

# Heat Exchanger World Conference & Expo Europe

13 & 14 November 2024, Rotterdam Ahoy, Netherlands



## ADVANCE CONFERENCE PROGRAMME

# “EXCHANGE WHAT MATTERS”

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## Heat Exchanger World Conference & Expo Europe 2024



The Heat Exchanger World Conference & Expo Europe will take place in Rotterdam, the Netherlands, on 13 and 14 November. Staged in Rotterdam Ahoy, the event brings together end users, engineering companies, designers, fabricators, manufacturers, and more from across the whole supply chain in a wide range of industries using heat exchangers.

The goal of the event is to facilitate the exchange of knowledge and experience about heat exchanger materials, applications, and innovations, with a clear aspiration to optimise the use of heat exchangers in terms of safety, performance, reliability, and costs within the global marketplace.

Our event will be held at Rotterdam Ahoy, a multi-purpose complex that has hosted countless events and exhibitions in its numerous halls within the Ahoy Plaza, which makes it the perfect venue to get together and share new industry developments.

### MEET OUR CHAIRPERSON :

#### Aeishwarya Chaudhari

*Head of Mechanical Engineering, Vulcan Energy Resources*

*"It is my pleasure to present our Heat Exchanger World Europe Advance Conference Programme 2024. After much planning and organisation, I am looking forward to finally meeting our heat exchanger community in person at our much-anticipated event.*

*Our technical conference is designed to facilitate knowledge-sharing and new opportunities among the heat transfer industry. This advance conference programme showcases some of the plans we have in store, from the conference rooms to the expo floor to the sister event Duplex World. I hope that you enjoy these two days of learning, networking, and opportunity."*



### WHAT TO EXPECT:



- ✓ Build connections with experts and peers to gain and improve knowledge
- ✓ Further develop end-user understanding of specialist equipment
- ✓ Promotion of new products and projects
- ✓ Updates on the latest developments and best practices in industrial heat exchange
- ✓ A look to the future of the supply chain and the changing needs of the industry
- ✓ Expand business networks and direct business-to-business opportunities

*Heat Exchanger World Europe is the perfect opportunity to share new industry developments; we look forward to seeing you there!*

## Heat Exchanger World Conference Europe 2024 Steering Committee

Our 2024 Conference is headed by a panel of experts representing the heat transfer industry, from end users to manufacturers to service providers. With their combined knowledge and experience, the Heat Exchanger World Conference Europe Steering Committee will work to ensure that the conference programme is engaging, topical, and full of technical insights.

### Meet our 2024 Steering Committee!

- Abdollah Bayati – *Heat Transfer Subject Matter Expert, McDermott*
- Aeshwarya Chaudhari – *Head of Mechanical Engineering, Vulcan Energy Resources*
- Barinder Ghai – *Director Technical Marketing, Alleima*
- John Houben – *Principal Welding and Surface Modification Engineer, ExxonMobil*
- Himanshu Joshi – *Heat Exchanger and Fouling Consultant, formerly of Shell*
- Dr. Ing. Hans Zettler – *President HTRI*
- Massimo Brignoli - *Senior Sales Manager Italian Market, Mannesmann Stainless Tubes*
- Musa Smakaj - *CEO, ZILONIS*



## About the sponsors

### Alleima

Alleima is a leading manufacturer of high-value-added products in advanced stainless steels, special alloys, and products for industrial heating. Based on long-term customer partnerships and leading materials technology, the company advances processes and applications in the most demanding industries. With more than 900 active alloy recipes, Alleima's product range offers seamless stainless tubes, electric heating technology & resistance materials.

### HEAVY METAL

Heavy Metal & Tubes (India) Pvt. Ltd. specialises in seamless carbon and alloy steel tubes/pipes, as well as stainless steel seamless and welded variants. Their products are largely used in shell & tube heat exchangers, but also find use in air-fin coolers, boilers, condensers, and more. Proud to be an Indian company, Heavy Metals has a global customer base.

### MANNESMANN STAINLESS TUBES

A Member of the Salzgitter Group

Mannesmann Stainless Tubes' (MST) serves diverse markets, including oil & gas, power, and aerospace. The company embraces innovation and is a key driver and contributor to the generation of new specifications that become tomorrow's standards. MST's products range from 1.6mm (0.063") to 280mm (11") outside diameter across the full range of seamless austenitic stainless and nickel alloy grades, complemented by super-austenitics like 904L and 6Mo, duplex and super duplex alloys.

### ZILONIS®

ZILONIS is a pioneer in the international context, specializing in the manufacturing of heat exchangers, apparatuses, and containers. As trailblazers in traditional industries, they position themselves as an innovative producer that develops future-oriented solutions based on decades of experience. ZILONIS products play a significant role in the sustainable and efficient management of heat, as well as in environmentally friendly transfer and storage. ZILONIS is the result of the consolidation of various brands, all pursuing a shared goal: to shape a more ecologically sound future.

## WEDNESDAY 13 NOVEMBER

**09:00** Exhibition floor opens

**09:45** Welcome by Aishwarya Chaudhari, Heat Exchanger World Conference Chairperson

**10:00 – 10:30 1<sup>st</sup> keynote speaker:** The evolving role of heat transfer and innovation. *Martin Gough, CALGAVIN Ltd*

**10:30 – 11:00 2<sup>nd</sup> keynote speaker:** Harnessing the power of air-cooled heat exchangers. *Len Zoetermeijer, Independant consultant, former Shell*

### 11:00 Coffee and networking on the exhibition floor

#### 11:30 – 12:30 Session: Heat exchanger technology

*Moderator: Janardhan Saithala*

- Comparison of parallel-pin and tapered-pin tube expansion methods and practical manufacturing considerations. *Ben Lambers, Elliott Tool Technologies*
- Use of spiral tube heat exchangers in hydro-processing units. *Christophe Gajecki, ZPJE*
- Digitalisation enabled optimisation of cooling water chemicals in an LNG plant. *Anal Chavan, Nigeria LNG*
- Thermodynamic software for heat exchangers using ZILEX system. *Musa Smakaj, ZILONIS*

#### 11:30 – 12:30 Session: Welding and additive manufacturing

- Laser welding technology in the worldwide use of heat exchanger tubes. *Manfred Seewald, Fischer Group*
- Advancement of embedded thermal management manufactured via CoreFlow®. *Sam Holdsworth, TWI Ltd*
- Friction stir welding: a game changer for thermal efficiency and cost reduction of liquid cold plates. *Tiphaine Louis, Stirweld*

### 12:30 Lunch break and networking on the exhibition floor

#### 14:00 – 15:30 Session: Heat exchanger maintenance

*Moderator: Himanshu Joshi*

- Special enclosure high pressure heat exchanger chronicles: tales of triumphs and tribulations. *Muhammad Aizat Rasli, PETRONAS*
- Digitalisation & records for heat exchanger tube plugging to ASME PC-2022 Article 312. *Ron de Rijk, Curtiss Wright EST Group*
- Technological advancements for efficient service and maintenance of Heat Exchangers. *Svein Tore Milwertz, Izomax*
- Revolutionising heat exchanger maintenance: a pathway to sustainability and operational excellence. *Armin Xaver Saeidiani-Rädler, AC Rädler*

#### 14:00 – 15:30 Session: Material selection/corrosion

*Moderator: Barinder Ghai*

- Metallic heat exchangers for phosphoric acid evaporators. *Jonas Howing, Alleima*
- A technical comparison of heat exchanger materials with a high chemical resistance. *Christian Stentzel, Head of Research & Development, THALETEC*
- Phencote coating system to optimise durability and energy efficiency of heat exchangers. *Lorenzo Comel, G.M.A. SRL*
- PPS-GR: The key to efficient waste heat utilisation and CO<sub>2</sub> separation in corrosive environments. *Julia Klein, Technoform Tailored Solutions Holding GmbH*

### 15:30 - 16:00 Coffee and networking on the exhibition floor

#### 16:00 – 17:30 INTERACTIVE WORKSHOP:

#### Appropriate selection and successful uses of duplex stainless steels

*Hosted by Roger Francis, RF Materials & Joelle Greenwood, Consultant*

This workshop will give a brief introduction to the properties of duplex stainless steels and how these can be utilised for a cost effective material selection compared with other alloys. The workshop will also discuss fabricating duplex stainless steels and how to avoid common pitfalls. Some examples will be given where duplex alloys have provided an economic long term option for specific applications, including heat exchangers. Some cases will also show what happens when the limits of use are exceeded.



#### 16:00 – 17:30 Session: Heat exchanger design

*Moderator: Himanshu Joshi*

- Lifecycle cost analysis of SCHE vs conventional heat exchanger. *Aishwarya Chaudhari, Nivedita Rishiraj, BASF Chemicals India*
- H<sub>2</sub> central cooling system optimising power and water consumption as well as plot occupation using KTS Cascade cooling solution. *Roy Niekerk, Kelvion*
- Relaxation of the bolted flange joint In temperature-cycling environments. *Robert Taylor, 3S Superior Sealing Services LLC*
- Advanced thermal solutions: Integrating AI and engineering expertise. *Ángel Meroño, Mecánicas Bolea*

### 18:00 Networking dinner

The Networking Dinner at Hotel New York is a combined event for Heat Exchanger World and Duplex World.

It's an opportunity to meet and discuss business and further develop your industry connections over delicious food and drinks in this iconic and historic venue dating from 1901. Transport will be arranged to transfer dinner guests to the venue at 18:00.

## THURSDAY 14 NOVEMBER

**09:00** Exhibition floor opens

**09:30 – 10:00 Keynote speaker:** Printed circuit heat exchangers: Application development along the energy transition.  
*Richard Bowcutt, Parker*

**10:00 – 11:00 Session: Energy transition and heat exchanger applications**

- Thermal transfer solutions to optimise the energy balance of anaerobic digestion plants. *Arnold Kleijn, HRS Heat Exchangers*
- Carbon capture and storage on post combustion absorption process highlighting various heat exchangers needs and KTS solutions for those, *Marcin Karas, Kelvion*
- Cooling water system selection, a challenge in green hydrogen plants, *Nazari Shahab, McDermott*

**10:00 – 11:00 Session: Heat exchanger design**

*Moderator: Musa Smakaj*

- Enhanced welded tubes: from the strip to the heat exchange performance. *Olivier Favrat, Neotiss*
- Maximising heat transfer efficiency through boiling and condensation phase changes. *Nathan Hill, CALGAVIN Ltd*
- From weld seams to heat exchangers: manufacturing & design optimisation with AI. *Elmar Münchinger, Lauterbach Verfahrenstechnik GmbH*

**11:00 Coffee and networking on the exhibition floor**

**11:30 – 12:30 Session: Fouling/cleaning operations**

*Moderator: Hans Zettler*

- Automated prediction model for scaling health assessment in cooling water heat exchangers. *Tze How Koay, Petronas*
- AGITATE – Industrial solution for fouling and scaling. *Mark Bruce, Agitate Ultrasonics*
- Application of a self-cleaning fluidized bed heat exchanger using a bundle made of graphite. *Marco van Beek, KLAREN Technology*

**11:30 – 12:30 Session: Electrical heat exchangers**

*Moderator: Jeroen van Ruitenbek*

- Electrification of heating processes – the road towards a fossil-free industry. *Dilip Chandrasekaran, Kanthal*
- Evolution and developments in electric heat exchangers. *Luuk de Niet, Thermon*

**12:30 Lunch break and networking on the exhibition floor**

**14:00 – 15:30 HEAT EXCHANGER WORLD ROOM 1**

**Supply chain & availability issues – a panel discussion**

*Moderator: Barinder Ghai*

Join the discussion as our experts representing EPCs, end-user companies, fabricators, and manufacturers discuss issues they most commonly face affecting the supply chain. Topics covered include the availability of grades and product forms, supply bottlenecks, material restrictions, etc and how these can be alleviated. The discussion will also feature an extensive Q&A with an audience.

1. Kelvion
2. Petronas
3. Janardhan Saithala, Petroleum Development Oman
4. Kinam Engineering Industries

**15:30 Refreshments and conference closing**

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MAIN ENTRANCE

Last update: 2024-August-22

Duplex Seminar & Summit  
 For more information please contact

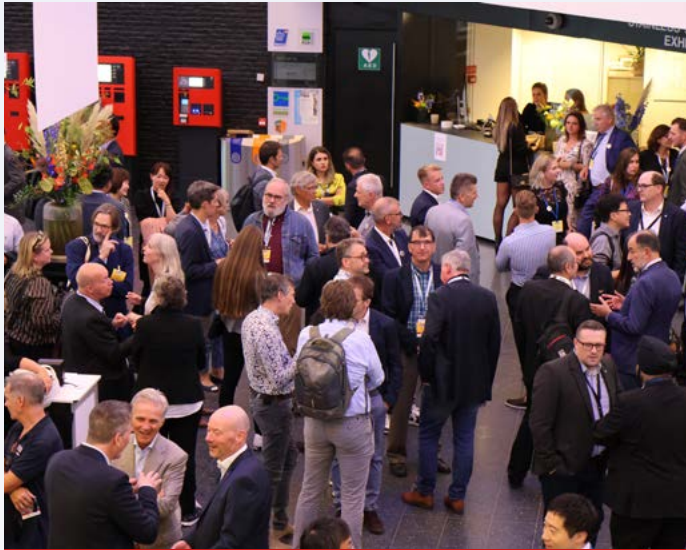
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- Sold Row stand: € 300 / m<sup>2</sup>
- Available Corner stand: € 375 / m<sup>2</sup>
- Option Co-exhibitor: € 900,-

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## OUTSTANDING NETWORKING

Heat Exchanger World Europe is an interactive event where suppliers, manufacturers, end-users and researchers meet to discuss practical experiences, innovations and new applications. With the conference rooms located on the exhibition floor, delegates, exhibitors and visitors are free to meet and mingle.



## Expo Information

The Heat Exchanger World Europe Expo 2024 is a meeting ground for those working in every field of the heat transfer supply chain. It is tailored toward providing direct business-to-business and networking opportunities and will welcome a diversity of global knowledge from exhibitors, visitors and conference delegates, which we hope will contribute to expanding the understanding and knowledge necessary for future industry growth.

## Exhibition stands

Stands provide the ideal platform to showcase your company's products, services and activities and facilitate direct B2B activity. Benefit from the attention of the engineers, procurement managers, and decision-makers present.

### Prices:

Row stand: €300/m<sup>2</sup>

Corner stand: €375/m<sup>2</sup>



## Expo highlights

- > Representation from a broad range of companies from Europe and beyond
- > The event will attract the full spectrum of the heat exchanger supply chain: manufacturers, end-users, researchers, engineers, etc.
- > Rotterdam is the industrial heart of the Netherlands, the home away from home for many industries



## Our Heat Exchanger World European event will be held alongside Duplex World Conference & Expo!



Also held at the Rotterdam Ahoy on 13 & 14 November, Duplex World is a dynamic and interactive event with a strong focus on personal interaction, coupled with a high-quality technical seminar program. Duplex World unites stainless steel researchers, manufacturers, end-users and suppliers in an open and focused forum. **One ticket gives access to both events!**

- For information on exhibiting at Duplex World and Heat Exchanger World Europe, contact:

- Mr Sjoerd Hesseling
- Tel: +31 630-996-476
- Email: s.hesseling@kci-world.com
- www.stainless-steel-world-duplex.com
- https://
- heat-exchanger-world-europe.com/



## CONFERENCE TICKETS

### 2 Days Conference Registration

- Two days of participation in all sessions and workshops
- Conference proceedings online (password protected) after the event
- Two days of unlimited access to the Duplex World Exhibition
- Two days of unlimited access to the Heat Exchange World Europe Exhibition

€495

### 1 Day Conference Registration

- One day participation in all conference sessions and workshops (choose either 13 or 14 November)
- Conference proceedings online (password protected) after the event
- One day unlimited access to the Duplex World Exhibition
- One day unlimited access to the Heat Exchanger World Europe Exhibition

€295



## EXHIBITION VISITOR TICKETS

### Expo Visitor Pass

- Access to the full two days of Heat Exchanger World Europe Expo
  - Access to the full two days of Duplex World Expo
- DOES NOT INCLUDE ACCESS TO THE CONFERENCE*

€30



## HEAT EXCHANGER WORLD NETWORKING DINNER WEDNESDAY 13 NOVEMBER

The Networking Dinner will be a combined event for Heat Exchanger World and Duplex World. It's an opportunity to meet and discuss business and further develop your industry connections over delicious food and drinks. Transport will be arranged to transfer dinner guests to the venue.

€95

