

HEDRICK ASSOCIATES OF GRAND RAPIDS SUSTAINABLE HEAT TRANSFER DESIGN + PRODUCT SHOW 2018

CEUs
AVAILABLE

Performance with disregard to sustainability. Sustainability with disregard to performance. Neither scenario provides the necessary balance of reliable performance with reduced impact on operational costs or the surrounding environment.

Too many times the pendulum swings too far in one direction, as the focus of engineered system designs are impulsively driven by short-term business initiatives, consumer demands, and consumer perceptions. However, achieving balance between sound design and sustainable performance provides the best long-term return on investment for facility managers and business owners. Higher performing and more reliable products may cost more, but the expectation is that they will last longer. More effective control technologies and a new look at equipment size or configuration selections can offer the benefits of operational cost reductions and lesser environmental impact.

That is the objective of the sustainability without performance compromise concept, and the focus of this seminar series brought to you by Hedrick Associates. We will focus on a variety of hydronic products, control technologies, selection techniques, and configuration options that provide results that meet the performance expectations of facility managers, yet also achieves the reduced cost of operation and environmental impact goals of those tasked with business sustainability.

SEMINAR 1 SEPT. 11, 2018

Crowne Plaza
925 S. Creyts Road,
Lansing, Michigan
48917

SEMINAR 2 SEPT. 12, 2018

Hagerty Center
715 E Front Street,
Traverse City, Michigan
49686

SEMINAR 3 SEPT. 13, 2018

Holiday Inn
West 2747 South 11th
Street, Kalamazoo,
Michigan 49735

SEMINAR 4 SEPT. 14, 2018

Thousand Oaks
4100 Thousand Oaks
Drive NE, Grand
Rapids, Michigan
49686

ALL SEMINARS SCHEDULE

Registration @ 9:00am
/ Lunch & Product
Demos at 12:00pm /
Concludes @ 3:30pm



Participating in our seminar and product show are the following manufacturers:

- › **Armstrong Fluid Technologies** – An industry leading manufacturer of hydronic pumps and accessories.
- › **Flow-Tech** – A technology leader in chemical-free water treatment for process water.
- › **Lakos** – An industry leader in water filtration systems for process water.
- › **Weil-McLain** – An industry leader in commercial and residential boiler products.
- › **SPX/Marley Cooling Technologies** – An industry leader in evaporative cooling products.

Breakout Sessions:

This seminar and product show will consist of morning breakout sessions in two hour time slots. Attendees will have the option of choosing two.

Following the second breakout slot, lunch will be served and there will be opportunity to see product demos.

After lunch, there will be four more breakout session choices in another two hour time slot, which will conclude the seminar portion of the event. Demonstrations will continue for the next hour, at which time the event will end.

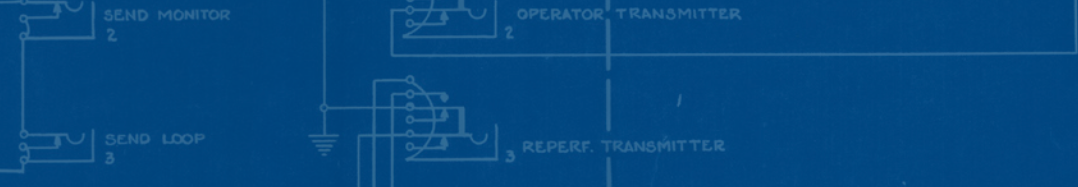


Visit us at www.lakos.com



Breakout: Benefits of Effective Filtration

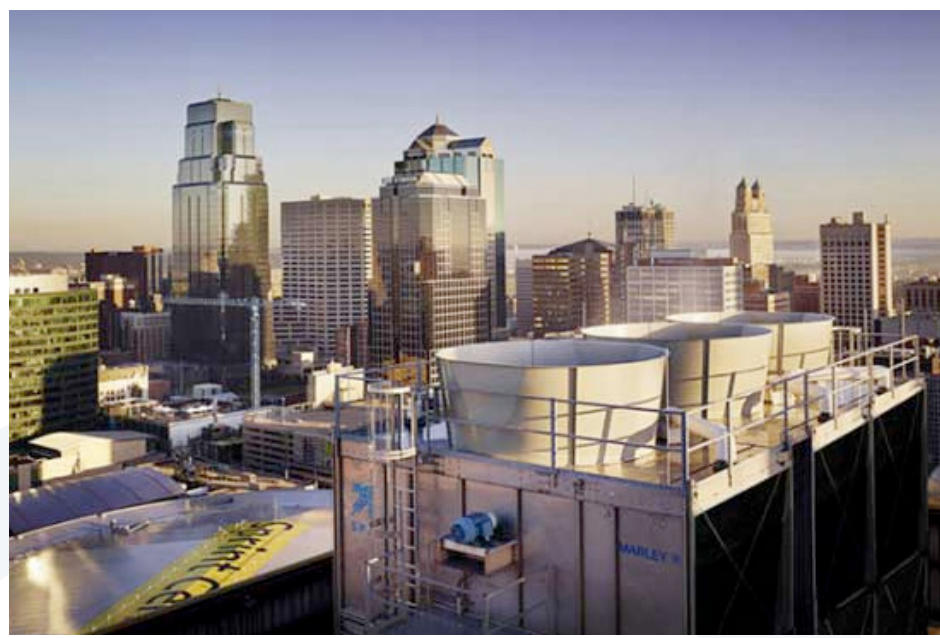
Filtration of HVAC or process cooling water is critical to achieving sustainable performance and health of equipment within heat transfer systems. **LAKOS**, manufacturers of solids and liquids separator systems, will discuss the reasons that effective filtration is needed to maintain high heat transfer efficiencies and extend the service life of hydronic equipment, using either full stream, side-stream or basin cleaning solutions. The presentation will include discussions on the LAKOS filtration offerings including, centrifugal separators, sand media tanks, disc filter, and self-cleaning screens, explaining the best choice based on the application.



SHTD+PS



Visit us at www.spxcooling.com



Breakout: Next Generation Coolers

SPX/Marley Cooling will be presenting on the newest generation of fluid coolers and hybrid coolers to enter the market. These new products offer a number of performance and sustainability benefits, including ECM fan motors for optimizing air-flow performance and efficiency during part loading conditions and copper coils for increased thermal efficiency and corrosion resistance. Marley will also present on cooling water efficiency comparisons between dry cooling, adiabatic cooling and the newest hybrid fluid cooling. We will also be touching on DX units for replacing packaged rooftop air-cooled coolers.

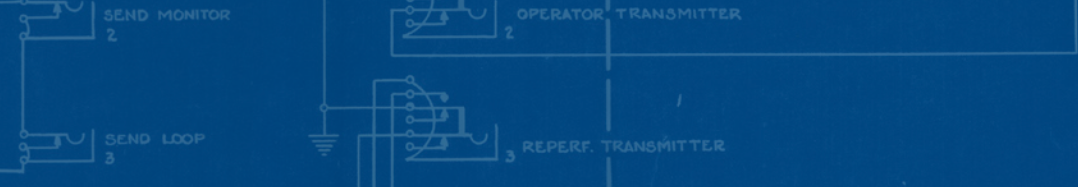


Visit us at www.weil-mclain.com

Breakout: High-Efficiency Boilers

Weil-McLain will compare and contrast the key attributes of commercial high efficiency condensing boilers and standard efficiency water boilers. The discussion will hinge on what makes modern high efficiency boilers so much more efficient than their predecessors, and what is different from other boiler designs. Other topics will include the true drivers of boiler efficiency, and what design factors enhance the longevity of high efficiency condensing boilers and standard efficiency boilers. Finally, Weil-McLain will review concepts pertaining to hybrid boiler plants, and the benefits of their application.

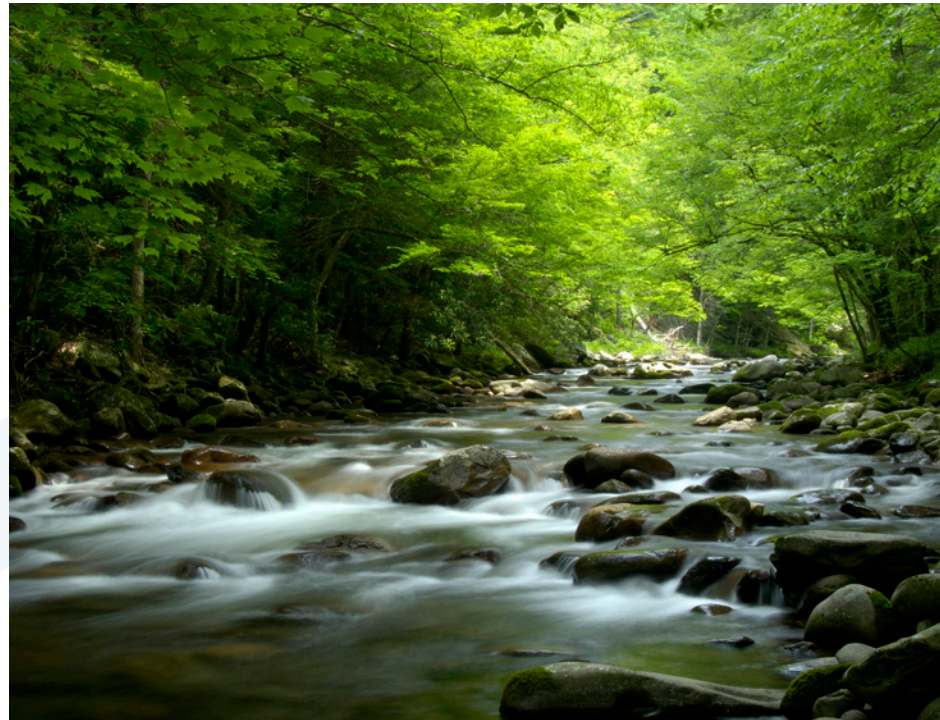




SHTD+PS



Visit us at www.flowtechsystems.com



Breakout: Chem-Free Treatment

Flow-Tech, a leading manufacturer of chemical-free water treatment technology, will discuss the sustainable and environmental benefits of their product. The presentation will demonstrate how the product saves water, energy and labor costs, and can contribute to extending equipment life expectancy. Additionally, the Flow-Tech product removes the risk and hazardous nature of on-site chemicals and chemical handling. Flow-Tech will also discuss how their product prevents all types of new scale, while removing existing calcium and magnesium scale in equipment and plumbing systems over time. Lastly, we will discuss how Flow-Tech addresses Legionella concerns by eradicating the biofilm where bacteria lives and amplifies.



Visit us at www.armstrongfluidtechnology.com

Breakout: Design Envelope Tech

Armstrong Fluid Technology, a leading manufacturer of hydronic pumps and accessories, will focus on their industry-leading Design Envelope pumping technology, and how it can yield significant sustainability benefits in the part-load HVAC industry. Design Envelope is a demand-based intelligent control solution that models equipment and system behavior, monitors actual system conditions, and dynamically adjusts equipment operation to match system demand. Armstrong will demonstrate how Design Envelope can be used to reduce equipment, installation, and energy costs in HVAC projects. The impact of pump selection at given design points will also be compared and contrasted to illustrate the ability of different selections to deliver performance and energy savings during typical operating conditions.

Breakout: System Design

Too often, our pumping design approach is to identify building load, calculate the required flow and head, and then identify a pump that can meet the design conditions. If the system requires redundancy, two pumps of duty size are selected so back-up is accounted for. Although redundancy at design day conditions is achieved, what has been sacrificed in order to provide redundancy on these handful of design days we encounter in an entire year? What if a variety of fractional sized pumps and pump configurations could be substituted to achieve a significant first cost and operational cost benefit with remarkably minor performance sacrifices? Armstrong will take you on a deep dive into a system design example to see how parallel pumping can be used to not only accommodate but optimize different design criteria.

As your exclusive representatives, we provide prompt, accurate, and thorough assistance throughout the entire cycle of your project. Regardless of the size, duration, complexity, or cost of your job, we will give you our full attention and expertise to make sure that the end result meets, and hopefully exceeds, your expectations. To us, each job is an opportunity to strengthen our long-term relationship with you, our customer.

Our local installations number in the thousands, in a wide range of business sectors, of all sizes.

www.hedrickassoc.com



POWER



THERMAL



PARTS



SERVICE