



**INTERNATIONAL INSTITUTE OF WELDING**

**A world of joining experience**

**Doc. I-1474-2021**

**Annual Assembly Online 2021**

**Draft Agenda, Rev 6**

**C-I: Additive Manufacturing, Thermal Cutting and Thermal Spray**

**July 12 - 14, 2021**

**Room: 7**

**Chair: Doug Kautz (USA)**

**Day 1 @ Session 1**

1. 1300: Opening of the Meeting
2. Request Meeting Secretary to write the Minutes of Meeting
3. Attendees and Apologies, Identification of C-I delegates
4. Approval of the minutes from the last annual assembly in Bratislava (Doc. I-1456-2021)
5. Adoption and Agreement of Agenda (Doc. I-1474-2021)
6. Discussion of Joint Intermediate Meeting held on-line March 30-31
7. 1320: Presentation of documents:

**Session 2: Technical Papers (30 minutes per paper including questions)**

[1] 1320: WAAM of High Strength Filler Metals  
Johanna Mueller

Doc. I-1470-2021

**Break:** 1355 – 1410

[2] 1410: MULTI-FUN: Integration of Optical Fibre Sensors in Aluminum Parts Manufactured by Wire and Arc Additive Manufacturing

Eurico Assuncao

Doc. I-1472-2021

[3] 1445: Comparative Study of Deposition Patterns for DED-Arc Additive Manufacturing of Al-4046

Markus Koehler

Doc. I-1471-2021

[4] 1520: LightMe: Application of Lightweight Materials in Additive Manufacturing

Eurico Assuncao

Doc. I-1473-2021

8. 1555: Daily Session Conclusion and Wrap-up

### **Day 2 @ Session 3**

#### **Session 3: Technical Papers (30 minutes per paper including questions)**

1300: Commission I Meeting Restart

- [5] 1305: Implementation of a Viscoelastic Creep Model in the Thermomechanical Simulation of the WAAM Process  
Sebastian Springer  
Doc. I-1475-2021
- [6] 1340: Development and Implementation of a Software for Wire Additive Manufacturing Preprocessing Planning: Trajectory Planning and Machine Code Generation  
Rafael Pereira Ferreira, Louriel Oliveira Vilarinho, Américo Scotti  
Doc. I-1476-2021

#### **Session 4: Commission Business**

9. 1415: Video Presentation of Welding in the World Status – J. Lippold/A. Scotti

**Break:** 1430 – 1445

#### **Session 3: Technical Papers (continued)**

- [7] 1445: Effects of Inter Layer Time and Build Height on Resulting Properties of 316L Stainless Steel Processed by Laser Powder Bed Fusion  
Gunther Mohr, Kai Hilgenberg  
Doc. I-1478-2021
- [8] 1305: WAAM Technology and application  
Liu Zhenying  
Doc. I-1479-2021
- 1520:
10. 1555: Daily Session Conclusion and Wrap-up

### **Day 3 @ Session 5**

#### **Session 5: Commission Business**

1300: Commission I Meeting Restart

11. 1305: Structure of Commission I: Discussion of chairs and sub-chairs
12. 1310: Activities of Commission I : Discussion on Terms of Reference for Commission and Sub-Commissions
13. 1315: Visit from Secretariat (May be video visit)
14. 1330: List of Documents (Doc. I-1457-2021)
15. 1335: Joint Workshops/Meetings with Other IIW Units
16. 1340: Resolutions by Commission I from 2020 Meeting

**Break:** 1400 – 1415

17. 1415: Other Business

- Report of Activities for TC-261/JWB10 – Simon Jahn
- Report of Activities for AWS D20 – Doug Kautz
- Recommendations for Welding in the World
- Satisfaction Survey
- Preparations for Upcoming Annual Assemblies and Intermediate Meetings

18. 1600: Adjournment of Commission I meeting