Advance Program: Wednesday 24 September 2014*

8:30 Registration and welcome coffee

9:45 Opening by Chair Ms Lone Anita Marken, Principal Engineer Materials Technology Statoll ASA

10:00 Plenary 1: Applications of duplex grades - Jacques Charles, Aperam

10:30 Plenary 2: Application of duplex stainless steel for floating LNG, Andrew Barnes (Shell) and Anthony Pearson (SBM Offshore)

11:00 Coffee Break

11:30 Plenary 3: Experience with Duplex in HISC, Stein Fredheim, Principal Engineer, DNV GL

13:00-13:30 Lunch Break

14:00 Workshop 1

○ Lean Duplex

Moderator: Jackio Arnt, DSMM - GMCC
Co-Moderators: Paul-Erik Arreg, Outokumpu & Lars Braek, Stalube

Significant developments in both development, testing methods and use of lean duplex stainless steels have occurred lately. While this workshop will strive for as much interaction between panel and attendees as possible, the panel, representing end users, suppliers and fabricator will arrange kick-off using short presentations on recent developments. Specific new applications – both successful and not - where lean duplex provides as an alternative for austenitic stainless steel as well as carbon steel has been use will be highlighted. The new acceptance testing standard, ASTM A1084, and the development work behind it will be summarized. Finally, the availability of lean duplex material will be discussed. The workshop panel is open for all suggestions to further topics and discussion themes.

16:00-16:30 Speakers Corner in Duplex Club Lounge

16:30 Duplex Club Logo: Cocktails & Awards

Advance Program: Thursday 25 September 2014*

8:30 Welcome coffee

9:00 Plenary 4: Development and application of welding procedures for heavy thick duplex stainless steel manifolds: in the Oil & Gas industry, Rajesh Tika, Larsen & Toubro

9:30 Plenary 5: Creating customer value in the duplex industry, Pekka Erkkila, Outokumpu Oyj

10:00 Plenary 7: Developments in the (European) Stainless Steels market, Marcus Moll, SMR

10:30 Coffee Break

11:00 Workshop 3

○ The Multitude of Duplex Grades

- Pushing the boundaries of duplex grades
- Advantages disadvantages of new grades
- Unnecessarily conservative new standards of duplex i.e. Eurocode
- Duplex stainless steel as a replacement for C-steel
- Application examples, LCC, etc.

Moderator: Ms. Marie Louise Falkland, Outokumpu
Co-Moderator: Ms. Saggi Saedlou, Aperam

Presentation:
Super Duplex Stainless Steel (UNS32750) rolled formed and welded tubes: an innovative solution to address the new technical challenges for umbilicals. Harold Extin, Vaflourex Umbilicals & Henri Romazotti, Total E&P

13:00-13:30 Lunch Break

14:30 Workshop 5

○ Application limits of Duplex

- Safe Operating Windows
- Pitting Cracking Embrittlement
- Mechanical Limits
- HISC

Moderator: Dr Dirk Engelberg, University of Manchester
Co-Moderator: David Uhl, Brück Group

Presentations:
- Localised corrosion versus stress corrosion cracking of duplex stainless steels. Dr. Dirk Engelberg, School of Materials, University of Manchester, UK
- Challenges in the application of super duplex stainless steel offshore umbilical: current status and future challenges. Dr Xueasue An, Techimp Umbilical System, DUCO Ltd, UK
- Experience with Duplex in HDSC Mr. Stein Fredheim, DNV GL (HISC)

Workshop 6

○ Welding

- New Technologies

Co-Moderators: Andrew Leonard, BP

Presentations:
- Gernandt Hoxha, ENI App
- Jerôme Bridel, Aperam
- Ron Sewell, Huntington Fusion
- Bruce Cowen, Marisk Oil Qatar

Workshop 7

○ Casting and Forgings / HIP

- Heat Treatment
- Manufacturing Process
- HISC

Moderator: Raymond Condewener, Brück Group

Co-moderators:
- Marcello Colnaghi - Company FOMAS (Forging)
- Mauro Ferrante, Fondinom S.p.A. (Forging)

16:30 Closing ceremony: Cake Cutting, Cocktails, Thanks to Sponsors

*Please note this is the preliminary Program. See for the latest version net/duplex2014

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