Wednesday 20 October

Registration – Foyer area
09.00 – 13.00 Registration

Ballroom A
Opening Session
13.30 Opening by Chairman Cathy Shargay, Fluor Daniel

Plenary Session
Chair: Cathy Shargay, Fluor Daniel
13.45 Technology roadmap for materials of construction for the chemical and allied process industries, Emory Ford, Materials Technology Institute, United States of America (P0406)
14.15 Crevice corrosion testing of stainless steels in natural and synthetic biochemical seawater – results from an round robin test involving 19 laboratories, Trond Rogne, SINTEF Materials Technology, Norway (P0446)
14.45 Supermartentics, Jacques Charles, Ugine & ALZ Groupe Arcelor, France (P0473)

15.15 Coffee & Expo Break, Ballroom

Concorde A
Paper session 1: Titanium
Chair: Ron Schutz, RMI, USA
15.45 A thirty year service exam: titanium tubed surface condensers, Dennis Schumerth, VALTIMET, United States of America (P0403)
16.10 A trio of lower-cost ruthenium-enhanced titanium alloys for resisting severe chemical service, Ronald Schutz, RMI Titanium Company, United States of America (P0414)
16.35 New generation of titanium clad steel, Harry Sildva, Sigmabond Technologies Corporation, Canada (P0427)
17.00 Requirements of inert gas shielding and purging for successful titanium welding, James A. McMaster, MC Consulting, United States of America

Concorde B & C
Paper session 2: High Temperature
Chair: Sheldon Dean, Dean Corrosion Technology
15.45 Nickel alloys solution to economic losses due to “Metal Dusting” in refineries, CPI and petrochemical industries, Dinesh C. Agarwal, ThyssenKrupp VDM Technologies Corp, United States of America (P0401)
16.10 New developments in stainless steels for high temperature services in petroleum refining, Cathleen A. Shargay, Fluor Daniel Inc, United States of America (P0458)
16.35 Managing high temperature corrosion data in the 21st century, Randy C. John, Shell Global Solutions, United States of America (P0470)
17.00 Heat resistant cast alloy steels in the petro-chemical industry, Stan Almendro, Steloy Castings, South Africa (P0471)

Forum
Paper session 3: Welding I
Chair: John Lippold, Ohio State University
15.45 Laser materials processing for offshore application, Christian Walz, Fraunhofer USA Inc CSLP, United States of America (P0410)
16.10 The influence of strain induced martensite on the delayed cracking phenomenon, Marta Ribeiro dos Santos, Universidade Federal de Minas Gerais, Brazil (P0460)
16.35 Investigation of chromium-free filler metals for welding of austenitic stainless steels, John C. Lippold, Ohio State University, United States of America (P0437)
17.00 Improved corrosion resistance of super duplex weldments, Nate Ames, Edison Welding Institute (EWI), United States of America (P0463)
18.00 Stainless Steel World Reception, Doubletree Hotel

Advance Conference Programme
Please note that this advance conference programme is preliminary and that the organisers reserve the right to make alterations. The final programme will be distributed at the conference.

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Thursday 21 October

Concorde A

Paper session 4: Duplex I
Chair: Ralph Davison, TMR

08.00  Point counting of intermetallic phase precipitates in duplex stainless steels, Andrea Gregori, TWI Ltd, United Kingdom (P0404)

08.25  Evaluation of superduplex consumables in supermartensitic pipe, Vincent van der Mee, Lincoln Smitweld BV, The Netherlands (P0409)

08.50  Alternative filler metals for Duplex (DSS) / Superduplex Steels (SDSS), Herbert Heuser, Böhler Thyssen Schweisstechnik GmbH, Germany (P0405)

09.15  Microstructure and impact properties of diffusion bonded UNS S31803 duplex stainless steel, Xiuqing Li, Heatric Ltd, United Kingdom (P0416)

09.40  Stress relief treatments of duplex stainless steel UNS S32205, Mats Liljas, Outokumpu Stainless AB, Sweden (P0431)

09.40  Phase transformations during welding and post weld heat treatment of supermartensitic stainless steel, John C. Lippold, Ohio State University, United States of America (P0447)

Forum

Paper session 6: Oil & Gas
Chair: Lilian Skoksberg, Shell

08.00  Socrates: A comprehensive framework to select corrosion resistant materials for oil and gas applications, Sridhar Srinivasan, InterCorr International, Inc, United States of America (P0452)

08.25  A new method for producing Bi-Metal CRA lined pipe, Paul Montague, Cladtek International Pty Ltd, Australia (P0420)

08.50  Bimetallic pipe using AL-6XN® (UNS N08367) alloy, John J. Dunn, Allegheny Ludlum Corporation, United States of America (P0411)

09.15  Stainless steels for controlling erosion-corrosion, Anne Neville, University of Leeds, United Kingdom (P0417)

09.40  10 Years experiences with BuBi –Pipes – New progresses, Iris Rommerskirchen, BUTTING, Germany (P0456)

10.00 Coffee & Expo Break, Ballroom

Concorde A

Paper session 7: Chemical I
Chair: Ed Naylor, Akzo Nobel

10.30  Failure analysis of the HCL Column InterCooler: Cause, effect, results and economical solution for severe media, Mohsen Zaher, Egyptian Petrochemicals Co., Egypt (P0412)

10.55  Development of new duplex stainless steel for urea plants, Yoshimi Yamadera, Sumitomo Metal Industries Ltd, Japan (P0432)

11.20  Effects of oxidizing impurities on the corrosion performance of nickel alloys in hydrochloric acid solutions, Nacer Sabrina Meck, Haynes International Inc, United States of America (P0448)

Concorde B & C

Paper session 5: Welding II
Chair: John Lippold, Ohio State University

08.00  The effect of welding gas composition on the corrosion of superduplex stainless steel welds, Roger Francis, Weir Materials & Foundries, United Kingdom (P0465)

08.25  Explosion welding, technical growth and commercial history, George A. Young, DMC Clad Metal Div - Dynamic Materials Corp, United States of America (P0439)

08.50  Post Fabrication cleaning: benefits and practicalities, Chris Baxter, Outokumpu Stainless Ltd, United Kingdom (P0442)

09.15  Stainless steel arc welding consumables for cryogenic applications, Graham Holloway, Metrode Products Ltd, United Kingdom (P0449)

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More corrosion resistant high-alloyed metallic tank materials for transport of dangerous goods and water-polluting substances, Ralph Baessler, BAM Bundesanstalt für Materialforschung und -Prüfung, Germany (P0455)

**Concorde B & C**

**Paper session 8: Deepwater**

**Chair:** Jim Ibarra, BP

10.30 Corrosion resistance options for severe oilfield applications, Manuel N. Maligas, FMC Corporation United States of America (P0422)

10.55 The evolution and optimization of high performance alloys for oil exploration and production applications, T. DeBold, Carpenter Technology Corporation, United States of America (P0429)

11.20 Improved corrosion resistance of super duplex weldments, Nate Ames, Edison Welding Institute (EWI), United States of America (P0462)

11.55 Clad pipes for the oil and gas industry – Manufacturing and applications, R. Schimboeck, Voestalpine Grobblech GmbH Co KG, Austria & Thilo Reichel, Eisenbau Kraemer, Germany (P0435)

**Forum**

**Paper session 9: Metallurgy**

**Chair:** Jacques Charles, Arcelor

10.30 Development of high strength 18Cr-9Ni-Nb-V-W-N austenitic stainless steel tube for thermal power boilers, Tetsuo Ishitsuka, Nippon Steel Corporation - Steel Research Laboratories, Japan (P0423)

10.55 Recrystallization behaviour of cold rolled dual phase ferritic stainless steel and its effect on formability, M.A. Zapata, Thyssenkrupp Mexinox, Mexico (P0451)

11.20 Development of ferritic stainless steel sheets with excellent deep drawability by (111) recrystallization texture control, Yoshihiro Yazawa, JFE Steel Corporation, Japan (P0418)

11.55 A new concept of strengthening austenitic stainless steels, Nuri Akdut, OCAS nv, Belgium (P0472)

**Concorde A**

14.00 – 16.00

**Workshop: Rouging**

**Moderator:** Chak Wong, Bayer

**Concorde B & C**

14.00 – 16.00

**Workshop: Refining**

**Moderator:** Cathy Shargay, Fluor Daniel

**Forum**

14.00 – 16.00

**Workshop: New OHSA/European Limits on Welding Fumes**

**Moderator:** Elisabeth Torsner, Outokumpu Stainless

16.00 Coffee/Tea & Expo Break, Ballroom

19.30 Stainless Steel World dinner, Doubletree Hotel pre-registration required
Masterclass: Upstream – Oil & Gas
9.00 – 16.00
Master: Hans van der Winden, Fairwind Materials, The Netherlands

Masterclass: Chemical
9.00 – 16.00
Master: To be confirmed

For more information, see detailed programme in Masterclass section on page 12-13. Pre-registration required.

Friday 22 October

Concorde A

Paper session 10: Chemical II
Chair: Ken Baumert, Air Products & Chemicals
08.00 Alloy 33: A versatile alloy for oxidizing mineral acids and other demanding corrosive applications, Larry Paul, ThyssenKrupp VDM USA Inc., United States of America (P0464)
08.25 Utilizing clad piping to improve process plant piping integrity, reliability and operations, Bhaven Chakravarti, KLAD Manufacturing Company Ltd, United States of America (P0421)
08.50 Using real-time, on-line corrosion and process control to validate materials selection in a primarily organic process, Dawn Eden, InterCorr International, Inc, United States of America (P0457)
09.15 Stainless steel: From RBI to asset management, Neil S. Henry, ABB Eutech Ltd., United Kingdom (P0477)

Concorde B & C

Paper session 11: Duplex II
Chair: Ralph Davison, TMR
08.00 Production of heavy plates in superduplex stainless steel grades, Lionel Coudreuse, Industeel, France (P0466)
08.25 Welding super duplex stainless steels with Ni base filler materials: recent development of new consumables, Bernard, Bonnefois, Industeel, France (P0467)
08.50 Overmatching superalloy consumable inco-Weld® 686CPT® broadens its applications to include welding super austenitics and super duplexes, Paige Martin, Special Metals Welding Products Co, United States of America (P0468)
09.15 Advantages and application of a centrifugally cast super duplex stainless steel cylinder, Tyler Nooyen, Spuncast Inc, United States of America (P0443)

Forum

Paper session 12: Food
Chair: to be confirmed
08.00 Stainless steel for corrosion control in the food processing industry, Benjamin Valdez Salas, Universidad Autónoma de Baja California (Inst. de Ingeniería), Mexico (P0402)
08.25 A Study of the antibacterial property of Cu-containing type 430 stainless steel, Meng-Hsin Hsieh, Yieh United Steel Corporation, Taiwan, ROC (P0424)
08.50 Application of a super austenitic stainless steel “NAS254N” for soy sauce plants, Yutaka Kobayashi, Nippon Yakin Kogyo Co Ltd, Japan, (P0425)
09.15 Global value added solutions for polishing and grinding non-corrosive specialty metals, Fred Kurpiel, Imeas Inc, United States of America (P0445)
09.40 Coffee & Expo Break, Ballroom

Concorde A

Workshop: Desalination & Waste Water
Moderator: Keith Briegel, Rohm & Haas
10.10 – 12.10
Concorde B & C
10.10 – 12.10
Workshop: Reduce cost by dropping the alloying surcharge through proper alloy design
Moderator: Jacques Charles, Arcelor

Forum
10.10 – 12.10
Workshop: STT/Innovative Welding
Moderator: John Lippold, Ohio State University

Concorde B & C
Closing session
Chair: Cathy Shargay, Fluor Daniel
12.15  Use of stainless steel in LNG plants, Sonny Singh, Bechtel Corporation, United States of America (P0408)
12.40  Official closing by Cathy Shargay, Fluor Daniel

13.00  Boxed lunches can be picked up in the Ballroom

13.30  Departure from Doubletree Hotel to Golf Tournament sponsored by Tubacex and Outokumpu Stainless. Pre registration required.

Masterclass Section
Advance Programme Masterclasses

Masterclass: Upstream – Oil & Gas
San Felipe Room
Thursday 21 October
Master: Hans van der Winden, Fairwind Materials Consultancy, The Netherlands
Mr. H. van der Winden graduated in metallurgy at Delft University in 1969 and has since been employed by Shell in various materials and corrosion related positions for a period of over 30 years. Although his experience covers essentially the materials problems of all oil-, gas- and chemicals plants, the majority of his time was spent on upstream oil- and gas activities. His last positions included to act as the head of Materials/Corrosion for the Shell operating companies Shell Expro in Aberdeen and NAM in Assen. Since mid 1999 he is active as an independent materials consultant.

The main purpose of this masterclass is to develop the analytical skills of the participants by exposing their current way of working to the critical views of the master and the peers present. The final aim is to improve the ability to solve complex materials problems, particularly in the oil and gas industry, in a more reliable way. You will gain from the many years-long experiences from the master but also from your peers who will actively be involved in critically reviewing the material problem cases presented. The benefits for you and your organisation will be:
• better equipped to solve complex material problems
• extended, safe plant life
• fewer plant turnarounds and fewer unscheduled shut-downs
• predictable and controllable maintenance costs
• extension of your personal peer network

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