

Stainless Steel World Japan 2021 Preliminary Conference Timetable

February 16th & 17th 2021

Tokyo Metropolitan Industrial Trade Center - Hamamatsuchokan, Japan

Organized by: KCI Publishing
As of 7 August 2020

Day 1 (16 February)	
9:45-10:00	Opening and Welcome Thijs Elshof, KCI Publishing
Presentations	Moderator: Masao Nakahara, Asahi Kasei Corporation
10:00-10:30	Development of Stainless Steels – Past, Present and Future Stainless steel alloys have been undergoing development ever since their first commercialization around 1912. That has involved both alloy development and process development, and these are still occurring today, although in different ways. Both the past and present developments will be documented and put into perspective, along with technologies still in their infancy such as Additive Manufacturing and Integrated Computational Materials Engineering. The effect of these changes on the current worldwide stainless steel industry will be explored. Speaker: Gary Coates, Nickel Institute, Canada
10:30-11:00	Current Status and Main Activities of the Stainless Steel Industry in Japan Presenter: Masaharu Uzawa, Japan Stainless Steel Association
11:00-11:30	Coffee Break
Presentations	Moderator: Kiyo Ichikawa, KCI Publishing
11:30-12:00	Japanese National Resilience Measures and Case Studies for using Stainless Steels (Tentative) Presenter: Naoto Hiramatsu, NIPPON STEEL Stainless Steel Corporation
12:00-12:30	Quality Aspects of Heat Treatment for Stainless Steel Quality aspects like holding- and soaking time, heat treatment- and quenching temperature as well as transfer time from furnace to quenching are driven by the actual chemical composition of the stainless-steel grade and its product dimensions. Especially Duplex, Martensitic and Precipitation hardened grades need special considerations. Welding of these grades is also a local heat treatment. Presenter: Raymond Cordewener, R. Cordewener Management & Consultancy BV, The Netherlands
12:40-14:00	Lunch
14:00-14:25	Paper Session: Welding Chair: Gen Nakayama, IHI
	Welding Technology of Stainless Steel Products for Hitachi Nuclear Power Plant Presenter: Shoh Tarasawa, Hitachi-GE Nuclear Energy
	Lean Duplex SUS application to sluice gates Presenter: Keisuke Torigata, IHI
15:00-15:25	Paper Session: Performance Chair: Mamoru Nagao, Maruichi Stainless Tube Co., Ltd.
	Stainless Steel Pipes for Automotive Fuel Injection Stainless steel pipes are beginning to be used for fuel injection systems of direct injection gasoline engines. Introduce characteristics and results of performance study. Presenter: Yosuke Yonenaga, Maruichi Stainless Tube Co., Ltd.
	Product Application Issues with the Additive Manufacturing of 316L Stainless Steel The material characteristics of 316L stainless steel formed by the EBM (Electron Beam Melting) method with a metal additive manufacturing will be looked at. This presentation will also address examples of improvement studies by changing the beam setting and the idea of post-processing technology. Presenter: Hayao Sakaguchi, Ebara Corporation
15:50-16:20	Coffee Break
16:20-17:50	Workshop: Process Improvement by New Materials Moderator: Masao Nakahara, Asahi Kasei Corporation, Japan Panelist : <ul style="list-style-type: none"> - Cast high alloy high performance metallic materials for demanding applications Speaker: Shankar Venkataraman, Schmidt + Clemens GmbH + Co. KG, Germany - Development of duplex stainless steel for urea plant Speaker: Ryo Okubo, Toyo Engineering Corp. - JGC Corporation
18:00-20:00	Network Reception

Day 2 (17 February)	
Presentations Moderator: So Aoki, Japan Atomic Energy Agency	
9:30-10:00	Application Limits of Stainless Steels – Localised Corrosion versus Stress Corrosion Cracking Exposure limits and thresholds material conditions for critical application of stainless steels are reviewed and discussed. This presentation aims to provide an understanding of the inherent relationship between environmental exposure parameter, the presence of applied and residual stress, and microstructure engineering treatments. Typical examples and innovative ways to extend component lifetime are introduced. Presenter : Dirk Engelberg, The University of Manchester, UK
10:00-10:30	Presentation to be announced
10:30-11:00	Coffee Break
Presentations Moderator: Kiyoo Ichikawa, KCI Publishing BV	
11:00-11:20	Material selection for chemical plant, focused on stainless steel Some cases of stainless steel selection for chemical equipment are introduced, and some requests from owner side material engineer to the suppliers are also mentioned. Presenter: Masao Nakahara, Asahi Kasei Corporation, Japan
11:20-11:45 11:45-12:10 12:10-12:35	Paper Session: Duplex Chair: Bernd Beckers, Outokumpu, Germany
	Forta FDX 27 – The formable duplex stainless steel for plate heat exchangers Presenter: Claes Tigerstrand, Outokumpu, Sweden
	NSSC 2120 & 2351 - Advanced Grades of Duplex Stainless Steel with Remarkable Improvement in Welding Property Presenter: Shinji Tsuge, NIPPON STEEL Stainless Steel Corporation
	SAF 2707 HD – Advanced Duplex Metallurgy Presenter: Vikram Pandit, Sandvik Materials Technology, APAC
12:35-14:00	Lunch
14:00-14:25 14:25-14:50	Paper Session: Heat Resistance / High Temperature Application Chair:
	Centrifugally cast heat resistant castings for thermal processing applications Speaker: Shankar Venkataraman, Schmidt + Clemens GmbH + Co. KG, Germany
	ESRR: A New Faster, More Efficient and Reliable Process for High Temperature Materials Speaker: Daniel Cattin, Valbruna, Italy
14:50-15:50	Workshop: New Technology Moderator : Raymond Cordewener, R. Cordewener Management & Consultancy BV, The Netherlands Panelist : <ul style="list-style-type: none"> - SANICRO 35 – A new Ni-Cr-Mo Alloy for very aggressive corrosive environments, Speaker: Vikram Pandit, Sandvik Materials Technology, India - UNS.S34752 with superior sensitization resistance and creep rupture strength to UNS.S34709 (347H) Speaker: Takahiro Osuki, NIPPON STEEL Corporation - Development of 7.5Mo Nickel Base Alloy for Both High Chloride and Sulfuric Acid Environments (Tentative) Speaker: Murotsune Yabe, Nippon Yakin Kogyo
15:50-16:00	Short Break
16:00-17:00	Consult the Stainless Steels Doctors Moderator : Masao Nakahara, Asahi Kasei Corporation Doctors : <ul style="list-style-type: none"> - Dirk Engelberg, The University of Manchester, UK - Gary Coates, Nickel Institute, Canada - Takahiro Osuki, NIPPON STEEL Corporation - Claes Tigerstrand, Outokumpu, Sweden
17:00-17:10	Closing