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Approval Details:

At the NWEA has approved WEFTEC 2019® for Continuing Education credits (CEUs). Please review the session list below showing specific session approval details.

Attendees are required to submit copies of their certificate and transcript directly to the state. Operators and Engineers should also supply WEF with their State License Number during or following the conference.

WEF is also required to submit a copy of the detailed attendee list of participants after each conference.

WEF 2019 - APPROVED 8/29/19

Course #	Name of Course	CEUs	WW	S/S	NA	Session
NV19-313	WEF/AEESP Master Lecturer: Bruce Logan	1.5	X			100
NV19-314	Exploring Solutions Within the Water-Energy-Food Nexus	1.5	X			101
NV19-315	Intelligent Water Systems Challenge: The Finals	1.5	X			102
NV19-316	From Research to Full-Scale Systems in a Decade: The Rapid Rise of Peracetic Acid for Wastewater Disinfection	1.5	X			103
NV19-317	Peak Flow Management: Where Do We Stand?	1.5	X			104
NV19-318	State and Future of Stormwater	1.5			X	105
NV19-319	Reuse on the Storm: Opening the Doors for Stormwater Reclamation Across America	1.5	X			106
NV19-320	The Value of Water: Water's Priceless!	1.5	X			107
NV19-321	Water Policy Update	3.0	X			200
NV19-322	Novel Intelligent Equipment in Wastewater: Manufacturers' Innovative Technology Forum	3.0	X			201
NV19-323	Mainstream Deammonification	1.5	X			202
NV19-324	Innovative Wastewater Treatment Process Control Methods and Approaches	1.5	X			203
NV19-325	Join the Control Nerds Club: Process Control Fundamentals	3.0	X			204
NV19-326	Strategies to Prevent Bulking in Activated Sludge Systems	3.0	X			205
NV19-327	True Grit: Stories of Testing, Design, and Implementation in the Wild West	1.5	X			206
NV19-328	Planning, Evaluation, Design, and Sustainability: Odor Control Has It All!	3.0	X			207
NV19-329	Emerging Trends in Phosphorus Removal and Recovery: Outcomes From the James Barnard Phosphorus Forum	1.5	X			208
NV19-330	Department of Energy (DOE) Solutions for Water Sector Energy Recovery	3.0	X			209
NV19-331	More Applications and Studies in THP Yield New Insights	3.0	X			210
NV19-332	Competitive Design of Dewatering Facilities	1.5	X			211
NV19-333	Knowledge Development Forum: What are PFAS and What Do We Need to Know?	3.0	X			212
NV19-334	Inflow and Infiltration Assessment: Finding and Removing Sources of Leakage	3.0	X			213
NV19-335	Pump Stations and Force Mains	3.0	X			214
NV19-336	Working Out: Building Frameworks for Successful Stormwater O&M	1.5			X	215
NV19-337	Make No Little Plans: CSO Planning With Stormwater Management Focus	1.5			X	216
NV19-338	Making Models Matter: Understanding and Resolving Complex Water Quality Problems	3.0	X			217
NV19-339	Data and Information Management: The Nucleus of Asset Management	3.0	X			218
NV19-340	Small Communities: Processes for Nutrient Removal	1.5	X			219
NV19-341	IPR/DPR: Resistance is Futile!	3.0	X			220
NV19-342	Future of Reuse: Economics, Decentralized Systems, and IPR	1.5	X			221
NV19-343	Food Water Nexus: What's on the Menu?	1.5	X			222
NV19-344	Solutions and Ideas From Award Winning Industrial Experts	1.5			X	223

NV19-345	From Microbial Community to Full Scale Optimization of BioP	1.5	X			224
NV19-346	Advances in Primary and Primary Effluent Filtration	1.5	X			225
NV19-347	It's (Not) Settled! Updates in Secondary Clarification Understanding	1.5	X			226
NV19-348	Maximizing Energy Savings Through Advanced Aeration Control Strategies	1.5	X			227
NV19-349	Stormwater Alternative Project Delivery	1.5			X	228
NV19-350	Case in Point: Current CSO Case Studies	1.5			X	229
NV19-351	Workforce Issues: Have You Prepared for the 'Silver' Tsunami?	1.5	X			230
NV19-352	Evaluating Microbes: Working Out the Bugs in a Reuse System	1.5	X			231
NV19-353	ReNEW: Measuring Our Impact on Nutrient, Energy, and Water Recovery	1.5	X			232
NV19-354	Interactive Knowledge Exchange: Utility Management and Thought Leadership - Technical and Research and	3.0	X			300
NV19-355	Late Breaking Research: Advances in Resource Recovery	3.0	X			301
NV19-356	Solving Food and Beverage Wastewater Challenges Using Innovative Process Technologies	3.0	X			302
NV19-357	Optimization of Petroleum Refinery Wastewater Treatment	3.0	X			303
NV19-358	Knowledge Development Forum: Application of Selectors for Continuous Flow Granulation	3.0	X			304
NV19-359	A Flexible Solution: Membranes for a Variety of Advanced Wastewater Treatment Applications	3.0	X			305
NV19-360	More Than Hot Air: Optimizing Aeration Systems	3.0	X			306
NV19-361	Mainstream P Removal: Modeling to Operation	3.0	X			307
NV19-362	Comparing Sensors and Analyzers: In-Situ vs. Soft Sensors	1.5	X			308
NV19-363	Get Down: Process Control Strategies To Meet Low Effluent TN Limits	3.0	X			309
NV19-364	Advancements in Staged, Thermophilic, and Aerobic Digestion Processes	3.0	X			310
NV19-365	Setting the Stage for Dewatering Success	3.0	X			311
NV19-366	Disinfection Flyover: Fundamentals	1.5	X			312
NV19-367	Basics Collections Systems 101	3.0	X			313
NV19-368	Flow Analysis Methods to Solve Collection System Flow Problems: Rainfall, RDII, Climate Change, and Hydraulics	3.0	X			314
NV19-369	MS4, 3, 2, 1 & 'Go! Regulations, Coalitions, and Strategies for Success	3.0			X	315
NV19-370	What's New in Stormwater: Emerging Trends and Applications	1.5			X	316
NV19-371	What Is Beyond Integrated Planning?	1.5	X			317
NV19-372	Have You Checked Your Planning Compass?	3.0	X			318
NV19-373	Utility Management: Seeing (and Using) the Right Information Through the Forest of Systems and Data	3.0	X			319
NV19-374	Small Communities: Compliance and Innovative Treatment	1.5	X			320
NV19-375	Treatment for Groundwater Recharge: So the Well Won't Run Dry	3.0	X			321
NV19-376	Shared Experiences: 7 Years Post Super Storm Sandy	1.5			X	322
NV19-377	Worker Safety and Public Health	1.5			X	323

NV19-378	Get Smart: Data and Technology Applications in Stormwater	1.5			X	324
NV19-379	Solving Re(Dis)solved Problems	1.5	X			325
NV19-380	Small Communities: Planning for Upgrades and Replacements Ensures Compliance	1.5	X			326
NV19-381	Utility Leadership Forum: Capturing the Value of Diversity in Your Workforce	1.5	X			327
NV19-382	Stakeholder Inclusive Planning for Sustainable Water Solutions	1.5	X			328
NV19-383	Interactive Knowledge Exchange - Public Outreach and Say Anything Challenge	1.5	X			400
NV19-384	Knowledge Development Forum: Interaction of the Carbon, Nitrogen, and Phosphorus Cycles for Intensified	3.0	X			401
NV19-385	Alternate Nitrogen Removal and Pathways	3.0	X			402
NV19-386	Industrial Wastewater Reuse? Really, Really, Really!	3.0	X			403
NV19-387	Produced Water Treatment in the Upstream Oil & Gas Industry	1.5	X			404
NV19-388	Aerobic Granular Sludge: From Pilot to Full Scale	1.5	X			405
NV19-389	The Old Dog and Its New Tricks: Approaches to Carbon Redirection and Primary Treatment Improvements	3.0	X			406
NV19-390	Knowledge Development Forum: From Research to Practice - Energy Sustainability	3.0	X			407
NV19-391	Big Data, Machine Learning, and Predictive Control	3.0	X			408
NV19-392	Exciting Asset Management Case Studies! Installation and Maintenance Practices for Ensuring Equipment	3.0	X			409
NV19-393	Sidestream Success! N and P Removal Case Studies	3.0	X			410
NV19-394	Co-Digestion: Impacts of Adding Food Waste and FOG	3.0	X			411
NV19-395	Resource Recovery From Biosolids: Phosphorus/Energy	3.0	X			412
NV19-396	Wet Weather Management and Flow Equalization: Addressing Wet Weather Flow Issues Around the World	3.0	X			413
NV19-397	Sewer Rehabilitation and Construction	3.0	X			414
NV19-398	Cases in Point: Current MS4 Case Studies	1.5			X	415
NV19-399	We Know What's Bugging You: Stormwater Bacteria Research	1.5			X	416
NV19-400	TMDL Whack-A-Mole: Hitting a Moving Target	3.0	X			417
NV19-401	Linear Asset Management: What Your Collection System is Trying to Tell You	3.0	X			418
NV19-402	Integrated Planning Round Table	1.5	X			419
NV19-403	People as an Asset: Where is YOUR Workforce?	1.5	X			420
NV19-404	To Infinity and Beyond: Technologies for Combating the Water Reuse Challenges of Tomorrow	3.0	X			421
NV19-405	Solutions for Coastal City Resiliency	3.0	X			422
NV19-406	Modeling of Aerobic Granular Sludge	1.5	X			423
NV19-407	Novel Approaches for Mainstream Phosphorus: Removal and Recovery	1.5	X			424
NV19-408	Novel Investigations in Treatment of Chemical/Pharmaceutical Wastewater	1.5	X			425
NV19-409	Industrial Dis-Ease: The Multi-Sector General Permit and Industrial Stormwater	1.5			X	426
NV19-410	Everyone Needs a Filter: Stormwater Filtration and Media Research	1.5			X	427
NV19-411	DATA: Key to Optimizing Planning and Decision Making	1.5	X			428

NV19-412	Shortcut Nitrogen With BioP	1.5	X			500
NV19-413	The 3 Ps: Plastic, Pharmaceuticals, and Pesticides	3.0	X			501
NV19-414	Metals Removal From Leachate, Uranium Contaminated Water, and Gold Mine Wastewater	1.5	X			502
NV19-415	Fundamentals of Chemical Coagulation and Flocculation	3.0	X			503
NV19-416	Knowledge Development Forum: Operational Considerations for Low Dissolved Oxygen Operation in	3.0	X			504
NV19-417	We Don't Need No Stinking Bubbles! Advancements in MABR Technologies	3.0	X			505
NV19-418	Fundamentals: ABC's of BNR - From Conventional to the Next Frontier	1.5	X			506
NV19-419	Blame it on the Rain: Treatment of Wet Weather Flows	3.0	X			507
NV19-420	Fundamentals of Nitrogen and Phosphorus Recovery and Tools for Assessment	1.5	X			508
NV19-421	What's in Your Wastewater? Wastewater Characterization: Learning to Measure Metals,	3.0	X			509
NV19-422	Not Treatment Technology: The Other Critical Components of an Odor Control System	3.0	X			510
NV19-423	Biogas Quality and Finance	1.5	X			511
NV19-424	Next Generation Disinfection: What's on the Horizon	1.5	X			512
NV19-425	Advanced Hydraulics: How To Solve the Really Tough Problems in Your Collection System	1.5	X			513
NV19-426	Staying High and Dry: Approaches for Flood Resiliency	1.5			X	514
NV19-427	Function Follows Form: Excellence in Stormwater Design	3.0			X	515
NV19-428	We're Lookin' at YOU, Watershed: Technology Enhancements for Monitoring and Stakeholder	3.0	X			516
NV19-429	The End of the Rainbow: Where To Look for Your Pot of Gold	1.5	X			517
NV19-430	Outside the Box Rate Making: When Traditional Rates Don't Fit	1.5	X			518
NV19-431	Not Pipe Dreams: Reality of Long Linear Projects	1.5	X			519
NV19-432	Engineered Equipment Procurement Process: Buying the Right Equipment To Meet Your Facility's Needs	3.0	X			520
NV19-433	Ozone/BAF: Proving the Technology for Direct and Indirect Potable Reuse Systems	3.0	X			521
NV19-434	Water Scarcity and Treatment Challenges in the Automotive Industry	1.5	X			522
NV19-435	Mainstream Nitrite-Shunt Processes	1.5	X			523
NV19-436	Nutrient Removal and Recovery: Municipal Planning and Implementation	1.5	X			524
NV19-437	Keeping It In-House: Utility SCADA Development Advantages	1.5	X			525
NV19-438	Biosolids Drying the Right Way	1.5	X			526
NV19-439	Disinfection Disentangled	1.5	X			527
NV19-440	Keeping Our Heads Above the Water: Dealing With Urban Storm Events	1.5			X	528
NV19-441	Why Become a Utility of the Future?	1.5	X			529
NV19-442	How To Slice Your CIP Pie: 3 Ways to Develop a Prioritized CIP	1.5	X			530
NV19-443	Project Delivery: Bigger Really is Better	1.5	X			531

NV19-444	Knowledge Development Forum: Dewatering Principles	1.5	X			600
NV19-445	Late Breaking Research: Advances in Monitoring and Modeling of Environmental Systems	2.0	X			601
NV19-446	Application of MBRs for Industrial Wastewater Treatment and Reuse	2.0	X			602
NV19-447	Water Challenges in the Electric Power Industry	2.0	X			603
NV19-448	We Don't Need No Stinking Bubbles, Too! Modeling MABR Technologies	1.5	X			604
NV19-449	Overcoming Challenges To Meet Effluent Phosphorus Targets	1.5	X			605
NV19-450	Nutrient Removal and Recovery in Practice: Full Scale Case Studies	1.5	X			606
NV19-451	Highlights From the Smart Water Networks Forum (SWAN) 2019 Conference	2.0	X			607
NV19-452	International Society of Automation (ISA): Best of Cybersecurity	2.0		X		608
NV19-453	Data Driven Solutions for Biosolids Processing	1.5	X			609
NV19-454	Tunnels: What Lies Deep Beneath Your Feet	2.0		X		610
NV19-455	CYA: Change Your Attitude, Inspect Your Collection System Assets	2.0	X			611
NV19-456	WEFTEC's Next Hot Model in Stormwater	1.5			X	612
NV19-457	Becoming an Asset (Management) to the Organization: Tools and Applications for Stormwater	1.5	X			613
NV19-458	From Source to Plant: Progressing Through Improvements Using Progressive Design Build	1.5	X			614
NV19-459	Communicate, Communicate, Communicate: Why Public Outreach and Communications Matter!	1.5	X			615
NV19-460	Research, Reuse, Repeat: Pushing the Envelope in Water Reuse Technology	1.5	X			616
NV19-461	A Tale of One Water	1.5	X			617
NV19-462	Closing Session	1.0			X	618
NV19-463	Opening General Session	1.5			X	OGS
NV19-464	Special Seminar: Stormwater Infrastructure Lifecycle Costs and Planning Using CLASIC	3.0			X	SS01
NV19-465	Collection Systems Tour: Calumet Water Reclamation Plant, TARP Pumping Station and Thornton Composite	4.0	X			T1
NV19-466	Terrence J. O'Brien Water Reclamation Plant	3.0	X			T2
NV19-467	Fermi Lab: From Big Bang to Clean Water	3.5	X			T3
NV19-468	Goose Island Beer Company Fulton Street Brewery	3.0	X			T4
NV19-469	Space to Grow – Greening Chicago Infrastructure	4.0			X	T5
NV19-470	Plant Chicago - A Circular Economy	2.75	X			T6
NV19-471	Revolution Brewing Kedzie Production Facility	3.5	X			T7
NV19-472	Train the Trainer: Wastewater Treatment Fundamentals I - Liquid Treatment Publication and Resources	3.0	X			TTT01
NV19-473	Refinery Wastewater Treatment 201: Advanced Curriculum	6.0	X			W01
NV19-474	Nutrient Removal Fundamentals: Relating the Science of Nutrient Removal to the Design and Operation of	6.0	X			W02
NV19-475	Game Based Modeling	6.0	X			W03
NV19-476	Wastewater Microbiology	6.0	X			W04
NV19-477	Using Online Analyzers To Meet Stringent Nutrient Limits	6.0	X			W05
NV19-478	Assessment and Regulation of Microbial Pathogen Indicators in Water and Biosolids	6.0	X			W06

NV19-479	Greenhouse Gas Accounting for Wastewater Utilities	6.0	X			W07
NV19-480	WEF/WRF Co-Digestion: What Can We Handle?	6.0	X			W08
NV19-481	Sewer Rehabilitation Practices for Mitigating I/I: Integrated Approaches, Innovative Technologies, and	6.0	X			W09
NV19-482	Membranes for Water Reuse: Past, Present, Future	6.0	X			W10
NV19-483	Public-Private Partnerships: What They Are and What They Aren't	6.0	X			W11
NV19-484	WEF/WRF LIFTING Your Utility with Business Process Modeling and Improvement	6.0	X			W12
NV19-485	Upping Your Utility's Game in Achieving Continuous Improvement	6.0	X			W13
NV19-486	River Water Quality Modeling With HEC-RAS Version 5.1	6.0	X			W14
NV19-487	Industrial Wastewater Reuse in Manufacturing Facilities: One Water Goes Private	6.0	X			W15
NV19-488	Design and Modeling of Advanced Biofilm Reactor Technologies for Nutrient Removal and Recovery	6.0	X			W16
NV19-489	Solids Stabilization Fundamentals: Seeking the Skinny on Sludge	6.0	X			W17
NV19-490	Wastewater Microbiology	6.0	X			W18
NV19-491	Advanced Workshop in Design, Startup, and Optimization of Liquid Phase Odor Control Technologies	6.0	X			W19
NV19-492	Activated Sludge and BNR Process Control: Hands-On in the Real World	6.0	X			W20
NV19-493	Be a Hero, Get to Zero: The Journey to Energy Neutrality	6.0	X			W21
NV19-494	Turning RINS Into Money: Capitalizing on Biogas Recovery Projects and Generating Revenue at WTPs	6.0	X			W22
NV19-495	Pathogens and Constituents of Emerging Concern in Wastewater Effluent and Water Reuse	6.0	X			W23
NV19-496	Your Water Reuse: Potable or Non-Potable?	6.0	X			W24
NV19-497	Communications Camp: Tools to Engage, Motivate, and Reassure Your Community	6.0	X			W25
NV19-498	What If Clean Water is Just the Byproduct? Rethinking Resource Recovery at WRRFs	6.0	X			W26
NV19-499	Resilient Groundwater: Managing Aquifers for One Water	6.0	X			W27
NV19-500	Water Leadership Institute	6.0	X			WLI