Annual Assembly Online 2021

Draft Final Agenda

C-XI: Pressure vessels, boilers and pipelines
Wednesday, July 14th – Thursday, 15th 2021
Chair (ad interim): Stephan Egerland (Austria)
Convenor: Su Jun Wu (China)

Room 6 - 14 July h13:00-16:00 CEST
Room 7 - 15 July h13:00-16:00 CEST

Day 1 - Session 1

1. 1300¹: Opening of the Meeting (Stephan Egerland and Su Jun Wu).
2. Identification of C-XI delegates.
3. Request fellow member volunteer to draft the Minutes of the Meeting.

Day 1 - Session 2: Technical Papers (25 minutes per paper including max. 5 minutes of discussion)

(1) 1305 – 13:25: Efficient multi-material and high deposition coatings by tandem plasma transferred arc welding for graded structures
    G. Ertugrul*, A. Hälsig, M. Kusch (Germany)
    Doc. No. XI-1106-2021

(2) 1325 – 13:50: Early detection of microstructural stress concentrators of austenitic superheater coils of power-generating boilers using the metal magnetic memory technique
    A. Dubov, S. Kolokolnikov* (Russia)
    Doc. No. XI-1107-2021

¹ CEST
* Presenting author
Break: 13:50 – 14:05

(3) 1405 – 14:30: Magnification factor $M_k$ for assessing defect at girth weld root toes
Y.-H. Zhang (United Kingdom)
Doc. No. XI-1108-2021

(4) 1430 – 14:55: Recent progress in VPPA welding of aluminium vessel – Process, sense & control, simulation
J. Pan*, J. Xiao, H. Guo, D. Fu, Y. Dong (China)
Doc. No. XI-1109-2021

(5) 14:55 – 1520: Carbon Equivalent Formulae: Knowns and Unknowns
Phil Kirkwood (United Kingdom)
Doc. No. XI-1110-2021

(6) 1520 – 1555: Microstructure and mechanical properties of Al-Mg-Sc welded joint
Doc. No. XI-1111-2021

~ 1555 – 1600: Day 1 - Conclusion and adjournment

Day 2 - Session 3: Technical Papers (25 minutes per paper including 5 minutes of discussion)

1300: Opening of Meeting
1. News from the IIW Secretariat (IIW Technical Manager Dr Elisabetta Sciaccaluga).
2. Election of new IIW WU C-XI Chair (Assisted by IIW Technical Manager).
   a. Notice: One nomination received from PR of China for Prof Sulun Wu.
3. Video presentation of ‘Welding in the World’ status – WitW Editor-in-Chief: John Lippold

(7) 1340 – 1405: Classical and progressive damage analyses of welded 0.5Cr, 0.5Mo, 0.25V steam pipeline intersection operating at high temperature
H. Hosseini-Toudeshky (Iran)
Doc. No. XI-1112-2021

(8) 1405 – 1430: Real-time and visible monitoring of fatigue damage using organic mechanoresponsive luminogen
Z. Zhang *, H. Lin, X. Wei, G. Chen, X. Chen (China)
Doc. No. 1113-2021

Break: 1430 – 1445

Day 2 - Session 4: Panel Discussion

1445 – 1530: IIW WU C-XI - Future scope and focus

Day 2 - Session 5:

1530 – 1540: Recommendations for submission to ‘Welding in the World’
1540 ~ 1600: 74th IIW Annual Assembly C-XI Meeting conclusion and adjournment of meeting