

HEAT EXCHANGER WORLD
CONFERENCE & EXPO
AMERICAS

17TH - 18TH
OCTOBER 2023
PASADENA
CONVENTION CENTER
TEXAS

Sponsored by:



Brask, Inc.
The Heat Exchanger People



VAHTERUS



ADVANCE CONFERENCE PROGRAM

WWW.HEAT-EXCHANGER-WORLD-AMERICAS.COM

Supported by:



Inspectioneering*



DAY ONE

10:00 AM	Keynote 1	<i>Chairman's Welcome: Meeting Constantly Changing Requirements in our Daily Activities</i> – Bill Ashenhart, S&B Engineers & Constructors	
10:30 AM	Keynote 2	<i>Electric Heaters 101</i> – Lauren Moran, HTRI	
11:00 AM Expo & Coffee Break			
11:30 AM – 1:00 PM	Design & Specification Panel – TEMA, API 660 & 661, PIP, ASME, ISO, PCC-1, End User Specs, etc.		
<p>Panel Moderator: Bill Ashenhart, S&B Engineers & Constructors</p> <p>Panelists will provide an overview and discuss experiences working with different heat exchanger design standards & specifications. Audience members will be provided with the opportunity to ask questions and participate in this panel discussion that will cover the good, the bad & the ugly of TEMA, API 660 & 661, PCC-1 and various end user specifications.</p> <ul style="list-style-type: none"> • Bill Huffman, TEMA • Doug Slingerland, ExxonMobil • Mark Ruffin, Teadit • Scott Hamilton, Hex Technology • Jack Piparia, Technip Energies • Ramesh Tiwari, Technip Energies 			
1:00 PM Lunch			
1:30 PM-3:30PM	Maintenance, Cleaning & Antifouling		Design, Specification & Testing
<p>Session Chair: Wade Armer, Ohmstede</p> <p>Fouling affects basically all types of heat exchangers in all industries. It not only hinders plant capacity and increases energy consumption, but it can also lead to mechanical failure. The costs associated with fouling are in the millions of dollars range for many businesses, mainly due to maintenance and energy losses. In this workshop, experts will discuss advances in fouling mitigation, ways maintenance can prevent issues, cleaning technologies, performance monitoring, and understanding of fouling mechanisms.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>The Economics of Heat Exchanger Cleaning & The Cost of Incomplete Cleaning</i> – Himanshu Joshi, Roberto Tomotaki, etc., Clean As New • <i>Vapor Nano Bubble Infusion to Mitigate the Fouling of Heat Exchangers</i> – Mike Radicone, HTRI • <i>Continuous Cleaning Solutions</i> – John Panarese, Taprogge • <i>Optimize Water Utilization: Reduce Downtime and Cost</i> – Frank Romito, StoneAge • <i>Winterization for Air Cooled Heat Exchangers for Gulf Coast Operation</i> – Jack Piparia, Technip • <i>Heat Exchanger Cleaning and Maintenance: Making the Right Choice for Your Equipment</i> – Peter Dunn, Dunn Heat Exchangers 		<p>Session Chair: Naomi Jabbari, S&B Engineers & Constructors</p> <p>Thermal design requires an experienced professional, adequate software tools, and thorough understanding of process conditions. For a shell and tube heat exchanger, for example, the number of possible combinations of materials, geometries, and heat transfer possibilities can baffle a newcomer to the industry. It is critical that during the design phase, materials selection takes into account how the equipment is going to be fabricated, as some materials add more layers of complexity to fabrication more challenges than others. Testing & Inspection are part of design codes and are often supplemented by end user requirements. They pose technological and administrative hardships on the industry and are responsible for a significant part of the cost of a new equipment. Once installed, heat exchangers also require frequent assessments to monitor remaining life. This workshop will discuss some of typical challenges encountered by designers and fabricators, while also displaying showcases of new technologies that can help in overcoming them and welcome discussions related to advances in NDE techniques, new standards, and common challenges in implementing testing & inspection procedures.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Plate Heat Exchanger Case Studies - Specify with the Owner/Operator in Mind</i> – Chad Degges, HTS, Inc. • <i>Direct Gas Fired Heating of Viscous Media and Design Considerations</i> – Shailendra Seecharan, Enerquip Thermal Solutions • <i>Stifling Acoustic Vibration - Just Another Baffle (or Two)</i> – Lauren Moran, HTRI • <i>Helium Mass Spectrometry Leak Detection</i> – Dyron Lawson, American Efficiency Services 	
3:00 PM - 5:00 PM Happy Hour and Band (at 5:00 PM)			

CONTACT US

Exhibition stands provide an Ideal platform to showcase your company's products and people. The price for the exhibition stand includes pipes, drapes setup and a basic stand furniture package, but excludes electricity. Contact Roger Caetano, Expo & Sales Coordinator, to learn more!

Roger Caetano
 Expo & Sales Coordinator
 r.caetano@kci-world.com
 +1-647-291-7030

Sarah Bradley
 Editor-in-Chief, Conference Coordinator
 s.bradley@kci-world.com
 +1-416-937-4796

Sara Mathov
 Editor, Conference Coordinator
 s.mathov@kci-world.com
 +1 647-717-3983

DAY TWO

10:00 AM	Keynote 3	<i>Energy Transition – Net Zero by 2050</i> – Naomi Jabbari, S&B Engineers & Constructors	
10:30 AM	Keynote 4	<i>Adoption of New Technology - Don't be Resistant to Change</i> – Fred Schweighardt, Airgas, an Air Liquide Company	
11:00 AM	Expo & Coffee Break		
11:30 AM – 12:30 PM	<p align="center">Managing Aging Plants, Equipment Upgrades, & Best Practices Panel</p> <p>Panel Moderator: Dinesh Bakshi, Brask</p> <p>Many of the industrial plants currently operating in the United States are about to reach, or have already surpassed, the life expectancies specified when they were originally designed and built. However, far from becoming obsolete and being discarded or dismantled, they continue to remain very productive because they are still important to the profitability and success of our western economies. To ensure that this status quo is maintained well into the future, plant managers must be able to guarantee that they can be kept economically sustainable and safe, as well as profitable. This panel will discuss challenges being faced by operators working with heat transfer equipment and best practices for getting the most out of the lifespan of your equipment.</p> <ul style="list-style-type: none"> • Biren Patel, Covestro • Jan Contreras, Logan Industries • Jamal Jamalyaria, Flexitallic • Mark Ruffin, Teadit • Mike Prevost, Ohmstede • Ben Fruge, Sasol • Tim Goedeker, Consultant 		
1:00 PM	Lunch		
1:30 PM-2:30PM	<p align="center">Bolted Joints</p> <p>Session Chair: Scott Hamilton, Hex Technology</p> <p>Bolted joints are more complex than welded joints, and play a critical role for performance and safety of pressurized equipment such as heat exchangers. Despite this, there are many myths and bad habits associated with bolted joints. The myths and confusion happened around items like: amount of torque applied to nuts, nut friction, type of gasket used, the size of the studs/nuts/flanges, the type of equipment used for tightening, the calibration of the torquing equipment, flange face alignment, and torquing sequence, to name a few. In this workshop, we will explore best practices for bolted joints assemblies, the importance of training for assuring consistent torquing practices, and discuss and some root causes of joint failure.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>How Flat is Flat - In-Situ Repair: OD Mount Machines</i> – Glen Elps, Superior Plant Rentals • <i>Bolting Demo</i> – Scott Hamilton, Hex Technology & Mark Ruffin, Teadit 	<p align="center">Fabrication & Welding</p> <p>Session Chair: Fred Schweighardt, Airgas, an Air Liquide Company</p> <p>Despite the rise of new technologies, such as 3D metal printing, the majority of heat exchangers being manufactured still relies on traditional fabrication techniques of metal forming, welding and machining. It is critical that during the design phase, materials selection takes into account how the equipment is going to be fabricated, as some materials add more layers of complexity to fabrication more challenges than others (titanium, for example). This workshop will discuss some of typical challenges encountered by designers, fabricators and welders, while also displaying showcases of new technologies that can help in overcoming them.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Is Continuous Improvement Possible Today</i> – Chris Jungers, Cust-O-Fab • <i>Orbital Machines for Tube to Tubesheet Joints</i> – Jan Contreras, Logan Industries • <i>Comparison of Tube Expansion Methods</i> – Mike Nemeth, Elliott Tool Technologies, and Fermin Sandoval, The Dow Chemical Company 	
2:30 PM - 3:00 PM	Break		
3:00 PM-5:00PM	<p align="center">Other Types of Exchangers</p> <p>Session Chair: Jack Piparia, Technip</p> <p>Fouling effects all types of heats exchangers in all industries. It not only hinders plant capacity and increases energy consumption, but it can also lead to mechanical failure. The costs associated with fouling are in the millions of dollars range for many businesses, mainly due to maintenance and energy losses. In this workshop, experts will discuss advances in fouling mitigation, ways maintenance can prevent issues, cleaning technologies, performance monitoring, and understanding of fouling mechanisms.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Maintenance and Repair on ACHE (Fin Fan) Units</i> – Eric Tinneman, Equipment Group International • <i>Detecting Vibration and Preventing Fan Failure in Industrial Heat Exchangers</i> – Everett Jesse, Metrix • <i>Air Cooled Heat Exchanger Plugs</i> – Jamal Jamalyaria & Eric Fuselier, Flexitallic • <i>Sweet Spot for Continuous Plate-Fin Heat Exchangers in Air-Cooler Industry/Benefits of Continuous Plate Fin-Tube Vs. Spiral Wound Fin-Tube Heat Exchanger</i> – Harrison Waneke & Prashant Jadhav, Superior Radiator Coils • <i>Is Air-to-Air Heat Recovery Right for Your Application?</i> – Guy Livingston, PRE-heat 	<p align="center">New Technologies & Material Selection</p> <p>Session Chair: Lauren Moran, HTRI</p> <p>Materials selection takes into account how the equipment is going to be fabricated, as some materials add more layers of complexity to fabrication more challenges than others (titanium, for example). This workshop will discuss the importance of proper material selection, as well as highlight new technologies impacting the heat transfer industry.</p> <p>Presentations:</p> <ul style="list-style-type: none"> • <i>Selecting the Right Corrosion Resistant Alloys for Heat Exchangers in the Chemical Process Industry</i> – Luiza Esteves, Alleima • <i>Introduction of Chrome Nickel Moly alloy UNS N06059 as choice of stainless-steel seamless heat exchanger tubes in between other alloys UNS N10276 and UNS N06022</i> – Venkat Ramesh, Tubacex • <i>Heat Exchanger Monitoring in the Industry 4.0 era</i> – Himanshu Joshi and Francesco Coletti, Hexcell • <i>Enhanced Baffle Design for Electric Heat Exchangers in Gas Applications</i> - Matthew Deltondo, Thermon 	

BRINGING TOGETHER THE HEAT EXCHANGER COMMUNITY!

Be part of the Heat Exchanger World Americas Conference & Expo on October 17th & 18th, 2023 at the Pasadena Convention Center in Pasadena, TX. Featuring an exhibition and a technical conference, the event will have something to offer everyone, including manufacturers, fabricators, service providers, EPCs, and end users. We invite presentations to be made on a wide variety of topics related to heat exchangers and heat transfer equipment use, maintenance, repair, design and more. Submit an abstract for a technical presentation or discussion-based workshop now!

A MESSAGE FROM THE CHAIRMAN



I am honored and excited to be the Chairman for the Heat Exchanger World Americas Conference & Expo 2023. This conference is unique in the Heat Exchanger arena because the attendance is from all aspects of the field. Attendees, sponsors, sub-sponsors, and presenters represent the gamut from the raw material and fabrication equipment suppliers, EPC organizations, heat exchanger fabricators, end users and even further to those responsible for maintaining the equipment over its lifespan.

The Texas & Louisiana Gulf Coast has long been recognized as the Energy Capital of the world with Houston being at the center. This collection of petrochemical facilities, refineries and chemical plants, midstream & pipeline, offshore production, LNG and Ethane export terminals along with all the associated infrastructure supporting these facilities are all dependent on efficient heat transfer equipment.

Of particular importance today are the changes our various industries must undergo in the coming years to account for more stringent Greenhouse Gas (GHG) and Environmental, Social, and Governance (ESG) requirements. These are both legal mandates and societal perception requirements. Learning how to not only keep the existing heat transfer equipment operating efficiently but also how the design and implement new equipment and processes with increased efficiency is critical. On a personal basis, one of my primary reasons for coming to an event of this type is that I always discover or learn something new.

At the 2023 conference people from across the spectrum of heat exchanger equipment can attend unique and relevant technical presentations, network with industry peers along with discovering new equipment and techniques to make their jobs easier. This conference offers something for everyone, no matter what industry they work in. I believe that every attendee will discover something new and applicable to their daily job from their participation.

I am looking forward to meeting all of you!

Bill Ashenhart, *Principle Engineer – Heat Transfer – S&B Engineers & Constructors*

A MESSAGE FROM THE VICE CHAIRMAN



I am honored to be the Vice Chairman for Heat Exchanger World Americas Conference & Expo 2023. I look forward to this stellar event where attendees can enjoy the networking opportunities, technical demonstrations, and learn of the latest innovations in heat transfer equipment. This event will once again serve as a stage for new technologies, ways of thinking, and cost-saving initiatives recently developed in this diverse industry. Last year's event was incredibly rewarding.

Throughout my career, I have led the charge in making sure industry professionals are knowledgeable and aware of bolting guidelines and best practices.

As Chair of ASME PCC-1, I am leading the push to create and implement standards for bolted flange joint assemblies. During my career I have been able to assist OEMs, end users, and the industry in providing the training necessary to understand bolting in relation to heat exchangers and other industrial systems. Training and education is the best way to ensure that your heat transfer equipment reaches peak performance – knowledge and understanding of the equipment is vital to extending the life of your assets, troubleshooting issues and improving processes.

Whether it be savings on heat exchanger costs, reliability improvements, maintenance, or networking opportunities that brought you to Heat Exchanger World, I am confident that there is something for every professional from hands on demonstrations, technical presentations, panel discussions and more. I look forward to seeing you all there!

Scott Hamilton, *Founder & CEO – Hex Technology*

STEERING COMMITTEE

Bal Sareen, *President – Brask, Inc.*
Biren Patel, *Process & Equipment Engineering – Covestro*
Buddy Tucker, *Vice President of Sales & Marketing – Ohmstede Industrial Services*
Chris Grice, *VP of Field Services – Ward Vessel & Exchanger*
Chris Jungers, *Vice President – Process Equipment – Cust-O-Fab*
Craig Sullivan, *President – ADTUBI USA, Inc.*
Cuong Nguyen, *Heat Transfer Technical Director I – Fluor*
Dan DeVine, *Piping, Valve, and Pressure Vessel Engineer – Corteva AgriScience/Midland Engineering, Ltd.*
Doug Sinitiere, *Global Market Manager – Oil & Gas – Carboline Company*
Dinesh Bakshi, *Corporate Business Development Manager – Brask, Inc.*
Fred Schweighardt, *National Projects Leader – Airgas, an Air Liquide company*
Gilbert Alonzo, *Consultant*
Glen Elps, *Sales Manager – Superior Plant Rentals*
Heather Mroz, *Technical Development Manager Heat Transfer – NobelClad*
Himanshu Patel, *Senior Process Engineer – Bechtel Oil, Gas and Chemical*
Jan Contreras, *Manager of Sales – Logan Industries*
Jack Piparia, *Sr. Supervising Engineer / Lead Mechanical (LNG) – Technip Energies*

Jonathan Pascoe, *President - Americas – Vahterus*
Kimberly Derry, *Marketing and Business Development – Superior Plant Rentals*
Kyle Dunn, *Business Owner and Compliance Manager – Dunn Heat Exchangers*
Lauren Moran, *Manager Technical Support – HTRI*
Louis Gonzalez, *Marketing and Communications Manager – Flexitallic Group*
Mike Nemeth, *Chief Development Officer/Principal – Elliott Tool Technologies Ltd.*
Mike Prevost, *Vice President - Specialty Services – Ohmstede Industrial Services*
Naomi Jabbari, *Heat Transfer Engineer – S&B Engineers & Constructors*
Naresh Shah, *Technical Director – Worley*
Noel Thomas, *Heat Transfer Engineer – Bechtel Oil, Gas and Chemical*
Paul Miller, *Lead Heat Transfer Engineer – Dimensional Energy*
Rachel Lanczynski, *Vessel Engineering Global Competency Leader – Corteva*
Robbie Riggs, *Director - Engineering and Technical Services – Teadit North America*
Robert Trouts, *Corporate Account Manager – HVTORC*
Srivatsa Jois, *Maintenance Engineer – Covestro*
Sumeet Agarwal, *Project Engineer – Zeppelin Systems USA, Inc.*