EXHIBITOR CALL for ABSTRACTS

WEF Wants Exhibitor Abstracts Now!

Help us educate WEFTEC participants while gaining additional exposure for your company by presenting technical information at WEFTEC 2019. There are several different formats available to select from, all of which are only available to exhibitors: Mobile Sessions, Stormwater Pavilion Sessions, Technical Sessions and an Innovation Forum. Each one is briefly described below followed by separate sections with more details.

The Stormwater Pavilion Case Study sessions will be in the Stormwater Pavilion Theater and are open to all stormwater exhibitors.

The Manufacturers’ Innovative Technology Forum is in its third year. It offers attendees technical information on technology, products, or systems which are new to the wastewater market or “now ready for prime time”. Take advantage of this platform to showcase the many years of hard work to research and pilot products, now ready to take off!

The Mobile Sessions consistently rate high in attendee satisfaction. These sessions, which are focused around specific topics, allow WEF to bring attendees to selected booths to hear and see technical, educational presentations by exhibitor experts. There is no better way to share your technical knowledge to a group of interested participants.

NEW for 2019- Technical Sessions! After reviewing the submitted abstracts, the Program Committee identified a select number of sessions where additional presentations from exhibitors would benefit the overall experience of the participants and complete the education they are trying to impart. Please carefully read the description for each one and make sure your product or service is relevant to the subject of the session.

The Call for Exhibitor Abstracts will close on April 18 at 11:59pm Eastern for review and selection by members of the Program Committee. Selection criteria and details are available at the end of this document.

Stormwater Pavilion Case Study
These sessions are open to all stormwater exhibitors, not just those located in the Stormwater Pavilion. Presentations are 15 minutes in length and will describe case studies related to a company’s product(s). Please submit a short abstract describing the following:

- Describe your company’s product, practice, or service and how it relates to stormwater management.
- Describe the case study or studies to be discussed during the presentation.
- How does your company’s product, practice, or service fill a need in the stormwater sector?
- How is your company’s product, practice, or service unique?
- What are some advantages and potential challenges to using this product, practice, or service?
Intelligent Equipment in Wastewater: Manufacturers’ Innovative Technology Forum

This session is open to any exhibitor who can address the subject matter.

This technical session will feature only Equipment Manufacturers as speakers, introducing the newest technology they have to offer. Typically, there is a significant time period from technology inception through validation and promotion at WEFTEC. The purpose of this forum is to introduce the market to recently developed technologies that are in the early adoption phase and that may not yet be known to the wastewater community as new, high-value processes. The technology presented must have completed thorough R&D development, established full-scale engineering requirements and at the least, have rigorous piloting data for presentation. The manufacturer cannot have more than 5 full scale installations. The goal of the session is to introduce attendees to the newest, most innovative technology that is just now entering the market and that is NOW “Ready for Prime Time”.

This year’s session is focused on the wide array of Intelligent Equipment in the Wastewater Industry, such as process equipment, pumps, instrumentation and controls. The product can be used for anything that pushes the boundaries of intelligence and artificial intelligence that furthers the ability to convey, identify and treat storm and wastewaters.

Submissions must highlight a technology that is new to the wastewater market with 5 or fewer full-scale installations. If no full-scale installations exist, then substantial pilot data would need to be presented. The process presented must be ready to go to market with design and engineering accomplished. The technology must be unique to the market in its application, use, and value provided. It cannot simply be an upgrade to an existing technology.

Scoring of the submitted abstracts will be based on the following criteria, which is unique to this Forum (and different than the criteria used to evaluate abstracts for other submission types):

**Unique.** The technology is innovative, new, and not in use today in another form by another manufacturer. New value proposition for the market is demonstrated.

**Applicability to a market need.** A benefit to a significant market need must be demonstrated. The highest scores will be given for the technology with the widest application.

**Demonstrated readiness for the market.** Data must be included that demonstrates the readiness for market adoption. No more than 5 full scale plants in operation are allowed by the time of presentation at WEFTEC. Pilot data is required in lieu of full-scale performance. Highest score is based on validation of readiness for market through installations, design, engineering, and clear definition of application.

**Demonstrated value.** Clear demonstration of the value to the market must be shown. The highest scores will be given to technology that can document the value gained by use of the processes in terms of performance, capital/construction/O&M cost savings, footprint, ease of operation, and/or energy savings.

**Content and Clarity.** Quality of the abstract will be scored in terms of organization, graphics, message, demonstrated performance, and demonstrated value.
**Mobile Sessions**

*These sessions are open to any exhibitor who can address the subject matter.*

Please submit a short description addressing the following criteria while at the same time, addressing the specific mobile session you are applying to:

- An overview description of the technology and/or service that will be highlighted in the mobile session
- How the product fits in to the mobile session topic and adds value
- Product, technology, or service characteristics and uses
- Key design issues
- Typical level of automation / operator attention required
- Start-up and shutdown sequences (if applicable)
- Any required ancillary system

The exhibitor should ensure they are prepared to have up to 25 people in their booth at one time.

**Mobile Session Topics**

**Aeration Blowers**

This mobile session will consist of visits to several blower manufacturers with a range of technologies including positive displacement, multi-stage centrifugal, and geared and gearless single-stage centrifugal blowers. Each manufacturer will be expected to provide a short presentation of their various products followed by a short question and answer period.

**Aeration Diffusers**

Take a walk of the exhibit floor and visit diffuser booths with a team of experts to learn about the variety of technological options available on the market. The session will cover various diffuser technologies (e.g., coarse-bubble, fine-bubble, etc.) and a variety of geometries and materials will be discussed.

**Dewatering Technologies**

The purpose of this tour is to allow attendees to compare dewatering technologies in a technical manner. The attendee will learn the details of the technology and how it can be applied to their treatment process needs and be able to see some of the pieces of equipment. This should be a technical presentation and the physical principles of how the equipment works and the flow pattern should be discussed as well as what the operator should do to operate it.

**Food and Beverage**

This mobile session will be dedicated to technologies used in the food & beverage industry for treatment of either wastewater from the production of various food and beverage products or for treatment of process water used in the production of such products.

In particular, we will highlight technologies that are innovative or that are focused on energy or resource recovery, including reuse applications in the food & beverage industry due to a growing emphasis on One Water and the Water-Energy-Food Nexus as global water issues.

**FUNdamentals: ABCs of BNR- From Conventional to the Next Frontier**

This mobile session is a companion session to the technical session, “FUNdamentals: ABCs of BNR- from Conventional to the Next Frontier” It will allow participants to visit different BNR technologies on the exhibit floor after they have learned about them in the technical session. Anyone is welcome, even if you didn’t attend the technical session. The goal of the mobile session is to provide an overview and introduction to biological nutrient removal technologies. You will journey around the exhibition floor to meet with exhibitors and see BNR equipment firsthand. Technologies covered will be: conventional BNR, MABR, aerobic granular activated sludge, short-cut nitrogen removal, and automated control strategies.
IoT (Internet of Things): Here and Now
This mobile session will highlight IoT/IoT devices, sensors, and communications that are available here and now! The end users can leverage these to increase operation awareness and data collection. Find out how on this mobile session. Focus will also be on ready-to-display and collect autonomous devices and sensors that can be used for immediate impact.

Manhole Rehabilitation Technologies
Cement vs Geopolymer vs Polyurethane vs Polyurea vs Epoxy. Coating versus Lining. Leakage elimination vs Corrosion resistance. We are faced with a seemingly infinite number of design bases, all using completely different material characteristics. The material characteristics, design calculations, bonding requirements/expectations, ability to resist H2S-based corrosion, installation constraints, cost, longevity, and surface preparation requirements vary widely and are key issues when determining which technologies to apply to manholes. Five top manhole rehabilitation technologies are presented together to allow engineers, contractors, and owners to understand the application of each approach.

None Shall Pass: Protecting Stormwater Inlets and Preventing Pollution
Increasingly stringent regulatory limits on trash and floatables in stormwater, and recognition of the adverse impacts of these materials on MS4 and combined sewer systems, is leading many communities to consider and implement stormwater inlet protection systems. Managers are challenged to evaluate inlet protection systems for durability, cost, ease of maintenance, aesthetic, and public safety/acceptability concerns, as well as their suitability for meeting regulatory requirements. This session invites manufacturers of inlet protection systems to make presentations on the design, materials, applications, and costs of these systems. There is strong interest in case studies and examples of how inlet protection system designs and operation address specific regulatory requirements, as well as specific and preferably peer-reviewed or cooperative research data on performance, specific maintenance needs (i.e. labor and equipment), and durability of these systems in the field. Examples of innovative design, installation or operation and maintenance strategies, and data on capital and operation/maintenance costs, are encouraged.

Nutrient Analyzers and Sensors
This mobile session seeks to help interested people find the right instruments by discussing section criteria for nutrient sensors and analyzers. Topics like application specifics, quality control, cost of ownership, and installation requirements will be discussed. The session includes an introduction, and visits to major instrument suppliers with short technical debriefs. The visits are split into a vendor presentation and a Q&A session.

Petroleum Refinery Wastewater Treatment Equipment
This mobile session follows a Technical Session and is a great way to hear from the technology suppliers that are often referenced in the session. The mobile session will focus on equipment that pertains to the refinery or petrochemical wastewater treatment. Equipment may include pre- and primary wastewater treatment unit operations: API separators, CPI separators, Induced gas flotation units, dissolved gas flotation units. It may also include other unit operations used in this industry for wastewater treatment. It may include control and monitoring items as well, such as online analytical devices for real-time system controls. This is a can’t-miss session in terms of learning about the latest and greatest as well as the basics.

Primary and Primary Effluent Filtration
This mobile session will include visits to manufacturers of alternatives to primary treatment as well as primary effluent filtration. Equipment that will be showcased includes rotating belt filters, cloth disk filters, and compressible media filters.
Produced Water Treatment Technologies
The session will address different aspects of produced water treatment. Different traditional and innovative technologies and chemicals for produced water treatment will be discussed and presented. The technologies and chemical use discussed in the session will be applicable to a wide range of upstream oil and gas issues such as US fracking, heavy oil, and conventional oil markets. Some of the technologies will be applicable to different stages of produced water treatment such as primary, secondary and tertiary treatment. The specific but innovative technologies presented in this session will include (but will not be limited to i) primary produced water treatment equipment such as hydrocyclone, API separator, corrugated plate separator (CPS), skimmer, etc.; ii) secondary produced water treatment equipment such as dissolved gas flotation (DGF), induced gas flotation (IGF), compact flotation unit (CFU), etc. as well as iii) tertiary produced water equipment such as walnut shell filter (WSF), coalescing filter, cartridge filter, microfiltration (MF), ultrafiltration (UF), etc.

Tertiary Membranes for Advanced Treatment
This mobile session will visit three to four membrane vendors offering a variety of products for advanced tertiary treatment. Technologies considered will include hollow-fiber and flat-plate ultra-filtration as well as nano reverse osmosis (RO) technologies. Emerging membrane technologies such as ceramic membranes will also be considered.

Spotlight on Treatment Equipment for Water Reuse
Hands-on. Informative. Innovative. Following an earlier technical session, participants will have a hands-on experience hearing from industry experts about how their direct and indirect potable reuse treatment technologies featured on the exhibit hall floor have been applied to meet water reuse challenges. This mobile session is for professionals interested in obtaining a practical understanding of cutting-edge water reuse technologies.

UV Disinfection: Can You See the Light?
The purpose of this UV mobile disinfection session is to give participants the opportunity to gain a better understanding of the type of UV disinfection technologies that are commercially available and can be used to disinfect effluents from wastewater treatment plants. The session will begin with a brief introductory presentation by the session moderator. During this presentation, session participants will be provided with a baseline of information to make the mobile session as effective as possible. Afterwards, the mobile session will depart to visit numerous exhibitor booths for fast-paced technical presentations on UV disinfection.

Wastewater 101
Does the exhibition floor have you feeling lost or overwhelmed? Are you not sure where to start? Let us guide you through the exhibition floor as we go with the flow of a wastewater treatment facility! This session is designed to engage public officials, young professionals, students, and people new to the industry with an introduction to wastewater treatment processes and hot-topics. Participants will begin with a brief overview of a hypothetical wastewater treatment plant, which will include a dynamic video. Attendees will then journey around the exhibition floor to meet with exhibitors and see equipment firsthand. The tour will cover regulations; preliminary, primary, secondary, and effluent treatment; energy conservation and recovery; and resource recovery.
Technical Sessions

This type of submission is open to any exhibitor who can address the subject matter. The topics are listed below along with the specifics of the session. Please read carefully.

Topic One: Water Challenges in the Electric Power Industry

This is not meant to be a sales-pitch and should focus instead on case studies and research. Please make sure your submission does this as well!

This session will present the latest developments in equipment design and technology application for water management in the electric power industry. Topics may include treatment of wastewater produced by flue gas desulfurization, coal ash management, or other power plant wastes; low level removal of nutrients, metals and selenium, water recycle and minimization, and other challenges faced by the electric power industry. Presentations should include discussions of case studies and ongoing technology development research and will last between 10-15 minutes. The session will include time for questions and answers as well.

Topic Two: Stormwater

Exhibitors will have an opportunity to present their products, services, and technology in a quick format to attendees as part of a Technical Session. Presentations will be a maximum of 2-3 minutes. Final duration of presentations will be determined based on the number of submissions and will be strictly timed. Any visuals will need to be provided in advance to the program committee to insert into a master presentation. Only those products that are specifically intended to be used in a stormwater application will be considered. The audience will be stormwater professionals.

Exhibitors should be prepared to address the following:

- What the product is
- How it would be used
- The most applicable installation
- What makes it special

Topic Three: Competitive Design of Dewatering Facilities

This is a “hands-on” session in which the attendees will learn how to design a dewatering technology and how to compare different technologies to determine which is best for their particular application. The Committee is seeking to have three technologies represented: a belt filter press, a centrifuge, and a screw press. Each will be given approximately 10-15 minutes to present information on their specific technology to a small group. The company presenting will also give a design example (that has been created with help from the Program Committee) with which the group will design the units. Each group will then present their design, including cost, energy consumption, polymer consumption and other considerations that go into choosing a technology.
Exhibitor Presentation Requirements and Guidelines

Formatting:

• Abstracts should be approximately 300-500 words in length.
• Images must be uploaded separately.
• Type the presentation title, authors, and keywords into individual fields, separate from the body of the abstract.
• Copy and paste the body of your abstract into the online system.
• The online system allows for some basic formatting (bold, underline, italics) but will automatically remove formatting such as line spacing, font type and size, and margins.
• Do not attempt to copy and paste from a PDF into the system or include any headers or footers in your document, as the formatting will not translate into the online system.
• Do not copy and paste a sales brochure.

Content:

• Clearly define the objectives, status, methodology, findings, and significance of the investigation or study related to the topic you are submitting to.
• Your abstract and presentation should not be a sales pitch of your product, but instead describe how you will provide a learning opportunity for attendees.
• Present the science behind the technology, product, or service.
• Do not use content that comes directly from a sales brochure.

General Requirements:

• There is no limit to the number of abstracts that may be submitted.
• Each abstract should be submitted one time only. Duplicate abstracts will be discounted.
• WEF Membership is not a requirement for submission and/or presentation.
• To submit to the Exhibitor Call for Abstracts, you must be an employee of a company exhibiting at WEFTEC 2019.
• All participants must register for WEFTEC 2019 and are responsible for their travel and lodging expenses as well as conference registration fees and booth fees.
• Because these submissions are open only to exhibitors, booth space must be secured by June 1, or the submission will be considered invalid and removed from the session.
• The official language of WEFTEC is English.
CRITERIA FOR SELECTION

This is used for ALL session formats mentioned above except the Manufacturers’ Innovative Technology Forum.

Overall, abstracts will be reviewed based on their technical merit, educational components, and applicability to the specific topic to which they have been submitted. Specifically, each one is scored on the following criteria:

Applicability
The abstract/presentation should present ideas, concepts, or lessons learned that are transferable to other facilities and situations.

Consequences
The abstract and presentation should address the consequences of the issue or project presented. The consequences, both intended and unintended, could include environmental, economic, and social impacts. Both positive and negative results are encouraged.

Relevance
The topic presented in the abstract should appeal to the WEFTEC audience, presenting breakthrough technologies, new concepts, novel applications of concepts, original ideas, new twists, hot topics, or application of fundamental techniques to today’s problems. Further, abstracts should be relevant to the specific topic under which they were submitted.

Content, Clarity, and Quality
Authors should prepare clear, concise abstracts and presentations. The quality and content of abstracts and presentations are considered indicative of the presentation at WEFTEC 2019.

Criteria for Exclusion
WEF reserves the right to exclude presentations that have been shown to be a sales pitch, highly commercial in nature, or negative about competitive products based on participant feedback from prior WEF conferences. WEF promotes the education of participants in these sessions and welcomes the submissions from exhibitors who make participants comfortable and provide them with the education we are hoping for.