

Contact Information:

California Water Treatment Operator Certification

Dist, WT,

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Approval Details:

Attached is the session approval listing for Water Operators attending WEFTEC 2017.

- The items colored **green** are acceptable for the hours shown
- The items colored **orange** are not acceptable for contact hours for Water Operators

Sess #	Session Title	Start Time	End Time	Total Credits Avail.
TECHNICAL SESSIONS - TECHNICAL SESSIONS - TECHNICAL SESSIONS - TECHNICAL SESSIONS - TECHN				
101	Master Lecturer: Nancy Love	10:30 AM	12:00 PM	1.5
102	No Water, No Energy, No Food: Managing the Nexus	10:30 AM	12:00 PM	1.5
103	Private Property I/I in the Collection System	10:30 AM	12:00 PM	1.5
104	How Well Is the TMDL Program Working?	10:30 AM	12:00 PM	1.5
105	Market Pricing to Fund Direct Potable Reuse	10:30 AM	12:00 PM	1.5
106	Resilience: It Means More Than You Think	10:30 AM	12:00 PM	1.5
200	Clean Water Policy Update	1:30 PM	5:00 PM	3.0
201	Let's Get Granular: Theory and Innovation of Granular Sludge	1:30 PM	5:00 PM	3.0
202	Optimizing the Nutrient-Resource-Energy Nexus in a Carbon and Energy Constrained World	1:30 PM	5:00 PM	3.0
203	Late Breaking Research I: Advances in Low Energy Treatment Processes	1:30 PM	5:00 PM	3.0
204	Advanced Treatment Solutions for Difficult Food and Beverage Waste Streams	1:30 PM	5:00 PM	3.0
205	Oil Refining Wastewater Treatment I	1:30 PM	5:00 PM	3.0
206	Membrane Aerated Biofilm Reactors: Knowledge Development Forum	1:30 PM	5:00 PM	3.0
207	Aeration: Knowledge Development Forum	1:30 PM	5:00 PM	3.0
208	Fundamentals of Anaerobic Digestion I	1:30 PM	5:00 PM	3.0
209	Odors and Air Emissions at Water Resource Recovery Facilities	1:30 PM	5:00 PM	3.0
210	Biogas Cleaning, Treatment, and Use for Economic Gain	1:30 PM	5:00 PM	3.0
211	Residuals Management	1:30 PM	3:00 PM	1.5
212	Public Health in the Headlines	1:30 PM	3:00 PM	1.5
213	Collection System Tunnels: From A to Z	1:30 PM	5:00 PM	3.0
214	Collection Systems Rehabilitation and Construction	1:30 PM	5:00 PM	3.0
215	Stream On: Restoration as a Water Quality Practice	1:30 PM	3:00 PM	1.5
216	Updates to WEF's Stormwater Initiatives	1:30 PM	3:00 PM	1.5
217	Nutrient Criteria, Trading, and Case Studies	1:30 PM	5:00 PM	3.0
218	Outreach Success Stories to Build Better Water Communities	1:30 PM	5:00 PM	3.0
219	Small Communities and Decentralized Solutions	1:30 PM	5:00 PM	3.0
220	Potable Reuse is NOW!	1:30 PM	5:00 PM	3.0
221	Hot Topics in an Expanding Water Reuse Market	1:30 PM	3:00 PM	1.5
222	Preparing for Climate Change: Tools for Resilience and Mitigation	1:30 PM	5:00 PM	3.0
223	Biosolids Master Planning	3:30 PM	5:00 PM	1.5
224	Public Health in the Headlines: Emerging Pathogens and Indicators	3:30 PM	5:00 PM	1.5
225	Trending Now: Key Research on BMP Performance	3:30 PM	5:00 PM	1.5
226	Model(ing) Cities: What Big Cities Are Doing	3:30 PM	5:00 PM	1.5
227	If Others Can Do It, So Can You: Energy Savings!	3:30 PM	5:00 PM	1.5
300	Interactive Knowledge Exchange: Innovation	8:30 AM	10:30 AM	1.5
301	Advances in Mainstream Nitrogen Management	8:30 AM	12:00 PM	3.0
302	Late Breaking Research II: From Biogas to Endocrine Disruption - Advances in Advanced Monitoring and Treatment Processes	8:30 AM	12:00 PM	3.0
303	Water and Wastewater Challenges in the Steam Electric Power Industry	8:30 AM	12:00 PM	3.0
304	Refinery Wastewater II	8:30 AM	12:00 PM	3.0

305	Seeing Red! Startup and Operational Strategies for Anammox-Based Sidestream Treatment Facilities	8:30 AM	12:00 PM	3.0
306	Going With the Flow: WRRF Liquid Stream Fundamentals	8:30 AM	12:00 PM	3.0
307	Enhancements to Biological Phosphorus Removal To Overcome New Challenges	8:30 AM	12:00 PM	3.0
308	Advanced Modeling To Solve Complex Operational Issues	8:30 AM	10:00 AM	1.5
309	Land-Based Biosolids Management Solutions	8:30 AM	12:00 PM	3.0
310	Co-Digestion of High-Strength Wastes	8:30 AM	12:00 PM	3.0
311	Disinfection Fundamentals: The New Manual of Practice	8:30 AM	12:00 PM	3.0
312	Effective Collection Systems O&M Techniques	8:30 AM	12:00 PM	3.0
313	Collection System Basics You Really Need to Know!	8:30 AM	12:00 PM	3.0
314	In Case It Is Not a Hoax: Climate Resilience and Flooding	8:30 AM	12:00 PM	3.0
315	Whatcha Looking At: Stormwater BMP Inspections	8:30 AM	10:00 AM	1.5
316	Modeling: Changing the Spotlight	8:30 AM	12:00 PM	3.0
317	Conveyance and Pumping Condition Assessment	8:30 AM	12:00 PM	3.0
318	Nexus of Master Plans and Asset Management Plans: An Integrated Approach	8:30 AM	10:00 AM	1.5
319	TNT: Dynamite Treatment for Potable Reuse	8:30 AM	12:00 PM	3.0
320	One Water: Realizing Integrated Water Management	8:30 AM	12:00 PM	3.0
321	Primary Treatment: Manufacturers' Innovative Technology Forum	8:30 AM	12:00 PM	3.0
322	Odor Practices in the WRRF and Collection System: Results From the 2016 Odor Benchmarking Survey	10:30 AM	12:00 PM	1.5
323	Area 51 and Other Challenging Settings for Stormwater Management	10:30 AM	12:00 PM	1.5
324	Finding the Money! Status of Available Funding Programs	10:30 AM	12:00 PM	1.5
325	Utility Leadership in Action: Becoming the Employer of the Future	10:30 AM	12:00 PM	1.5
326	Mobile Session: Aeration Blowers	10:30 AM	12:00 PM	1.5
327	Mobile Session: Anaerobic Digestion Fundamentals	9:00 AM	10:30 AM	1.5
328	Mobile Session: Aeration Diffusers	9:00 AM	10:30 AM	1.5
329	Interactive Knowledge Exchange: Thought Leadership	10:30 AM	1:30 PM	N/A
400	Interactive Knowledge Exchange: Public Outreach	1:30 PM	3:30 PM	N/A
401	Intensification of Biological Phosphorus Removal	1:30 PM	5:00 PM	3.0
402	Anaerobic Treatment for Brewery Wastewater	1:30 PM	3:00 PM	1.5
403	Meeting the Challenges of Implementing a \$6 Billion Wastewater Infrastructure Program	1:30 PM	5:00 PM	3.0
404	404 Balancing Flocculent and Granular Growth for BNR Processes: Knowledge Development Forum	1:30 PM	5:00 PM	3.0
405	True Grit: Stories of Characterization, Design, and Optimization	1:30 PM	3:00 PM	1.5
406	Carbon is the Key	1:30 PM	3:00 PM	1.5
407	Insane in the Membrane: Innovations in Lowering MBR Operational Costs	1:30 PM	3:00 PM	1.5
408	Wet Weather Treatment Strategies and Real Time Control	1:30 PM	5:00 PM	3.0
409	Improving Aeration Efficiency Through Equipment Selection and Control Strategies	1:30 PM	5:00 PM	3.0
410	Improving Anaerobic Digestion Through Pre-Treatment	1:30 PM	3:00 PM	1.5
411	Peracetic Acid Disinfection: Current Research and Evaluations	1:30 PM	5:00 PM	3.0
412	Together Again: Wet Weather, I/I, and Pump Stations in the Collection System	1:30 PM	5:00 PM	3.0
413	Collection System Models: The Foundation of Planning, Design, Construction, and Post-Construction Evaluation	1:30 PM	5:00 PM	3.0
414	Measuring Up: BMP Monitoring Design and Performance	1:30 PM	5:00 PM	3.0

415	A Long Time Ago in a Galaxy Far, Far Away: Stormwater Design Out of This World	1:30 PM	3:00 PM	1.5
416	Blame It on the Rain: Back to the Stormwater Basics	1:30 PM	3:00 PM	1.5
417	Riparian Restoration and All the Rest	1:30 PM	3:00 PM	1.5
418	Workforce Development Complements Asset Management	1:30 PM	5:00 PM	3.0
419	Alternative Project Delivery Methods: Yes, They Work	1:30 PM	5:00 PM	3.0
420	Winning Utility Management! EUM Strategies	1:30 PM	5:00 PM	3.0
421	Real-World Beneficial Applications of Water Reuse	1:30 PM	5:00 PM	3.0
422	Integrated Approach to Sustainable Water Management: Tools and Planning Frameworks to Enable Better Decision-Making	1:30 PM	3:00 PM	1.5
423	Insane in the Membrane: MBR Manufacturer Panel	3:30 PM	5:00 PM	1.5
424	Invited ISA Session: Automation	3:30 PM	5:00 PM	1.5
425	Phosphorus Recovery	3:30 PM	5:00 PM	1.5
426	Thermal Systems: Challenges and Solutions	3:30 PM	5:00 PM	1.5
427	Oh the Places You'll Go: Stormwater Case Studies	3:30 PM	5:00 PM	1.5
428	Better Nutrient Reduction Through Watershed Based Permitting	3:30 PM	5:00 PM	1.5
429	Future Proofing Your Utility: Leveraging Innovation	3:30 PM	5:00 PM	1.5
430	Mobile Session: Water and Wastewater 101	1:30 PM	5:00 PM	1.5
431	Mobile Session: Oil Refining Wastewater Treatment	1:30 PM	3:00 PM	1.5
432	Mobile Session: Solutions to Real-World Odor Problems	3:00 PM	4:30 PM	1.5
433	Mobile Session: Steam Electric Power Plant Wastewater Treatment Technology	3:00 PM	4:30 PM	1.5
434	Mobile Session: Nutrient Analyzers and Sensors	3:30 PM	5:00 PM	1.5
435	Mobile Session: Potable Reuse Treatment Technologies	3:30 PM	5:00 PM	1.5
500	What's in Your Sludge? Application of Modern DNA Tools	8:30 AM	12:00 PM	3.0
501	Commax: New Kid on the Block, or Not?	8:30 AM	10:00 AM	1.5
502	Selenium Treatment Issues: Technology Applications for Different Forms	8:30 AM	12:00 PM	3.0
503	Industrial Reuse Applications and Technologies: Preserving a Limited Resource	8:30 AM	12:00 PM	3.0
504	Carbon Management Forum: New Frontiers Through Primary Filtration and A-Stage Treatment	8:30 AM	12:00 PM	3.0
505	State-of-the-Art in Instrumentation, Control, and Automation	8:30 AM	12:00 PM	3.0
506	Recovering Resources at the Source and at the Plant	8:30 AM	10:00 AM	1.5
507	Case Studies on Process Model Application at Resource Recovery Utilities	8:30 AM	12:00 PM	3.0
508	Mining Data for Asset Management	8:30 AM	12:00 PM	3.0
509	The Pursuit for Acceptable Exceptional Quality Biosolids	8:30 AM	12:00 PM	3.0
510	Dewatering Characteristics and Equipment Selection	8:30 AM	10:00 AM	1.5
511	UV Disinfection	8:30 AM	10:00 AM	1.5
512	Collection System Condition Assessment: Out of Sight, But Not Forgotten!	8:30 AM	10:00 AM	1.5
513	MS4 1-1 Strategies and Innovations in Program Development, Land Use, Regulations, and Mapping	8:30 AM	12:00 PM	3.0
514	Time Out! Evaluating the Promise and Practice of Real-Time Control (RTC) for Stormwater Management	8:30 AM	12:00 PM	3.0
515	Bacteria: Trust Your Gut!	8:30 AM	12:00 PM	3.0
516	Efficient and Effective Utility Management: The New Normal	8:30 AM	12:00 PM	3.0
517	What Do The Energy Metrics Tell Us?	8:30 AM	10:00 AM	
518	Streamlining Infrastructure Management to Optimize Asset Management Decision-Making	8:30 AM	10:00 AM	1.5
519	Advanced Water Treatment Design Essentials for Water Reuse	8:30 AM	10:00 AM	1.5
520	Carbon and Nitrogen Losses Through Gases	10:30 AM	12:00 PM	1.5

521	Improved Dewatering Through Sludge Pretreatment	10:30 AM	12:00 PM	1.5
522	Permeable Pavement Performance Monitoring: Volume and Pollution Control	10:30 AM	12:00 PM	1.5
523	Public Private Partnership: Hmm!	10:30 AM	12:00 PM	1.5
524	Getting Rid of Your Pathogens and Proving It	10:30 AM	12:00 PM	1.5
525	Different Approaches to Resiliency	10:30 AM	12:00 PM	1.5
526	Mobile Session: Membrane Bioreactors	9:00 AM	10:30 AM	1.5
527	Mobile Session: Food and Beverage	8:30 AM	12:00 PM	3.0
528	Mobile Session: Lateral Rehabilitation - Technology Effectiveness Comparison	10:30 AM	12:00 PM	1.5
529	Mobile Session: See the Light: A Walking Tour of UV Systems	10:30 AM	12:00 PM	1.5
600	WE&RF Knowledge Development Forum: Charting New Research Territories	1:30 PM	5:00 PM	3.0
601	Application of Advanced Biological Treatment Processes to Challenging Industrial Wastewaters	1:30 PM	5:00 PM	3.0
602	Upstream Oil and Gas Wastewater Treatment	1:30 PM	3:00 PM	1.5
603	Industrial Wastewater Treatment	1:30 PM	3:00 PM	1.5
604	Full-Scale Performance of Biofilm-Based Processes	1:30 PM	3:00 PM	1.5
605	Clarifier Modeling	3:30 PM	5:00 PM	1.5
606	Advances in Anaerobic Membrane Bioreactor (AnMBR) Technologies	1:30 PM	3:00 PM	1.5
607	It Smells Good in the Neighborhood: Collection System Odor and Corrosion Control	1:30 PM	5:00 PM	3.0
608	State of the Art Sensors for Process Monitoring	1:30 PM	3:00 PM	1.5
609	Anaerobic Digestion	1:30 PM	5:00 PM	3.0
610	Emerging Topics and Technologies in the Collection System	1:30 PM	5:00 PM	3.0
611	Pre-Construction SWPPP Planning	1:30 PM	3:00 PM	1.5
612	PAH Humbug! PAHs and Contaminated Stormwater Pond Sediments: The Science and the Problem of Polycyclic Aromatic Hydrocarbons	1:30 PM	5:00 PM	3.0
613	A New Era for the Chicago Area Waterway System: Updates From the Metropolitan Water Reclamation District of Greater Chicago and Argonne National Laboratory	1:30 PM	3:00 PM	1.5
614	Developing Project Specifications: Know and Get the Quality Equipment You Want Through Better Specs	1:30 PM	5:00 PM	3.0
615	Envision: Successes and Challenges After Five Years of Implementation in Utility Projects	1:30 PM	5:00 PM	3.0
616	Public Communication: Selling the Value of Water	1:30 PM	5:00 PM	3.0
617	Juggling Multiple Capital Improvement Program (CIP) Drivers in a World of Cost and Affordability Constraints	1:30 PM	3:00 PM	1.5
618	Ensuring Reuse Water Quality Through Source Control	1:30 PM	3:00 PM	1.5
619	Landfill Leachate Treatability	3:30 PM	5:00 PM	1.5
620	Plant Optimization: How To Make a Good Thing Better	3:30 PM	4:30 PM	1.0
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W01	Nutrient Removal Fundamentals: Relating the Science of BNR to the Design of BNR for Municipal WWTPs	8:30 AM	5:00 PM	0.6
W02	Design and Modeling of Advanced Biofilm Reactor Technologies for Nutrient Removal and Recovery	8:30 AM	5:00 PM	0.6
W03	Wastewater Treatment Microbiology	8:30 AM	5:00 PM	0.6
W04	Bacteriophage Analyses for Biosolids and Water Quality Standards Assessment	8:00 AM	5:30 PM	0.6
W05	Grit Removal Systems: Do's and Don'ts, Hands-On Operation and Maintenance, and Grit Sampling and Characterization	8:30 AM	5:00 PM	0.6

W06	Part 1: Introduction to Open Source CFD for Water Resource and Recovery Facilities	8:30 AM	5:00 PM	0.6
W07	Respirometry Renaissance: Realizing the Potential of Respirometry for Diagnostic and Control Applications	8:30 AM	5:00 PM	0.6
W08	Using On-Line Analyzers to Meet Stringent Nitrogen and Phosphorous Limits	8:30 AM	5:00 PM	0.6
W09	Integrated Solids Management: Managing Organics in a Green World	8:30 AM	5:00 PM	0.6
W10	Performance Management for Collection System O&M Programs	8:30 AM	5:00 PM	0.6
W11	Fundamentals of Wastewater Disinfection: Disinfect to Protect	7:30 AM	5:30 PM	0.6
W12	Water Reuse 101: Primer on Development of Nonpotable and Potable Systems	8:30 AM	5:00 PM	0.6
W13	WEF/WE&RF Integrated Planning: A Solution for Your Utility?	8:30 AM	5:00 PM	0.6
W14	Journey to the Center of Alternative Project Delivery Methods	8:30 AM	5:00 PM	0.6
W15	Advanced Refinery Wastewater Treatment	8:30 AM	5:00 PM	0.6
W16	Water Reuse in the Food and Beverage Industry	8:30 AM	5:00 PM	0.6
W17	Finding Your Path to Resource Recovery	8:30 AM	5:00 PM	0.6
W18	Knowledge Development Forum: The Cost-Benefit of High Quality Data - Better Decisions, Improved Treatment	8:30 AM	5:00 PM	0.6
W19	Wastewater Treatment Microbiology	8:30 AM	5:00 PM	0.6
W20	Activated Sludge and BNR Process Control: Hands-On in the Real World	7:30 AM	5:30 PM	0.6
W21	Part 2: Unit Process Models for Open Source CFD for Water Resource and Recovery Facilities	8:30 AM	5:00 PM	0.6
W22	The Release of Odors: When Doing Your Job Right Results in This Unintended Consequence	8:30 AM	5:00 PM	0.6
W23	The Universe of Digester Gas Utilization and How To Select the Best Alternative for Your WRRF	8:30 AM	5:00 PM	0.6
W24	WEF/WE&RF Source Control and the Transformation of Your WRRF Into a SWTF: Integrating DPR Into the Water Resource Recovery Facility Paradigm	8:30 AM	5:00 PM	0.6
W25	WEF/WE&RF Fostering Innovation Within Water Utilities	8:30 AM	5:00 PM	0.6
W26	Practical Operation and Maintenance for Pumps: Progressive Cavity Pumps	8:30 AM	1:00 PM	0.5
W28	Special Seminar: Life Cycle Analysis of Green Infrastructure	1:30 PM	5:00 PM	0.3
WLI	Water Leadership Institute Workshop	8:30 AM	4:00 PM	6.0
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T1	Stickney Water Reclamation Plant, featuring Nutrient Recovery Technology	1:30 PM	3:30 PM	2.0
T2	Collection Systems Tour: McCook Reservoir	1:45 PM	3:45 PM	2.0
T3	Kenosha Water Utility's Energy-Optimized Resource Recovery Project	9:30 AM	12:30 PM	3.0
T4	Plant Chicago - A Circular Economy in Action	10:00 AM	11:00 PM	1.0

T5	Exploring Green Infrastructure Installations and Maintenance Practices in the Chicago Region	1:00 PM	4:00 PM	3.0
T6	Woodridge-Greene Valley Wastewater Plant, featuring Nutrient Recovery Technology	1:45 PM	3:15 PM	1.5
T7	Terrence J. O'Brien Water Reclamation Plant, featuring Algae Research Facility	1:30 PM	4:30 PM	3.0