

TUESDAY 18 November

Conference Arena 1

9:15	Opening: Stainless Steel World
9:20	Welcome: Sayee Raghunathan, Saudi Aramco, Saudi Arabia
9:30	Keynote 1: Stainless steels; A misjudged 'Near Utopian' materials family?, Tim Collins, worldstainless
10:00	Keynote 2: Chinese perspective on stainless steel market, Zhang Wei, CITIC Metal
10:30	Coffee & Expo Break

Conference Arena 1

Conference Arena 2

	Paper Session: Corrosion - Seawater and pitting <i>Session Chair: Markus Kind, Rolf Kind GmbH</i>	Paper Session: Additive manufacturing <i>Session Chair: John Houben, ExxonMobil Technology and Engineering</i>
11:00	Hydrogen induced stress cracking of a 25Cr super duplex subsea umbilical termination assembly with unfavorable grain orientation - Hans Martin Jähren, Equinor	High performance additive manufacturing of 316L components with cooling channels using DED-arc - Dr. Lukas Oster, Plasma Additive
11:25	Field exposure of duplex stainless steel in the marine environment: the impact of the exposure zone - Saman Hosseinpour, Outokumpu Nirosta GmbH-Krefeld	Cold rolled vs 3E printing stainless steels: a comparative analysis - Muhammad Dr. Muhammad Yasir, FORVIA
11:50	Corrosion behavior of S32202 (EN 1.4062) lean duplex stainless steel in natural seawater: a comparison with more commonly used grades - Mohammad Hassanzadeh, French Corrosion Institute/KU Leuven University	A comparative study on the passivation mechanisms and industrial applications of SLM-fabricated and ultrapure 316L SS - Yong Hua, Zhejiang JIULI Hi-Tech Metals
12:15	Carbon alloying boosts austenitic stainless steel to achieve high corrosion resistance and low cost application - Zhiyu Wang, Baoshan Iron & Steel	
12:45	CBAM Conversations - From Policy to Practice (12:45-13:15 at Conference Arena 2) - OPEN TO ALL How will the EU's Carbon Border Adjustment Mechanism (CBAM) reshape trade and climate policy? Explore CBAM policies, practical implementation strategies, and compliance insights. Experts: Tom Lord, REDSHAW Advisors / Christophe Lagrange, EURANIMI / Gabriel Rozenberg, CBAMBOO	
	Lunch & Expo Break	
	Paper Session: Corrosion - Testing <i>Session Chair: Jacko Aerts, dsm-firmenich</i>	Paper Session: Surface/material optimization <i>Session Chair: Saman Hosseinpour, Outokumpu</i>
14:00	SAF™ 3006: a super duplex stainless steel with enhanced mechanical and corrosion resistance for the chemical and petrochemical industries - Bernardo Siza Vieira, Alleima	A comparative study of heat resisting stainless steels for application up to 1000°C - Malo Carradot, Aperam Research Center
14:25	Corrosion screening of stainless steels – exploring the application of inspection & corrosion assessment tags - Dirk Engelberg, The University of Manchester	Waste minimization in the stainless-steel pickling processes - Marco Zavattoni, Condoril Stainless
14:50	Handheld analytical technologies for instant chemical analysis and alloy grade identification of stainless steel - Mathieu Bauer, Thermo Fisher Scientific	Optimal surface preparation to maximize corrosion resistance of high-alloyed materials - Václav Šefl, University of Chemistry and Technology in Prague
15:15	The super austenitic grade Sanicro® 35 (UNS N08935) proving its position as a potential nickel alloy substitute for demanding process industry equipment - Claes Tigerstrand, Outokumpu	Coated stainless steel as a cost-effective and functional alternative for bipolar plates in PEM electrolyzers - Raquel Rodríguez, TUBACEX INNOVACION
15:40	Short Break	
	Paper Session: Welding <i>Session Chair: Iris Rommerskirchen, Rommerskirchen GmbH</i>	Paper Session: AI and automation <i>Session Chair: Peter van Gansewinkel, Brück</i>
15:55	Study of PWHT on weld metal of the newly developed filler metal FM 825 CTP (UNS N08827, ERNiFeCr-4) - Martin Wolf, VDM Metals International	Microstructural analysis of stainless steel in aircraft landing gear - Prerna Sudera, Thermo Fisher Scientific
16:20	Optimization of mechanical property and corrosion resistance of QN austenitic stainless steels by Nb alloying technology - Gao Fei, Northeastern University of China	Practical applications of AI in sustainability disclosure processes and beyond - Galina Donnik, beSirius
16:45	Weldability and corrosion performance of the new Aperam 316A (EN 1.4682) – a plug-and-play alternative to 316L stainless steel - Bertrand Petit, Aperam Research Center	Unlock efficiencies in 2026: Why you need to optimise people, process, and products with AI - Tim Eschert, Fero Labs GmbH
17:10	End of the first day	

Join the Sustainability Day and find...



INSPIRATION FROM SPACE

Discover how aerospace innovation is pushing boundaries in material science and driving change in stainless steel production.

SUSTAINABILITY FROM ORBIT

Hear Dr. Kuipers' personal story and his call to action for sustainable industry – backed by a truly planetary perspective.

INDUSTRY INNOVATION

Learn how space technologies can influence smarter, cleaner and more efficient manufacturing.

THE SUSTAINABILITY DAY IS SPONSORED BY



SUPPORTED BY



WEDNESDAY 19 November – Sustainability Day

Conference Arena 1

9:15	Keynote 3: Opportunities for stainless steel in Carbon Capture and Storage (CCS), Marc Wilms, Shell
9:45	Keynote 4: QuesTek Innovations uses Integrated Computational Materials Engineering (ICME) to deliver breakthrough burn-resistant alloys for reusable rocket engines, Jason Sebastian, QuesTek
10:15	Coffee & Expo Break

Conference Arena 1

Conference Arena 2

	Paper Session: Energy transition solutions <i>Session Chair: Raymond Cordewener, R. Cordewener Management & Consultancy</i>	Paper Session: Aerospace <i>Session Chair: Sayee Raghunathan, Saudi Aramco</i>
10:45	Corrosion design of liquid CO ₂ evaporators (vaporizers) - Jan-Willem Rensman, Fluor BV	The influence of DP process on the microstructure and mechanical properties of Inconel 718 alloy - Helen Cao, CSM Tech
11:10	Development of high strength austenitic stainless steels for LH ₂ storage applications - Ali Smith, Rina Consulting – Centro Sviluppo Materiali SpA	Sustainable stainless steel in aerospace & aviation - Hilal Karakaya, Outokumpu Nirosta GmbH
11:35	Cryelso™201LN: A candidate for hydrogen transport applications - compatibility with ammonia - Sarata Cissé, Industeel / ArcelorMittal	Nadcap - What is it? What can it do for you? - Richard Blyth, Nadcap

Lunch & Expo Break

Join the Sustainability Expo Forum – OPEN TO ALL



The Sustainability Expo Forum is an open-access forum hosted by sustainability leaders to inspire and enlighten attendees about innovative sustainability initiatives, best practices, and the critical role that business plays in creating a sustainable future. And also discover how aerospace innovation is pushing boundaries in material science and driving change in stainless steel production.

	Paper Session: Ammonia cracking <i>Session Chair: Jan-Willem Rensman, Fluor</i>	Paper Session: Aerospace / Towards a sustainable future <i>Session Chair: Barinder Ghai, Alleima</i>
13:15	Nitridation resistance of Ni-based alloys in ammonia cracking environment - Norifumi Kochi, NIPPON STEEL	Material Selection for aircraft applications “from stainless steel alloy 50 over nickel alloy 718 to titanium grade 5” - Ingo Stiebe, Harald Pihl
13:40	Ammonia nitridation resistance of Ni-based alloy - Yutaro Katsuki, Maruichi Stainless Tube	Decarbonisation Roadmap: from Process Innovation to Sustainable Raw Materials - Carlo Moretti, Aperam
14:05	The next generation of metal protection: Shielding metals in ammonia environments - Torbjörn Lindquist, TerraBarrier	Materials science: Driving decarbonisation efforts - Håkan Sundström, Alleima

Break – Move to Auditorium

Auditorium

Special Guest - Dr. André Kuipers Keynote

Technology, Innovation, Sustainability, the Future – and Beyond

Dr Andre Kuipers will share powerful insights on innovation in extreme environments and explore how the unique challenges of spaceflight can drive technological innovation, particularly in the energy and materials sectors, and how they can be applied to building a more sustainable industry here on Earth. ESA astronaut Dr Andre Kuipers, the first Dutch astronaut to fly two successful space missions, will deliver a special keynote speech linking space technology with the urgency of sustainability on Earth.

Sustainability Networking Reception – with Dr. André Kuipers in the Expo Hall

STAINLESS STEEL WORLD SOCIAL EVENING

THURSDAY 20 November

Conference Arena 1

10:00	Keynote 5: The Role of The Welding Institute in ensuring the integrity of welded corrosion resistant alloys: past, present and future - Paul Woollin, TWI
10:30	Keynote 6: High-alloys for nuclear fusion application, Alex Martin, ITER
11:00	Coffee & Expo Break

Conference Arena 1

Conference Arena 2

	Paper Session: Fabrication & material selection <i>Session Chair: Hua Yong, Jiuli</i>	Paper Session: Ferritic stainless steels <i>Session Chair: Sunday Okoro, GRUNDFOS</i>
11:30	Tensile properties of TRIP type lean duplex stainless steel - Naoki Hirakawa, NIPPON STEEL	Moisture separator reheater (MSR) tubes in ferritic stainless steel: Manufacturing process and non destructive testing - Julien Burgue, NEOTISS
11:55	Lightweight stainless steel tubing for high-pressure fuel systems - Polina Kazarina, CENTRAVIS Production Ukraine	Smart niobium alloying as an enabler for high-temperature performance of a new ferritic stainless steel (Therma 4622Nb®) - Caio Pisano, CBMM / Niobium and Hilal Karakaya, Outokumpu
12:20	Machinability analysis of 304L stainless steel hollow bars - Karim Mahjoub, DMV	Microstructural Evolution under different hot rolling conditions of Nb-Bearing High Chromium Ferritic Stainless Steel - Caio Pisano, CBMM / Rafael Penedo, Aperam South America
12:45		Material-appropriate welding of ferritic steel tubes - Laura Trescher, Schoeller Werk

Close