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2008

Conference
Announcement

81st Annual Water Environment Federation
Technical Exhibition and Conference

McCormick Place | Chicago, Illinois, USA

Conference | October 18-22, 2008

Exhibition | October 19-22, 2008

**Water Environment
Federation**
*Preserving & Enhancing
the Global Water Environment*

WET
WATER ENVIRONMENT & TECHNOLOGY
THE OFFICIAL PUBLICATION OF WEF

world water
and Environmental Engineering
The Official International Publication of WEF

workshops at a glance

Track	Saturday, October 18 8:30 am – 5:00 pm	Sunday, October 19 8:30 am – 4:30 pm
Leading Edge Research		W201 WEF/WERF: Nutrients Removal: What the U.S. EPA, WERF, and Others Are Doing To Help Address This Challenge
Industrial Issues and Treatment Technology		W202 Tackling Industrial Wastewater Treatment Challenges
Municipal Wastewater Treatment Process	W101 WEF/WERF: Demonstrated Processes for Limit of Technology Nutrient Removal: Achievable Limits and Statistical Reliability W102 Membrane Bioreactors: How Far Are We Now and Where Are We Going? A Companion Program to Workshop W207 W103 Advanced Hands-On Workshop on Whole Wastewater Treatment Plant Modeling	W203 Upgrading Plants Using IFAS, MBBR, and Membrane Technologies: Process Selection and Operation W204 Pumping 101: Basic and Advanced Wastewater Pump Station Design and Operation W205 WEF/WERF: Making It Go Away: An Overview of Waste Sludge Reduction Technologies W215 WERF: Constructed Wetlands for Nutrient Control and Wastewater Treatment
Facility Operations	W104 Activated Sludge and BNR Process Control in a BNR World: A Companion Program to Workshop W206 W105 Maintenance Fundamentals for a High Performance Organization	W206 Activated Sludge and BNR Process Control – Hands-On in the Real World: A Companion Program to Workshop W104 W207 Membrane Bioreactors—Innovative Operations: A Companion Program to Workshop W102 W208 Wastewater Treatment Microbiology
Laboratory Practices	W106 Understanding and Applying On-Line Process Analyzers W107 Wastewater Treatment Microbiology	
Residuals and Biosolids Management	W108 Selecting a Class A Physical/Chemical Treatment for Biosolids	
Collection Systems	W115 WERF: The Latest on WERF Collection Systems Research	W209 Sustainable Infrastructures: Designing for Collection Systems O&M
Watershed and Stormwater Management	W109 Green Infrastructure: The Windy City and Beyond	W210 The Next Phase of the Clean Water Act: Getting Ready for NPDES Phase II Repermitting
Surface Water Quality and Ecology		W211 WEF/WERF: Getting Prepared for “New” Pathogen Standards
Sustainability and Climate Change	W110 Wastewater Treatment in Tomorrow’s Climate Change-Driven World	
Utility Management	W111 Strategic Workforce Planning for Leaders at All Levels: Getting, Keeping, and Developing Your New Workforce W112 Using Management Systems To Reduce Costs and Improve Performance	W212 Setting Levels of Service and Involving Customers and Stakeholders To Sustain Your Community
Water Reclamation and Reuse	W113 The Big Picture: Reclaimed Water As a Water Resource	
Management of Odors & Air Emissions/ Disinfection	W114 How Does It Work? UV Operations and Maintenance	W213 Disinfection Strategies To Keep Pace with Reuse Trends
GIS and Computer Applications, Instrumentation and Automation		W214 Implementation of Instrumentation and Control in Wastewater Treatment
Small Community and Natural Treatment Systems	W116 WERF: Sustainable Watershed Protection Through Distributed Management of Decentralized Systems	

technical sessions at a glance

Track	Monday, October 20 8:30 am – 12:00 pm	Monday, October 20 1:30 pm – 5:00 pm
Leading Edge Research	1 Fundamentals of Phosphorus Removal	22 AEESP Lecture and Microbial Fuel Cells
Industrial Issues and Treatment Technology/ Microconstituents	2 Industrial Wastewater Biological Nutrient Removal [▲] 3 Developing Technologies [▲]	
Municipal Wastewater Treatment Process	4 Innovative Ideas in Nitrification and Denitrification Systems 5 Whole Plant Issues [▲] 6 Wet Weather Treatment [▲]	23 Wastewater Plant Modeling: Hydraulics and Physical Operations [▲] 24 Don't Forget the Head of the Plant: Preliminary and Primary Treatment [▲] 25 Phosphorus Removal
Facility Operations Including Lab Practices/Disinfection/ Safety and Security/ Odors and Air Emissions	7 Plant Process Optimization and Energy Management	26 Emerging Challenges With Chlorine Disinfection
Residuals & Biosolids Management	8 Advancing Digestion	27 Sludge Minimization/Pretreatment
Collection Systems	9 Collection System Basics: What You Need to Know 10 Odor and Corrosion Control in Collection Systems: From the Pipes to the Plants	28 Private Property...Not So Private Anymore
Watershed Issues: Surface Water Quality and Ecology/ Stormwater/ Groundwater	11 Habitat Assessment and Restoration [▲] 12 Nutrients: Where Are They Now? [▲] 13 Manage Your Stormwater or Get Managed	29 Modeling for Water Quality Management Decision Support 30 Manage "Overflows" To Meet LTCPs
Utility Management	14 Organizational Strategies To Meet Future Opportunities: There's Been Plenty of Talk, Now Walk the Walk	31 Financial Management in Turbulent Times 32 Workforce Professional Development 33 Technology Solutions for Sustainability Strategies
Water Reclamation and Reuse	15 Pathogens and Priority Pollutants in Reclaimed Water	34 Water Reuse Case Studies I 35 Advanced Water Reuse Treatment Technologies
Public Education/ Government Affairs	16 Fees, Finance, and the Future: Water Is Life, and Infrastructure Makes It Happen – PAYS OFF	
Sustainable Water Resources Management/ International Issues/ Small Community and Natural Treatment Systems/Energy Conservation	17 Sustainability Metrics and Measurements 18 Sustainable Water Planning: The Global Perspective 19 Planning for and Recovery from Natural Disasters: Water and Wastewater Infrastructure 20 Performance of Small Community Infrastructure	36 Case Studies for Implementing Water Sustainability 37 Water Environmental Technical and Management Approaches for Reduction of Greenhouse Gas Emissions I 38 Water Scarcity and the Potential Role of Distributed Wastewater Management
GIS and Computer Applications, Instrumentation and Automation	21 Enterprise Asset Management and GIS Applications I	39 SCADA, SCADA Applications, and SCADA Integration I
Innovative Technology Forum/Local Issues/ Young Professionals		40 Innovative Technology Forum I 41 YP – Nutrient Control Strategies [▲] 42 YP – Advanced Biological Process Modeling [▲]

[▲] indicates a half session

Tuesday, October 21 8:30 am – 12:00 pm	Tuesday, October 21 1:30 pm – 5:00 pm
43 Nitrogen Removal 44 Models Applied to Practice	63 Particle Behavior in Biological Processes
45 Industrial Applications of MBBR and MBR Wastewater Technologies 46 Microconstituents: What Is New and What Is Needed?	64 Metals and Mining Industry
47 Nutrient Removal: How Low Can You Get?	65 Virtual Wastewater Treatment: Benefits and Breakthroughs in Process Modeling 66 How To Optimize Your MBBR-IFAS Design
48 Activated Sludge Process Optimization: I Can See Clearly Now the Floc Is Gone 49 U.S. EPA's Performance-Based Method Approach, National Lab Accreditation, and New Methods for Environmental Monitoring 50 Validation of UV Reactors: New Approaches to Consistent UV Design	67 Operation of Biological Phosphorus Removal Systems 68 Lab Practices Detection and Quantitation: New Methods and Perspectives of U.S. EPA's Federal Advisory Committee 69 Management of Odor and Air Emissions
51 Health and Safety in Treatment and Use of Biosolids	70 Think Thick or Dry
52 CMOM: Clean and Assess Conditions	71 Build (or Rehab) It and It Will Come
	72 Standards and Permitting: "Let's Make a Deal" 73 Watershed Management Approaches 74 Groundwater: Contemporary Issues in Contaminants, Remediation Recharge, and Regulation
53 Capital Improvement Programs: Using New Ways To Solve Old Problems	75 Sustainability Strategies and Systems
54 Water Quality Issues in Storage and Aquifer Storage and Recovery 55 Reclaimed Water Treatment Technologies [▲] 56 Wetlands as a Reuse Treatment Technology [▲]	76 Innovative Water Reuse in Industrial and Commercial Applications
57 National and Local Politics: Clean Water Issues Facing Elected Officials	77 Clean Water Policy 2008
58 Sustainability Tools and Modeling 59 Water Environmental Technical and Management Approaches for Reduction of Greenhouse Gas Emissions II [▲] 60 Design Criteria, Modeling, and Experience Gained in Large Wastewater Treatment Plants in Latin America 61 Green Power: Renewable Energy Options for Water and Wastewater Utilities	78 Water, Wastewater, and Environmental Challenges Facing Small Island Nations: Examples and Lessons Learned From Puerto Rico and Barbados
	79 Enterprise Asset Management and GIS Applications II
62 Wastewater Conveyance and Overflows: Pipes, Pumps, and Tunnels	80 Planning and Implementation of Plant and Receiving Waters Upgrades: MWRDGC Experience [▲] 81 Chicago Area Waterway Studies [▲]

Wednesday, October 22 3:30 am – 12:00 pm	Wednesday, October 22 1:30 pm – 5:00 pm
82 Membrane Processes 83 Sidestream and High-Strength Treatment	101 Microconstituent Interactions in Biological Processes
84 Optimization of Industrial Wastewater Treatment Plant Operations▲ 85 Microconstituents in the Aqueous Environment: What Do We Know and What Does It Mean?	102 Food, Beverage, and Agricultural Waste Treatment▲
86 Secondary Treatment: Optimization and Innovation	103 Best of the IWA Large Plant Conference
87 Operation of Biological Nitrogen Removal Systems 88 Innovative Lab Methods: Microconstituents, Organic Compounds, and Nanomaterials	104 Disinfection Compliance: Make It Work! 105 Safety and Security Priority Challenges at Wastewater Treatment Facilities
89 Co-Digestion: You're Adding What to Your Digester?▲	106 Greenhouse Gases and Sustainability
90 Think Big! Tunnels and CSO/SSO Controls	107 Pump Stations: Keeping Your Assets High and Dry
91 Bacteria: An Infectious Topic▲ 92 Innovations in Stormwater Management▲	108 TMDLs: The Issues and the Answers▲ 109 Effective Watershed Planning▲
93 Asset Management: Now That We Know What We Have, How Do We Take Care of It? 94 Is the Baby Boom a Bust for Your Organization? Preparing for Future Personnel Challenges	110 Asset Management: There Are Many Routes to the Asset Management Goal
	111 Water Reuse Case Studies II
95 Protecting Our Nation's Most Critical Asset: U.S. EPA's Collaborative Approach to Water/Wastewater Resiliency and Security	112 Addressing Water Quality Standards in Long-Term Control Plans, or How To Stop Worrying and Love the UAA Process 113 Technology and Understanding: Projects That Put the Pieces Together
96 Global Sanitation: Current Situation and Innovations for the Future▲ 97 Design Tools for Decentralized Infrastructure 98 Energy Conservation and Management for Water and Wastewater Facilities	
99 SCADA, SCADA Applications, and SCADA Integration II▲	
100 Wastewater Treatment Innovations on the Midwest	114 Utility and Plant Planning 115 Innovative Technology Forum II

▲ indicates a half session