



Call for Papers

Woodlands Waterway Marriott Hotel and Convention Center, Houston, TX, USA, 9-10 September 2008

Welcome all,

It is a great pleasure to invite you to the Stainless Steel World America 2008 Conference and Exhibition in Houston. Everyone with an interest in metallic materials will find informative exhibits, presentations, interesting people and engaging discussion.

Everyone from students to experienced professionals will find opportunities to learn from experts in their areas of interest, as well as to engage them in lively and informal discussion at the numerous networking opportunities. Professionals from end-users, suppliers, academia and those between will be there to share their knowledge and experience. What a great opportunity to learn from people of varied backgrounds who share a common area of interest!

The economic and industrial environment in which we work has been buffeted by rapid change, and the pace of change continues unabated. The movement of industrial growth to less developed parts of the world and the rate of growth in those regions has changed how we do our jobs, and presented us with challenges that force themselves to the front of our list of concerns. Those are challenges that we can help each other to address.

Your SSW Steering Team will endeavour to organize a program which covers a broad scope of interest. This includes how industry is addressing challenges such as tightened metal supplies, erratic prices, sourcing from new suppliers in remote geographic regions, and cutting costs on projects to keep them viable. We expect many excellent papers describing how industry leaders are addressing these and other challenges. We solicit your participation in that activity. You will find it interesting and rewarding.

Gene Liening - *The Dow Chemical Company, Chairman Stainless Steel World America 2008 Conference & Expo*



Stainless Steel World needs you

Only with input from experts in the field will the Stainless Steel World America 2008 Conference again be a success. The Stainless Steel World team will pull out all the stops to provide the stainless steel industry with a top-rate event. However, without high-quality papers on current market issues like trends in production, distribution and application of corrosion resistant alloys, application and fabrication techniques, repair and lifetime extension and the availability of grades and product forms, there will not be a conference. So, the Steering Committee would like to encourage you to start sending in paper proposals right away. Read some of the helpful hints on page 2 and reasons why you should present a paper on page 3. It will be an interesting and rewarding experience.

Don't wait with submitting your abstract to Ms Simone Vermoolen, Conference Secretary, at ssw2008.conf@kci-world.com or call + 31 575 585 279 for further information.



Mission Statement

Stainless Steel World America 2008 Conference & Expo offers an international platform for materials and corrosion professionals from a variety of industries with a clear goal to optimise the application of corrosion resistant alloys (CRA's) in terms of safety, performance, reliability and cost, and to increase awareness and appropriate use and selection of CRA's and related equipment around the world.

Excellent networking opportunities

The Stainless Steel World America event offers plenty of opportunities to meet and greet fellow materials specialists from across the globe at the Exhibition, the Conference and of course the Conference Dinner. All conference delegates will have free access to the Stainless Steel World America 2008 Expo, which runs in parallel with the conference. The technical and commercial staff will be pleased to give you an update on the availability of their products. All conference breaks will be in the Exhibition hall, enabling conference delegates to visit the Exhibition during their breaks. If you would like more information about the Exhibition, please contact Mr. Thijs Elshof, phone +31 575 585 290, e-mail ssw2008.expo@kci-world.com



IMPORTANT DATES

Abstract submission deadline: 15 January 2008

Notification of authors: 21 March 2008 • Deadline for final papers: 27 June 2008

Sponsored by:



Credit where credit is due

Stainless Steel World would like to thank the members of the Steering Committee who will select the paper presentations and compile the conference program for the Stainless Steel World America 2008 Conference. This committee will meet several times and thanks to their commitment to the advancement of materials technology in particular, the Stainless Steel World Conference will offer a wide variety of interesting and topical paper presentations. It is a pleasure to work with such a dedicated group of professionals.

STEERING COMMITTEE

Chairman: Gene Liening, the Dow Chemical Company, USA

Members (alphabetical order)

Hira Ahluwalia, Material Selection Resources Inc, USA

Jim Burk, BP America Inc, USA

Gary Coates, The Nickel Institute, USA

Brian Fitzgerald, ExxonMobil Chemical Company, USA

Bill Fort, Shell Global Solutions(US)Inc, USA

Jean-Christophe Gagnepain, ArcelorMittal, France

Steve L. Harrison, Bechtel Cororation, USA

Ken Kirkham, Lyondell Chemical Company, USA

Damian Kotecki, Damian Kotecki Welding Consultants, USA

Denny Lee, Zhejiang Jiuli Hi-Tech Metals, China

Ron Merrick, Fluor Corporation Inc, USA

Ed Naylor, Akzo Nobel Technology & Engineering, USA

Sjef Roymans, Stainless Steel World, The Netherlands

Huub Slijpen, Antonius Vesselheads, The Netherlands

Simone Vermoolen, Stainless Steel World, The Netherlands

Scott Whitlow, DuPont Engineering Technology, USA

Gary Whittaker, Eastman Chemical Company, USA

Conference Topics

The Steering Committee, chaired by Mr Gene Liening welcomes your participation in the Stainless Steel World America 2008 Conference through the submission of papers for oral presentations as well as poster contributions. The papers can be of all relevant kinds, e.g. overviews, case histories backed by supporting data, typical applications, new technologies, failure reports and service experience. The Committee would like to emphasize its special interest in users' experiences. Sales pitches promoting particular products or services will not be accepted.

The following material groups will be extensively covered:

- lean duplex, duplex, super duplex and hyper duplex stainless steels
- martensitic and supermartensitic stainless steels
- austenitic and superaustenitic stainless steels
- ferritic stainless steel
- nickel base and Cu/Ni alloys
- titanium and other reactive materials

The main topics and areas of application will be:

- oil and gas
- chemical and petrochemical
- power generation (nuclear, coal, alternate fuels, FGD)
- offshore (topside, subsea)
- (deep) seawater applications
- ethanol production from corn or other materials
- LNG - production, transportation, storage
- transportation
- pulp and paper
- desalination
- mining and hydro-metallurgical applications
- use of stainless steels in structural applications (buildings, bridges, etc.)
- high-temperature applications
- welding and fabrication
- trends in the stainless steel production, distribution and applications
- trends in the marketplace, pricing, volumes, growth
- trends in the use of different stainless steel alloys
- design and fabrication

The Steering Committee is specifically calling for papers on the following topics:

- Overview of the stainless steel family - lean duplex, duplex, super duplex, austenitic, super austenitic, ferritics, and nickel-base. What alloys fit in which family, equivalent UNS, DIN, tradenames. Common uses for the families.
- Availability of grades
- Material selection
- Availability of raw materials in the future; mining, scrap, and recycling
- Status of capital spending in the process industries. Update on projects, with historical perspective.
- Current economics of stainless steels and nickel alloys, including comparisons to Ti and Zr, including historical perspective and costs not related to alloy content.
- Emerging markets - quality, pricing and impact on e.g. North American and European chemical processing and refining operations
- Pitfalls in sourcing stainless steels from non-traditional suppliers
- Lean austenitics - 200 series stainless steels - fabrication and corrosion resistance in oilfield and refinery environments
- Advances in fabrication of duplex stainless steels to avoid loss of ductility and corrosion resistance.
- Performance of standard duplex grades in corrosion-under-insulation conditions.
- Status of use of lean duplex stainless steels for water services. Case histories, service condition limitations
- Lean and standard duplex vs. painted 304 stainless steel.
- Application and fabrication of lean duplex stainless steels
- Duplex in quarto plates, coils and cut to length products
- Cladding
- Test updates or application of high alloys materials in place of titanium in seawater service
- Ferritic stainless steels in oilfield applications.
- Equipment design: material properties and limitations
- Maintenance, inspection
- Detoriation processes
- Non destructive testing - ultrasonic testing
- Use of modelling or computer simulations to eliminate or reduce NDE of stainless steel (and high alloy) castings.
- Recent trends or learnings in prevention of external stress corrosion.
- Cracking of stainless steel piping and vessels.
- Repair, rejuvenation, and lifetime extension
- Welding for cryogenic service,
- Welding for high temperature service.
- Food and beverage (including pickling, polishing, and cheaper products)
- Pharmaceutical and biotech
- Architecture, Building and Construction
- Learning from Failure Case Histories
- Corrosion under Insulation
- Corrosion Monitoring

IMPORTANT - How to submit an abstract

Please send your abstract to Mrs Simone Vermoolen, Conference Secretary, by e-mail at ssw2008.conf@kci-world.com. Prospective authors wishing to present a paper should submit an abstract of about 300-400 words before 15 January 2008. Mention your name and function, company name and full address details including e-mail address, and title of the paper.

The following selection criteria will apply:

- quality of the contents
- focus on application experience
- informative to a wide audience
- tie-in with the conference subject balance
- technical nature, i.e. non- commercial

The deadline for abstracts is 15 January 2008. Authors will be notified by 21 March 2008 as whether or not their proposed presentation has been accepted. Final manuscripts are due by 27 June 2008. All accepted papers will be available online by 26 August 2008. Conference participation fee's will apply, however authors will receive a reduction of 25% on the conference fee.

Sjef Roymans,
Conference Director Stainless
Steel World America 2008

"Do not miss this wonderful opportunity to share your professional experiences with fellow material specialists from all over the world. As the Conference Director, I am looking forward to welcoming you as speakers to our 2008 Stainless Steel World America event."



Q and A

If this is the first time you wish to submit a paper to a conference, do not find it off-putting. Below are some of the most common queries we get asked.

Q: I've never written a paper before. How do I get started?

A: Take a look at our website for some guidelines on how to write a paper presentation

Q: Why should I send in a paper for the Stainless Steel World America 2008 Conference?

A: Presenting a paper at Stainless Steel World 2008 Conference will help you to profile yourself among stainless steel professionals from all over the world.

Q: Will my paper be published?

A: Yes, your paper will be published in the conference proceedings, and will be available online two weeks before the conference and afterwards.

Q: I am very interested in writing a paper but would like some additional advice.

A: OK not a problem. Contact: John Butterfield, Editor-in-Chief of Stainless Steel World, at j.butterfield@kci-world.com for extra advice about presenting a paper at the conference.



*John Butterfield,
Editor-in-Chief, Stainless Steel World*

Meet New Steering Committee Members



Damian Kotecki

Mr Kotecki holds a doctorate in Mechanical Engineering from the University of Wisconsin, with a minor in Metallurgical Engineering. Mr Kotecki has worked in stainless steel welding electrode development for over 30 years, and holds several patents for stainless steel welding electrodes. He spent 15 years in R&D at Teledyne McKay in York, PA, and the last 18 years in R&D at the Lincoln Electric Company, Cleveland, OH. He has published over 50 technical papers on welding of stainless steels, as well as being co-author of the book *Welding Metallurgy and Weldability of Stainless Steels*.

Mr Kotecki perceives many trends in welding. A major trend is towards higher operating temperatures and pressures in the power generation field, with more severe demands upon stainless steels for creep strength and oxidation resistance at these temperatures.

The biggest challenge ahead, according to Mr Kotecki, is developing filler metals to match weld metal properties at high temperatures to those of stainless steel base metals, without resorting to nickel base alloy filler metals, due to the high cost of nickel. Filler metals are tending to be fully austenitic to optimize high temperature properties, and that brings with it a tendency towards solidification, liquation and ductility dip cracking.

A second major challenge is dealing with severe restrictions on exposure of people to hexavalent chromium in fumes from welding with stainless steel and nickel base alloy electrodes.

Mr Kotecki joined the Steering Committee in hopes of influencing his counterparts in the USA to participate in the conference and to submit high quality papers on topics of interest, especially topics relating to the challenges noted above.



Ken Kirkham

Mr Kirkham is a Senior Advisor in Materials Engineering at Lyondell Chemical Company. He graduated cum laude from Rensselaer Polytechnic Institute in 1979, and holds a degree in Materials Engineering.

Mr Kirkham has spent the last 28 years providing materials and corrosion engineering expertise to oil and chemical companies. He has been the discipline lead since joining ARCO Chemical in 1990. He supports all Company facilities. He consults on all aspects of materials and corrosion control including failure analysis, materials selection for metals & non-metals, corrosion monitoring, coatings, high temperature metallurgy and process corrosion. While working for Chevron, Mr Kirkham worked in various central engineering and manufacturing assignments including stints as a materials engineer in two large refineries in California and Texas. He also spent 2 years working on materials for deep sour gas wells.

When asked about trends in the industry, Mr Kirkham perceives an increased sensitivity to the environment has led to greater efforts to avoid leaks. This has caused a more frequent use of stainless steel tubes (especially duplex stainless steel) in heat exchangers.

The biggest challenges ahead, according to Mr Kirkham, lie in attracting and training young materials engineers to ensure the continued safe operation of the industry.

Mr Kirkham wishes to give back to his profession and industry by helping to plan an important conference. "I am excited at the opportunity to work with the materials and corrosion leaders in our industry."



Bill Fort

Mr Bill Fort holds a PhD in Materials Science and Engineering from the University of Florida. He has gained 32 years of experience as a materials and corrosion engineer with the Shell Oil Company working in the areas of oil refining, chemicals manufacturing, and oil production. His expertise is in process development and corrosion problem solving. Mr Fort is currently working in the area of enhanced oil recovery. Mr Fort has noticed continued pressure to reduce the cost to build and operate facilities while reliability and process safety are still increasingly important. He also perceives a renewed focus on technology development to solve problems and to increase business profitability.

According to Mr Fort, one of the biggest challenges ahead is maintaining the quality of new equipment and facilities that are being designed and constructed in the global marketplace. Another, is developing and retaining personnel with the desired combination of expertise and dedication.

Mr Fort has joined the steering committee because he firmly believes in the benefits that accrue to both his company and to the industry in general from sharing viewpoints, experience and technical information. He would like the conference to result in a clearer understanding by all participants of the issues and challenges facing us, as well as some of the directions that we can go in to make progress.

THE LEADING EDUCATIONAL AND NETWORKING EVENT FOR MATERIALS PROFESSIONALS

Share your experiences in dedicated workshops



Besides paper presentations a workshop program will be part of the conference programme. Practice has shown that the workshop format offers an excellent opportunity for conference delegates to share their own experiences with industry experts and discuss their day-to-day problems in a more informal atmosphere. Most of the workshops will be organised and run by members from either the Steering Committee or experts in the field. Should you wish to contribute to a workshop, however, please do not hesitate to send an e-mail to Simone Vermoolen, Conference Secretary, at ssw2008.conf@kci-world.com.

New - Learning Zones

So-called Learning Zones will be part of the programme in 2008. These Learning Zones facilitate the exchange of information between young professionals with senior industry experts. This successful formula was launched in previous Stainless Steel World Conferences, and attracted over 30 young engineers from major end users per session. The purpose of these learning zones is to offer elementary knowledge of stainless steels and to develop the analytical skills of the participants by exposing their current way of working to the experienced views of moderators and peers. For further information, please contact Simone Vermoolen, Conference Secretary, by e-mail ssw2008.conf@kci-world.com or phone +31 575 585 279.

New - Student Forum

Also Stainless Steel World will facilitate a special Student Forum for students who are involved in research work on corrosion resistant alloys. The Student Forum will be an informal get together where students will be able to show their R & D work under progress that could be of interest to users and/or producers of stainless steels. The format will be a roundtable discussion and a poster session. In particular, it should provide a forum where young student researchers can present their work in progress, and where they can make contact with representatives from the various industries interested in stainless steels, who might be potential employers. The organisers would therefore like to grant students who will be selected for an oral and/or poster presentation free access to the entire conference. For further information, please contact Simone Vermoolen, Conference Secretary, by e-mail ssw2008.conf@kci-world.com or phone +31 575 585 279.

So, what sets Stainless Steel World apart from all other events:

- Independent steering committee guaranteeing high quality programme
- Strong end user input: mainly end users in the committee
- Active participation by means of workshops
- Learning zones for young engineers
- Student Forum involving the research community
- Participation of working groups such as welding committees
- Seminar on market statistics and product-market developments
- An integrated Exhibition, coffee and lunch breaks in the Expo
- Comprehensive social programme, including conference dinner and cocktails



Join us as we gather in Houston, Texas, the heart of the CPI, oil & gas industries of North America

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 **ANTONIUS**
VESSEL HEADS BV

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The Stainless Steel World America 2008 Exhibition will run in parallel with the Conference - a dynamic and international marketplace for professionals in the field of corrosion resistant alloys.

LIST OF EXHIBITORS

- Antonius Vesselheads BV *The Netherlands*
- ATI - Allegheny Ludlum *United States of America*
- Canadoil Group *Thailand*
- DMC Clad Metal Div - Dynamic Materials Corp *United States of America*
- Electralloy *United States of America*
- Ellett Industries Ltd *Canada*
- ESAB Welding & Cutting *United States of America*
- HC Starck Inc *United States of America*
- Industeel USA LLC *United States of America*
- Innov-X Systems Inc *United States of America*
- Jacquet Mid Atlantic *United States of America*
- Nippon Yakin Kogyo Co Ltd *Japan*
- Oxford Instruments Measurement Systems LLC *United States of America*
- Outokumpu Stainless Inc *United States of America*
- PA Inc *United States of America*
- Plymouth Tube Company *United States of America*
- PNP International Group Inc *United States of America*
- RathGibson *United States of America*
- Samuel Son & Co Inc *United States of America*
- Sandmeyer Steel Company *United States of America*
- Sandvik Materials Technology *United States of America*
- Special Metals Welding Products Company *United States of America*
- Stainless Structurals LLC *United States of America*
- Sumitomo Metal Industries Ltd *Japan*
- Thermo Electron/Niton Analyzers *United States of America*
- Tubacex Inc *United States of America*



For the latest floorplan, please check www.stainless-steel-world.net.

If you wish to book a stand, please contact Mr Thijs Elshof, Account Manager, at phone +31 575 585 290 or e-mail t.elshof@kci-world.com

Conference administration

The conference administration is the responsibility of Stainless Steel World, to whom all inquiries should be addressed. For more information please contact:

Conference Programme: Ms Simone Vermoolen, Conference Secretary, phone: +31 575 585 279, e-mail: ssw2008.conf@kci-world.com

Sales Expo: Mr Thijs Elshof, Account Manager, phone: +31 575 585 290, e-mail: ssw2008.expo@kci-world.com

Facilities Conference and Expo: Ms Elisa Hannan, Facilities Manager, phone: +31 575 585 291, e-mail: ssw2008.fac@kci-world.com

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