brad Rasmussen	Relays and contactors. Why do I have so many? Blaine Bowden	Spring Creek Utilities NV – 2.8 MGD Arsenic Treatment Case Study using an Innovative WaterPOD Coagulation & Filtration Approach and Backwash Recycling Greg Gilles	-
Break			10 min. break	10 min. break	10 min. break	10 min. break	10 min. break	10 min. break
4:10 - 4:40	C4	Stensel/Barnard	Marlow Davis - TBD	Sludge Minimization Coupled with Biological Nutrient Removal - A Step towards Sustainable AS Process Operation Huang Pei	Maximizing your Odor Control Resources: Optimizing Granular Activated Carbon for Odor Control to be a Good Neighbor Samantha Hanzel	Sewage Lift Station Planning, Design, and Operation Gary Vance	Pipe Bursting - Rehabilitation of collection system sewer mainlines and laterals using the trenchless technology of pipe bursting. George Mallakis	-

Fri. May 2	Tech Session D	Auditorium	Sunbrook A	Entrada B	Sunbrook C	Entrada A	Entrada B
		-	Topic: Utility Management	Public Involvement/Finance	Topic: Resource Recovery	Topic: Collection System	Topic: Water Quality
		-	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD	Moderator - TBD
8:30 - 9:00	D1	-	Marijuana Grows in our communities Clifford Lark	Private Utility Service Lateral Insurance Programs - Solutions for Customers dealing with costs of lateral repair Steve Jackson	Side Stream Management: "Why? Because it is good for you!" Chris Machado	Alta Sewer Jump Phenomenon Bryan Mansell	Using Over Ten Years of Trace Organic Research to Develop A 30mgd Tertiary Filtration/Disinfection Project in Las Vegas, Nevada Doug Drury
9:05 - 9:35	D2	-	Clark County Storm Water Program Ebrahim Juma	Understanding Financial Uncertainty: Better Financial Analysis to Counter Risk and Uncertainty Matt Millis	WWTPs: The Core Processor for Generating Bio-fuels & Energy Terry Gong	Collection System Quality Assurance Testing Brandon Wyatt	QUAL2Kw as a decision support tool: considerations for data collection, calibration, and numeric nutrient criteria Andrew Hobson
9:40 - 10:10	D3	-	Design and Construction Considerations for WW Collection and Treatment Systems in Cold Regions Chavan Prithviraj	The Cost Benefit of Insuring Major Infrastructure and Transmission Facilities Against Natural Disasters Darrell Child	Nutrient Recovery from Full scale Municipal Wastewater plants- process feasibility and optimization Ksheeraja Yakkala	Pipe Selection TBD	40 Years of Regulatory Action for Total P Removal and The Impact on Lake Mead Doug Drury
10:15 - 10:45	D4	-	The Effects of Various Chemical Stress Factors on the Performance of Nutrient Removal Amir Motlagh	What Your Customers Don't Know Will Hurt You Susan Tanner Holmes	Creating a New Class of Recycled Water: Our Path to a Sustainable Future Terry Gong	Collection System Jeopardy Michael Foerster	Tracking Nutrients and Their Possible Effects from the Jordan River to the Farmington Bay Impounded Wetlands Theron Miller