



DUPLEX WORLD CONFERENCE & EXPO 2026

6 & 7 May 2026
Rotterdam Ahoy, the Netherlands

Advance Conference Program

Enabling tomorrows sustainable solutions



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Organised by:



www.stainless-steel-world-duplex.com

Join us at Duplex World 2026!

Duplex World Conference & Expo is the leading knowledge, networking and business event for the global duplex community. Duplex World unites materials researchers, manufacturers, end-users and suppliers in an open and focused forum. It's the world's premier event for duplex stainless steel, covering the entire supply chain.

A WORD FROM OUR CHAIRMAN...

Dear colleagues, industry partners, and future delegates, It is with great pleasure and enthusiasm that I invite you to the Duplex World Conference 2026, taking place on 6 & 7 May in the vibrant city of Rotterdam.

This conference will host a gathering of global experts, innovators, and professionals dedicated to the advancement and application of duplex stainless steels. It brings together a dynamic mix of thought leaders, researchers, engineers, and end-users to share cutting-edge developments, real-world case studies, and future-focused insights shaping our industry.

With the industry expanding and the associated challenges this brings, the utilisation of duplex stainless steel has become increasingly vital, either for ensuring supply assurance or for producing reliable and cost-effective products. Hence, there is a need for effective collaboration among all parties to ensure alignment and meet expectations.

Over two days, we aim to inspire meaningful discussions at all levels of expertise, to share different background experiences, foster valuable connections, and provide a platform for technical excellence and innovation.

I look forward to meeting many of you personally and to an exciting and productive conference ahead.



Dr Talal Al Nabhani
 Material and Integrity Manager
 Petroleum Development Oman

OUTSTANDING NETWORKING

Duplex World is an interactive event where suppliers, manufacturers, end-users and researchers meet to discuss practical experiences, innovations and applications. With the conference rooms located on the exhibition floor, delegates, exhibitors and visitors are free to meet and mingle. A networking reception and an informal dinner also facilitate the building of new relationships.



WHY JOIN DUPLEX WORLD?

- ✓ **Great networking** – Everyone here is relevant to your business
- ✓ **Knowledge exchange** - Renowned for sharing expertise, research & experience.
- ✓ **Showcase your expertise** - This is a niche industry event
- ✓ **Raise your profile** – Access our global community



MEET THE DUPLEX WORLD STEERING COMMITTEE

The Duplex World Steering Committee represents some of the world's leading experts in duplex stainless steel and material science. These dedicated individuals have devoted their time and expertise to developing a high-quality, technical conference program.



Chairman:
Dr Talal Al Nabhani,
Materials and Integrity
Manager, *Petroleum
Development Oman*



Dr Ir. David Farias,
Materials & Corrosion Engineer,
Neste



Dr Thomas Ladwein,
Consultant, *Steinbeis
Transferzentrum Korrosion
und Werkstoff*



Jacko Aerts,
Global Expert LTE/Materials
& Corrosion, *dsm-firmenich*



Dr Yassar Ghanimi,
Consultant



Alejandra Lopez,
R&D Manager, *Tubacex*



Mark van den Broek,
Fellow – Materials and
Welding, *Fluor*



Barinder Ghai,
Director Technical Marketing
and New Business Development
EMEA, *Alleima*



Anna Negri,
Director of Sales, Purchasing
Director Raw Materials,
BUTTING



Tim Collins,
Secretary-General,
worldstainless



Joelle Greenwood,
Consultant



Rodney Rice,
Director, *Langley Alloys*



Raymond Cordewener,
Director, *R Cordewener
Management & Consultancy*



Dr Saman Hosseinpour,
R&D Team Lead, Corrosion,
Outokumpu



Iris Rommerskirchen,
Business Development
Director, *EBK*



Bruce Cowe,
Manager Offshore and New
Energies Corrosion Team,
TotalEnergies



John Houben,
Principal Welding and Surface
Modification Engineer, *Exxon
Mobil Technology & Engineering
Company*



Janardhan Saithala,
Senior Engineering Advisor -
Materials & Corrosion, *Blade
Energy Partners*



Dr Dirk Engelberg,
Professor in Materials
Performance & Corrosion,
The University of Manchester



Hans Martin Jahan,
Leading Advisor Metallic
Materials & Welding, *Equinor ASA*



Kasra Sotoudeh,
Technical Advisor and
Manager, Materials
Performance and Integrity
Group, *TWI Ltd*



Dr Ir. Evelyn Dayss,
Senior Hardware Discipline
Manager,
Dow Olefinverbund GmbH



Hayato Kayama,
General Manager, Engineer,
Pipe & Tube Products,
NIPPON STEEL EUROPE GmbH



Rob Spelt,
Managing Director, *Spelt
Engineering & Contracting b.v.*



Duplex World Conference, 6 May

09.45 Welcome from Conference Chairman, Dr Talal Al Nabhani , <i>Material and Integrity Manager, Petroleum Development Oman</i>
10.00 Keynote: Structural duplex stainless steel - a solution for modern infrastructure challenges. Nancy Baddoo , <i>Associate Director, The Steel Construction Institute</i>
10.30 Keynote: Building resilient maintenance supply chains with digital inventory and on-demand manufacturing. Martin Andersson , <i>Chief Operating Officer, Fieldnode</i>

11.00 – 11.30 Coffee break

ROOM 1	ROOM 2
<p>11.30 Corrosion Moderator: Dirk Engelberg</p> <p>This session examines how duplex and super duplex stainless steels perform in harsh chloride-rich environments, from high-salinity water to marine exposure. Speakers will present new insights into crevice and pitting corrosion behaviour, linking lab data and field results to real-world material selection and application.</p> <ul style="list-style-type: none"> Crevice corrosion resistance of 25Cr super duplex stainless steel in high salinity produced water. <i>Vegard Bakkene Aasen, Equinor</i> Duplex stainless steel in the marine environment: from field exposure test to application. <i>Mia Liimatainen, Outokumpu</i> Pitting corrosion resistance of as-delivered surface duplex 2205. <i>Pauline Huguenin, Aperam</i> 	<p>11.30 Duplex applications Moderator: Rodney Rice</p> <p>Explore the practical realities of deploying duplex stainless steels in demanding industrial environments, from oil & gas to chemical processing. This session considers specification challenges and performance limitations before considering how newer alloy concepts aim to extend service life and reduce maintenance burdens.</p> <ul style="list-style-type: none"> Failure analysis and remediation of a 22Cr duplex stainless steel 3x6 reducer and associated pipeline. <i>Ahmed Al Yahyaai, Petroleum Development Oman (PDO)</i> Limitations of duplex stainless steels in the process industry. <i>Jonas Howing, Alleima</i> Duplex reimagined: Nikopolium NP 2205 and NP 2507 - engineering solution bringing higher quality, longer life and lower maintenance. <i>Andrii Balev, Centravis</i>

12.30-14.00 Lunch

<p>14.00 Panel discussion: Securing cost-effective testing requirements of duplex stainless steels in tune with technical applications</p> <p>Panellists:</p> <ul style="list-style-type: none"> Mark van den Broek, <i>Fellow- Materials & Welding, Fluor</i> Hans Martin Jähren, <i>Leading Advisor Metallic Materials & Welding, Equinor</i> John Houben, <i>Principal Welding & Surface Modification Engineer, ExxonMobil</i> <p>An interactive discussion of the most common quality requirements for duplex materials and welding. Quality and cost go hand in hand, but are standards always critical, or should they sometimes be re-evaluated to simplify technical specifications?</p> <p>The session will start with a short presentation by <i>Nitin Bajpai from Fluor</i>.</p> <p>Topics covered will include:</p> <ul style="list-style-type: none"> Key requirements from common standards and practices. The rationale for requirements that are poorly understood. Impact of choice on cost and schedule to compliance. When to apply or exclude specific requirements. Welding processes and consumable selection. Implications of forming and heat treatment of components. 	<p>14.00 Performance optimisation of welded duplex Moderator: Raymond Cordewener</p> <p>Focusing on welding super duplex stainless steels, this session examines how process variables, from wire chemistry and GTAW/TIPTIG parameters to shielding and backing gas composition, shape weld metal and root microstructures. Presenters will link these microstructural shifts to corrosion performance, including efforts to surpass PREN 42 and boost pitting resistance in demanding service environments.</p> <ul style="list-style-type: none"> Microstructure and corrosion behaviour of GTAW - TIPTIG welded super duplex stainless steel. <i>Dirk Engelberg, University of Manchester</i> Optimisation of ZERON 100X super duplex solid welding wire composition to meet a PREN of 42 minimum and enhance weld pitting corrosion resistance. <i>Dr Glenn Byrne, NeoNickel Blackburn Ltd</i> Effect of backing gas composition during TIG welding of Aperam superduplex DX2507 (1.4410, UNS 32750) on root surface microstructure and pitting corrosion resistance. <i>Jerome Bridel & Dr Vincent Vignal, Aperam</i> Weld microstructure in duplex stainless steels using a novel waveform-gas combination. <i>Andres Acuna, Lincoln Electric</i>
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15.30 – 16.00 Coffee break

<p>16.00 Fabrication and manufacturing processes Moderator: Kasra Sotoudeh</p> <p>This session focuses on how fabrication and downstream processing influence the performance of duplex and superduplex, from forming behaviour to surface damage and hydrogen exposure. Presenters will highlight advances in servo-press formability, strain-based methods for assessing hydrogen embrittlement, and how local grinding can alter properties in cold-hardened tubing.</p> <ul style="list-style-type: none"> Formability improvement of lean duplex stainless steel using servo press motion control. <i>Takuya Sakuraba, Nippon Steel Corp</i> Significance of strain-based quantitative methods for evaluating resistance to hydrogen embrittlement. <i>Kasra Sotoudeh, TWI Ltd.</i> Effect of local surface grinding on the material properties of cold-hardened super duplex stainless steel tubes. <i>Beatriz Calleja, Tubacex</i> Opportunities for using duplex grade 2404 in tank and vessel applications. <i>Claes Tigerstrand, Outokumpu Stainless AB</i> 	<p>16.00 Duplex microstructures: the source of good properties Moderator: Jacko Aerts, <i>dsm-firmenich</i></p> <p>This session examines how phase balance, thermal history, and weld metallurgy shape the microstructure of duplex and super duplex stainless steels, and ultimately their corrosion and mechanical performance. Case studies will cover unusual metallographic observations in welds, isothermal annealing effects in cast S32760, and how austenite stability drives ferrite texture development in sheet products.</p> <ul style="list-style-type: none"> Duplex welds under the microscope – unusual metallographic findings and how to verify them. <i>Elin M. Westin, voestalpine Bohler welding group</i> Effect of austenite phase stability on the formation of ferrite-phase texture in duplex stainless-steel sheets. <i>Ryosuke Hayashi, Nippon Steel Corp</i> Effect of isothermal annealing on phase transformation and corrosion properties of UNS S32760 cast SDSS. <i>S. Sehar, M. Pigato, M. Faraji, I. Calliari, University of Padua, Italy</i>
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5:00 PM – NETWORKING DRINKS ON THE EXPO FLOOR
 6:00 PM – BUSES LEAVE FOR THE NETWORKING DINNER AT THE SS ROTTERDAM



Duplex World Conference, 7 May

10.00 Keynote: Strength and durability: the expanding landscape of duplex stainless steels. Nicole Kinsman , IMOA	
10.30-11.00 Coffee break	
ROOM 1	ROOM 2
<p>11.00 Thick-section products/manufacturing</p> <p><i>Moderator: Yassar Ghanimi</i></p> <p>This session looks at the practical challenges of producing and joining thick-section duplex and super duplex, where heat input, cooling control, and weld procedure qualification become critical. Speakers will compare advanced joining routes, including vacuum electron beam and laser welding, against more conventional approaches, while an end user discusses practical fabrication and reliability concerns.</p> <ul style="list-style-type: none"> • Welding of large wall thickness super duplex stainless steel. <i>Fredrik H. Tranø, Equinor</i> • Potential of Local Vacuum Electron Beam and Laser welding of thick-section duplex stainless steels in industrial applications. <i>Chris Punshon, CVE</i> • Challenges in processing thick-walled (super) duplex from a user's perspective in terms of welding and materials technology. <i>Kai Engler, BUTTING</i> 	<p>11.00 Manufacturing processes</p> <p><i>Moderator: Iris Rommerskirchen</i></p> <p>This session explores how alloy design, casting practice, and thermal history influence the manufacturability and in-service reliability of duplex and super duplex stainless steels. Presenters will discuss composition and casting optimisation in ER2594 billets, sensitisation risks during continuous cooling across product thicknesses, and practical considerations for safely specifying and producing duplex grades.</p> <ul style="list-style-type: none"> • Optimisation of alloy composition and casting conditions to improve surface toughness in ER2594 billets. <i>Shinsuke Ogyu, Nippon Steel Corp</i> • Sensitisation of duplex stainless steels during continuous cooling for different plate and sheet thicknesses. <i>Jan Jonsson, Outokumpu</i> • Manufacturing challenges and the safe use of duplex stainless steel. <i>Torfinn Havn, Ztrong Partner</i> • Short paper: Phase transformation and microstructural evolution of 2205 cast duplex after isothermal aging and hot forging processes, <i>Asma Teghri, Padua University</i> • Short paper: Effect of phase transformation on mechanical and corrosion properties of a 2205 heat-treated cast duplex stainless steel. <i>Farid Ahani, Padua University</i>
12.30 – 14.00 Lunch	
<p>14.00 – 16.00 Panel discussion: Supply chain issues (end user, EPC, material supplier, fabricator, engineering company)</p> <p>With experts representing the supply chain from manufacturers to EPCs and end users, this interactive session tackles issues commonly faced by all. From the availability of grades and product forms, to supply bottlenecks how these can be alleviated.</p> <p>The discussion will feature an extensive Q&A with the audience.</p> <p><i>Moderator: Barinder Ghai, Alleima</i></p> <p><i>Panellists:</i></p> <ul style="list-style-type: none"> - David Farias, Neste - Mark van den Broek, Fluor - Dr Talal Al Nabhani, PDO 	<p>13.30 – 16.30 MASTERCLASS OPEN TO ALL VISITORS: Masterclass on understanding duplex stainless steels</p> <p>This in-depth Masterclass, presented by leading materials experts from the Duplex World Steering Committee, is an extraordinary opportunity to learn from and participate in discussions on some of the most important aspects of using duplexes. Includes:</p> <ul style="list-style-type: none"> - The limits of corrosion resistance and weldability: performance or failure, by and from an end-user perspective. - Microstructure & how to test differences; thermal/thermo-mechanical treatments - Manufacturing: welding, forming (hot and cold), machining - Heat-treatment, requirements and practical aspects - Difference in the wide range of grades - How to handle various product forms (plate, sheet, bar, forgings, pipe, tubing) - Specs and codes, e.g. NORSOK - Case studies from attendants and presenters
16.00 Refreshments and closing	

Meet our sponsors!

Duplex World Conference & Expo 2026 is proudly sponsored by two of the world's leading manufacturers of duplex stainless steel.



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.

Learn more at: <https://www.alleima.com/>



Outokumpu contributes to a more sustainable world by producing stainless steel from recycled material. We have the highest recycled content and the lowest carbon footprint in the market, allowing our customers to reduce their carbon footprint. Duplex stainless steel was developed by Outokumpu more than 90 years ago. Since then the company has produced more than half the world's consumption of duplex. Outokumpu duplex stainless steels offer an excellent combination of strength and corrosion resistance. As a result material thickness and costs can be reduced significantly in a wide range of applications. We believe in a world that lasts forever.

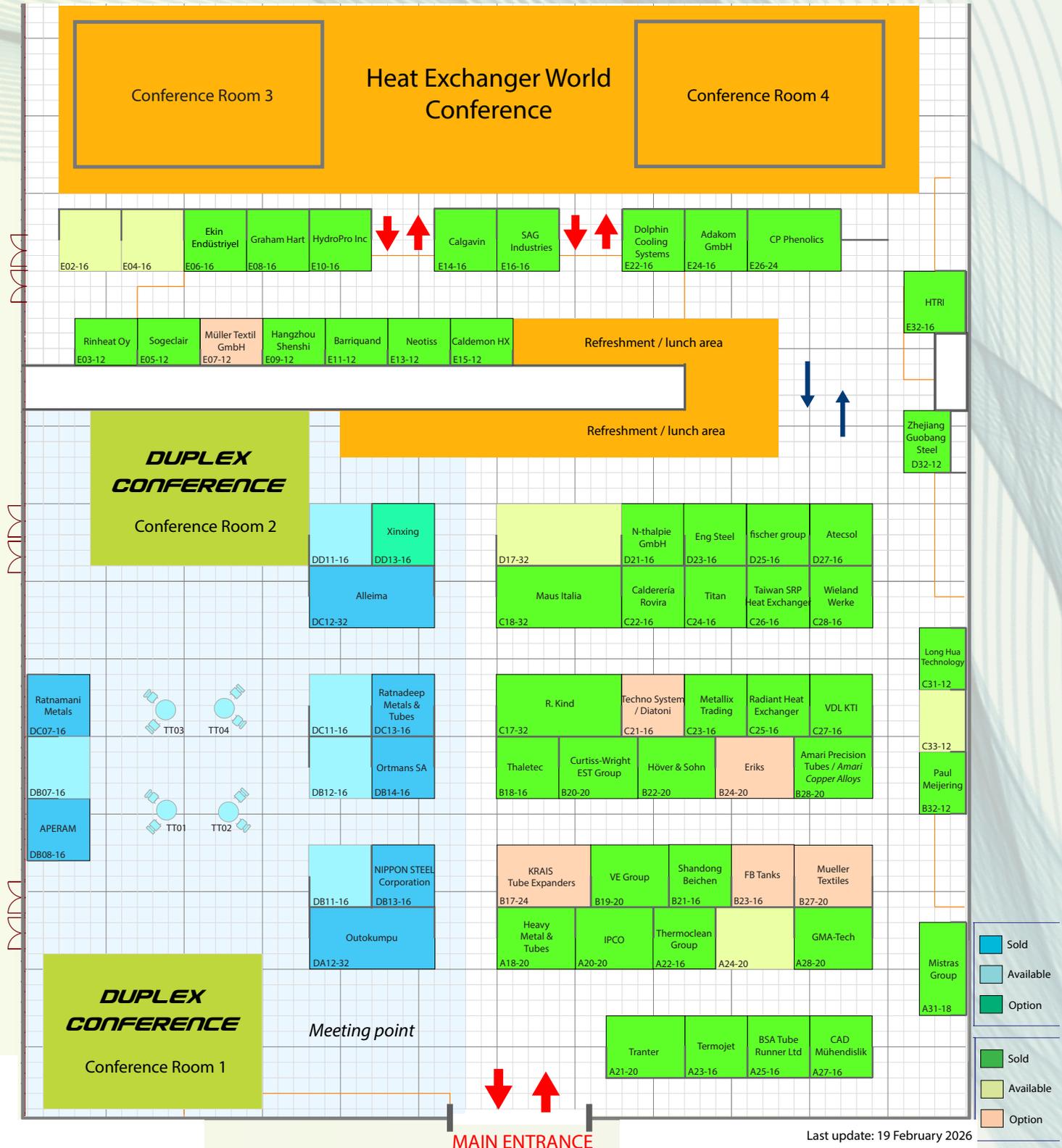
Learn more at: www.outokumpu.com



Heat Exchanger World 2026 is proudly sponsored by



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Last update: 19 February 2026

To book your exhibition stand at Heat Exchanger World OR Duplex World, contact:
Mr Sjoerd Hesseling, s.hesseling@kci-world.com, +31 6309 96476



DUPLEX WORLD EXPO

The Duplex World Expo 2026 is a meeting ground for those working in every field of the stainless steel supply chain. It will be tailored toward providing direct business-to-business and networking opportunities, and will welcome the diversity of global knowledge from exhibitors, visitors and conference delegates.



WHY YOU SHOULD EXHIBIT

Duplex Conference & Expo 2024 brought together more than 1,100 industry professionals, including 250 delegates from 25+ countries, creating unprecedented networking and business opportunities for our 76 exhibitors.

2026 promises:

- Access to a proven audience of dedicated industry professionals
- Direct engagement with high-level global delegates
- Premium networking opportunities with decision makers actively seeking duplex solutions
- Strategic positioning within the international duplex stainless steel community.

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/m²

Corner stand: €375/m²



BOOK A STAND

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

Mr Sjoerd Hesseling
 Email: s.hesseling@kci-world.com
 Tel: +31 630-996-476



JOIN THE CONVERSATION!

If you'd like to be involved in the conference, please contact:

Mrs Joanne McIntyre, Conference Coordinator
 Email: j.mcintyre@kci-world.com
 Tel: +31 630 476 441



CONFERENCE & EXHIBITION REGISTRATION



CONFERENCE TICKETS

Full 2-day Conference Ticket

- 2 days participation in all Duplex World & Heat Exchanger World Europe conference sessions
- All conference proceedings online (password protected)
- 2 days unlimited access to the Duplex World & Heat Exchanger World Europe exhibition
- One form per conference registration to be submitted.

€495

EXHIBITION VISITOR TICKETS

Expo Visitor Pass

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

€30



TWO EVENTS IN ONE LOCATION

Duplex World 2026 will be held right alongside our Heat Exchanger World Europe Conference & Expo! Also held at the Rotterdam Ahoy on 6 & 7 May 2026, Heat Exchanger World Europe is a dynamic and interactive event with a strong focus on personal interaction, coupled with a high-quality technical seminar program. Heat Exchanger World unites heat transfer specialists, researchers, heat exchanger fabricators, suppliers, and end-users in an open and focused forum. One ticket gives access to both events!

For information, see www.heat-exchanger-world-europe.com



Duplex World will be held at the Rotterdam Ahoy event space in Rotterdam, the Netherlands.

Location:
Rotterdam Ahoy
Ahoyweg 10
3084 BA Rotterdam
The Netherlands

