

bo_Providers.Nam	BeginDate	EndDate	CourseNumber	dbo_Courses.Name	ContactMinutes	TrainingContent	CountyText
IWPC Annual Conference	11-Feb-19	11-Feb-19	13687	Understanding the Sensing Capabilities of Microbial Electrochemical Cells	30	This talk will focus on the leveraging the current produced by electro-active biofilms to monitor and improve the performance of aerobic and anaerobic wastewater treatment technologies.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13688	Installation and performance review of the first installed Algae Based Wastewater Treatment Facility	30	Illinois permitted its first Algae based wastewater treatment facility	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13689	Digital Water: Treatment Plant Operational Improve	30	This presentation will outline some of the automation, data management and machine learning techniques being developed to remove those repetitive tasks	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13690	Emerging Water Reuse Frameworks for Military Susta	30	an overview of water reuse frameworks and technologies being evaluated by the US Army Engineer Research and Development Center	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13691	Membrane Aerated Biofilm Reactors: A Pilot Scale Study	30	Membrane Aerated Biofilm Reactors (MABRs) hold promise to revolutionize the delivery of oxygen for biological treatment in Water Resource Recovery Facilities (WRRFs).	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13692	Introducing the First Full-Scale Membrane Aerated Biofilm Reactor	30	Yorkville-Bristol Sanitary District (YBSD) is subject to complying with a Total Phosphorus (TP) effluent limit compliance schedule under their National Pollutant Discharge Elimination System (NPDES) permit.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13693	Young Professionals	60	The Value of Participation in Professional Societies, Mentorship, Panel Discussion: Tips for Your Future Career	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13693	Young Professionals	60	Professional Societies, Mentorship, Panel Discussion	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13694	Mitigating the Unintentional Consequences of Biological Phosphorus Removal at MWRD, Colorado	30	Waste sludge from biological phosphorus removal systems has been associated with negative impacts to anaerobic solids digestion and dewatering processes.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13695	Energy Efficiency and Nutrient Reduction Through Process Optimization in Aerobic Digester	30	This abstract explains the basis of Aerobic Digestion Process and emphasis on how to optimize energy, reduce nutrient recycle and chemical consumptions in design and operation.	Sangamon

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IWPC Annual Conference	11-Feb-19	11-Feb-19	13696	A Survey of WRRF Biosolids: Identifying the Parameters Affecting Dewatering from Bio-P and THP	30	Improving the dewatered cake solids of biosolids at water resource recovery facilities (WRRF) is important in order to control costs of fuel for hauling or incineration, tipping fees for landfilling, or real estate and structures dedicated to onsite storage.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13697	A Story of Biosolids Autocatalytic Pyrolysis: Process Scalability and Biochar Applications	30	Improving on-site energy generation and recovering value-added products are common goals for sustainable used water reclamation.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13698	Marketing of the Metropolitan Water Reclamation District of Greater Chicago's EQ Compost	30	This talk will provide an overview of current marketing efforts at the MWRD for EQ Compost, present the elements of the winning marketing plan developed by the Loyola University students, including target markets and outreach strategies, and discuss how those marketing elements will be incorporated into future efforts.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13699	Capture Phosphate by Designer Biochars Produced from Biosolids: A Win-Win Strategy	30	This presentation is to illustrate designer biochars that can effectively adsorb dissolved phosphorus. The designer biochars were generated from biomass pre-treated with lime sludge collected from water treatment plants.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13700	Sustainability	60	Introduction Roundtable	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13854	Laboratory Regulatory Update	30	Regulatory Updates concerning laboratories	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13855	The Importance of Proper Sample Collection	30	The importance of proper data collection	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13856	Ammonia Measurement by Ion Selective Electrode	30	This presentation will focus on how ammonia meters actually work and how to get more accurate and reliable ammonia readings.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13857	Understanding Oil and Grease	30	We will discuss the two most common variations, liquid-liquid extraction and solid phase extraction, as well as the advantages and disadvantages of each method.	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13858	Quality Assurance in the Lab	30	Quality Assurance is obtained by implementing the quality controls necessary to provide reliable data.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13859	Cost-effective Combined Sewer Overflow Long-term C	30	Case study for the revision of a Combined Sewer Overflow (CSO) Long-Term Control Plan (LTCP) for the City of Monmouth, Illinois	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13860	Intelligent Odor Warning System at an MWRD Reservo	30	We will present our work on using advanced analytics combined with artificial intelligence for developing an advanced warning system for odors at the Metropolitan Water Reclamation District of Greater Chicago's (MWRDGC) Thornton Composite Reservoir (TCR).	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13862	Biological High-Rate Clarification with use of Existing SBR	30	The City of McHenry, IL recently installed a Biological High-Rate Clarifier system to treat wet weather flows up to 10 MGD for BOD and TSS removal.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13863	Hurricane Harvey: Damage and Recovery at the Conro	30	The Conroe Southwest Regional Wastewater Treatment Plant return to operation	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13864	Balancing operations, reliability and costs needed to achieve phosphorus removal	30	The presentation will include case studies that have implemented combinations of technologies and operational measures to achieve consistent performance.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13865	Phosphorus Influent Reduction Measures	30	Water resources recovery facilities (WRRFs) are seeking cost effective approaches to reduce their total phosphorus effluent concentrations.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13866	Doubling Down on Phosphorus	30	The Madison Metropolitan Sewerage District (MMSD) installed Ostara's nutrient recovery system including Pearl and WASSTRIP at their Nine Springs plant in 2013.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13867	Tons of Green: Algae-based Nutrient Recovery	30	Nutrient-rich surface waters across our region teem with uncontrolled algae. However, algae can also be harnessed to drive a green economic and environmental future via nutrient recovery.	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13868	2018 US EPA Pretreatment Training Highlights and U	30	This presentation is essentially a summary of the 2-day training which includes a general overview of the Pretreatment program, regulations and standard	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13869	A PCI Tutorial: Everything's Going to Be All Right	30	Is your facility prepared for a U.S. EPA Pretreatment Compliance Inspection (PCI)?	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13870	Conducting Pretreatment Site Inspections	30	This talk's focus will present guidance from the 2017 "USEPA Industrial User Inspection and Sampling Manual for POTWs", and suggestions for key questions to ask of several industrial user types for classification and confirmation of compliance.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13871	Upgrades to the Secondary Treatment System to Incr	30	Walter E. Deuchler Associates, Inc. collaborated with Fox Metro Water Reclamation District to improve the single stage nitrification activated sludge process to increase plant efficiency and prepare the process for future conversion to biological phosphorus removal.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13872	CHP and Solar Systems in Wastewater Treatment	30	The City of Lafayette, Indiana, through their program Lafayette Renew, has embarked on a mission to reduce energy consumption in their wastewater treatment plant.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13873	Customizing Your Energy Mix: Can Solar Improve Pla	30	This session is designed to provide plant operators with a case study containing resources and information needed to understand what solar options are available in Illinois, the impact on financial and sustainability goals, and notable challenges when pursuing solar energy.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13874	Energy and Cost Saving Opportunities for Wastewate	30	This session will focus on energy-saving opportunities at wastewater facilities, highlighting case examples from the Illinois EPA's Wastewater Treatment Plant Assessment Program	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13875	Choosing the Right Blower Technology	30	For several decades, lobe and multistage blowers had been the tried and true blower technologies for wastewater treatment plants, and until recently there had been no major developments in this portion of the wastewater treatment process.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13876	Managing the Migration of Outdated Programmable Lo	30	An engineered migration can improve process system operation, energy efficiency, and improve information available to operators.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13877	GreenBush CSO Tank- Electrical Design Innovation	30	The Greenbush CSO Storage Tank project provided a spark to transform the city's underutilized area and serve as a spring board for the redevelopment of the site.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13878	Power in Planning - Electrical Upgrades at WSSC's	30	This paper will look at the key electrical elements that should be considered when implementing any infrastructure improvement and will present a case study discussing the challenges during the Washington Suburban Sanitary Commission's (WSSC) Piscataway WRRF Electrical Upgrades Project.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13879	Thinking Differently: A Synergistic Solution for N	30	The thoughtful approach presented in this case study is useful to municipalities as it shows how nutrient removal improvements can be used as an opportunity to simultaneously reduce operational costs through plant-wide energy savings, address other operational challenges, and supplement the capital costs for the improvements with energy efficiency grant funding and public-private partnership.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13880	S2EBPR Configuration for Phosphorus Removal at DuP	30	The biological process implemented and Knollwood can be configured for S2EBPR SSR, or an AO process. Configuration and performance data will be presented from the startup and operation.	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13882	Green Infrastructure and Its Economic Impacts	30	The goal of this presentation is to provide background on common GI installations and practices, assess how effective they are, and discuss the common challenges that municipalities face when incorporating GI. Tuesday,	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13883	Enabling Fully Integrated Wastewater Resource Reco	30	Increasing pressure on freshwater resources for communities and industries, as well as demand for the recovery of additional value from generated waste streams benefiting the bottom-lines of cities and manufacturers, requires the advent of new biological technologies capable of performing those tasks at unprecedented levels.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13884	Industrial Pretreatment Essentials-Identifying Ind	30	wastewater treatment facilities with and without pretreatment programs understand how to locate and identify industrial and commercial users	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13885	Achieving Stable EBPR at Gary Sanitary District	30	The Gary Sanitary District operates a 60 MGD design average daily flow WWTP with an effluent total phosphorus limit that is based on a percentage removal of the influent phosphorus.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13886	Startup, Optimization, and Operational Results fro	30	This presentation will provide 12 months of startup data related to process troubleshooting, controls optimization, and performance summary from a 189 mgd facility in Texas.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13887	A Shortcut Nitrogen Removal Process for a Wisconsi	30	The City of Fond du Lac, Wisconsin Regional Wastewater Treatment Facility is a 9.84 MGD (design average) conventional activated sludge plant.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13888	Fermenters and Sidestream Phosphorus Treatment: Process Design and Practical Considerations	30	The Fox River Water Reclamation District (FRWRD) in Elgin, IL owns and operates three water reclamation facilities, Several configurations for primary sludge fermentation were evaluated during preliminary design as a means of supplementing readily biodegradable organics.	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13889	Implementation of the Infiltration / Inflow Contro	30	This presentation will focus on the requirements and progress made in the Short Term Program of the Metropolitan Water Reclamation District of Greater Chicago's Infiltration / Inflow Control Program (IICP).	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13890	Calumet Tunnel and Reservoir Plan History and Impa	30	The presentation will describe the Calumet TARP system and its impact on the community, including reductions in CSOs and flooding protection for over 182,000 structures within its service area.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13891	Keep Out the Rain - Kansas City's Private I/I Prog	30	The Private I&I Reduction Program taking place in Kansas City, Missouri includes removing rainwater from the Sanitary System.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13892	Creating Efficiencies Using Mobile GIS and Operati	30	This presentation will focus on several small to mid-sized wastewater utilities and their approach to using a GIS to maintain their wastewater infrastructure assets and aid in their various reporting activities.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13893	Reducing Collection System O&M Costs by Eliminatin	30	This presentation will discuss the LCCA evaluation and the design and construction challenges of the selected project.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13894	Under the River and Through the Pipelines	30	This case study explores the major challenges faced during the design of a 66-inch interceptor for the City of Fort Worth within a city owned golf course.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13895	Do You Need a Computerized Maintenance Mangement S	30	See what UCSD does to make this system work, along with some of the many intangibles the District has to work around, and well as the always interesting lessons learned the hard way.	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13896	Let the Water Flow: Startup of a New Aerated Grit	30	This presentation will discuss the lessons learned from the startup of the 720 MGD project.	Sangamon

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IWPC Annual Conference	12-Feb-19	12-Feb-19	13897	Chemical Phosphorus Removal - Design and Operation	30	This presentation will provide an overview of design considerations for Chem-P systems at Wastewater Treatment Facilities, including regulatory requirements, chemical options, equipment sizing, and chemical injection (discharge) point options.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13898	Process Monitoring and Control for Biological Phos	30	The presentation will address waste characterization for design, flexibility of process design, monitoring and control.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13899	Boosting Conservation and Efficiency for Water and	30	In this paper, we compare VFD technology with manual inlet valve throttling, present estimated energy and cost savings, discuss ancillary equipment that is required to successful retrofit existing aeration blowers to accommodate VFDs, and review a case study on that demonstrates successful application of advanced VFD technology at the Newnan Utilities Wahoo Creek Facility	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13900	The Real Science Behind Polymer Activation	30	This presentation illustrates how to maximize the value of polymer by understanding fluid dynamics and polymer chemistry. It includes different mixing technologies on the effectiveness of polymer solution.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13901	An Introduction to WaterOperator.org	30	This presentation will provide an overview of the resources available for wastewater operators, and explain how to get the most benefit from the website.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13902	OSHA Excavation Standard 101 & The Rules for First	120	This program will provide an overview of the rules contained within OSHA Excavation Standard 29 CFR 1926.650-651. This will include protective systems, how they work and what manufacturers require.	Sangamon

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IWPC Annual Conference	13-Feb-19	13-Feb-19	13903	Intensification: When does it make cents or sense?	30	This presentation will review case studies of different intensification technologies and will discuss the specific advantages (when compared to conventional treatment) that led each agency to pursue or	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13904	Selection of the appropriate SBR process within ex	30	Ensuring that treatment plants are continuing to meet evolving effluent standards can be challenging and costly. The Evansville Water & Sewer Utility's	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13905	BAF vs. CAS: An Evaluation of Biological Aerated F	30	(EWSU) West WWTP utilizes a unique combination of conventional activated sludge (CAS) and biological aerated	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13906	Odor Control Studies at Egan and O'Brien Water Rec	30	Odor control studies at the Metropolitan Water Reclamation District Egan and O'Brien Water Reclamation Plants are being completed - including conceptual design of odor treatment facilities.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13907	BioWin modeling to Develop BNR Process Configurati	30	This presentation will discuss how BioWin was used to finalize the process configuration and reactor size. Additionally, steady-state simulation results for the final design will be presented.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13908	Illinois Water Quality Standards Update	60	providing an update on water quality standards development in Illinois and will be available for questions and discussion.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13909	Illinois NonPoint Source Program Update	30	Chris is a project manager in IEPA's Nonpoint Source Unit and will provide an update on watershed management and nonpoint source program initiatives throughout the state.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13910	Illinois TMDL Program Update	30	Abel is the Supervisor of IEPA's Watershed Management Planning Unit and will provide an update on IEPA's TMDL development process, initiative and progress.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13911	Chloride Variance: Time-Limited Water Quality Stan	30	Updates on water quality standards	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13912	Illinois EPA Permits Section Update	30	Updates on permits	Sangamon

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IWPC Annual Conference	13-Feb-19	13-Feb-19	13913	Illinois MS4 Permit Implementation Round Table	30	Dan will facilitate a round table discussion on Municipal Separate Storm Sewer System (MS4) program implementation in Illinois.	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13914	Active Watershed Groups in Illinois	30	A talk on watershed groups in Illinois	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13915	Watershed Implementation: Streambank Restoration 2	60	A Ted Talk on watershed implementation	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13916	Nutrient Assessment Reduction Plan (NARP) Update	30	Panel Discussion	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13917	Watershed Management Open Forum	30	Open Forum (Q&A)	Sangamon
IWPC Annual Conference	14-Feb-19	14-Feb-19	13918	Operator Review Class for Class 3 & 4	90	Review for Class 3 & 4 Certification	Sangamon
IWPC Annual Conference	15-Feb-19	15-Feb-19	13919	Operator Review Class for Class 1 & 2	90	Review for Class 1 & 2 Certification	Sangamon
IWPC Annual Conference	13-Feb-19	13-Feb-19	13956	Ultraviolet Disinfection: Tips, Tricks and Considerations	30	A case study of a current design will be provided, which shows historical plant data analyzed, and results of a collimated beam test and considerations to determine system sizing.	Sangamon
IWPC Annual Conference	11-Feb-19	11-Feb-19	13957	Laboratory Workshop 2019 IWPC	180	Hands on laboratory workshop	Sangamon
IWPC Annual Conference	12-Feb-19	12-Feb-19	13958	Safety Workshop 2019 IWPC	60	Trenching & Shoring Safety	Sangamon