



**INTERNATIONAL INSTITUTE OF WELDING**

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## **Annual Assembly Online 2021**

### **Draft Final Agenda**

**C-XI: Pressure vessels, boilers and pipelines  
Wednesday, July 14<sup>th</sup> – Thursday, 15<sup>th</sup> 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. 1300<sup>1</sup>: 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

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<sup>1</sup> 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 – 15:20: Carbon Equivalent Formulae: Knowns and Unknowns  
Phil Kirkwood (United Kingdom)  
Doc. No. XI-1110-202
- (6) 1520 – 1555: Microstructure and mechanical properties of Al-Mg-Sc welded joint  
S. H. Wen\*, H. J. Jiao, L.G. Zhou, Q. S. Zhang, S. J. Wu (China)  
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 Sciacaluga).
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 SuJun 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: 74<sup>th</sup> IIW Annual Assembly C-XI Meeting conclusion and adjournment of meeting