



INTERNATIONAL INSTITUTE OF WELDING

A world of joining experience

Chair: Akio Hirose
Delegation Japan

Doc. VII-0184-20
July 22, 2020

COMMISSION VII: MICROJOINING AND NANOJOINING

Draft Agenda in IIW2020 ON-LINE ANNUAL ASSEMBLY

22 July 2020

Program Summary

| Time | Meetings | Room |
|---|-----------------|-------------|
| July 22 (Wednesday) 13:00-16:00 CEST | C-VII Workshop | ON-LINE |

Wednesday July 22, 13:00-16:00 CEST (ON-LINE)

1. C-VII Annual Workshop

1-1 Opening (13:00), Akio Hirose

- Welcome and Introduction to Commission VII
- Approval of the agenda (Doc. VII-0184-20)
- Approval of the minutes of the meeting held in Bratislava, Slovakia 8-10 July 2019 (Doc. VII-0185-20)

1-2 IIW presentation and Election of Chairs (13:10), Akio Hirose

- Election of chairs, IIW Secretariat
- Message from Welding in the World Editors and IIW Secretariat (pre-recorded)

1-3 Technical presentations (13:40)

Session Chair: Tomokazu Sano

| Reference | Title | Presenter | Time (CEST) |
|-------------|--|--|-------------|
| VII-0187-20 | Nanocomposite Sn-Ag-Cu solders for the reliable soldering technology | Jae Pil Jung (University of Seoul, Korea) | 13:40-13:53 |
| VII-0188-20 | Short-circuit diffusion in nanomultilayers for joining applications | Jolanta Janczak-Rusch (Empa, Switzerland) | 13:53-14:10 |
| VII-0189-20 | Joining of copper nanowires by electrodeposition method for high-performance transparent electrode | Yanhong Tian (Harbin Institute of Technology, China) | 14:10-14:23 |
| VII-0190-20 | Transient Liquid Phase Sintered Cu-Sn Skeleton Microstructure for Electronics interconnections | Hiroaki Tatsumi (Mitsubishi Electric Corporation, Japan) | 14:23-14:36 |
| VII-0191-20 | Pulsed laser deposited Ag-Pd nanoalloy for SiC devices packaging | Lei Liu (Tsinghua University, China) | 14:36-14:49 |
| VII-0192-20 | Formation process of interfacial structure in Ag/Si joint during Ag ₂ O decomposition | Tomoki Matsuda (Osaka University, Japan) | 14:49-15:02 |
| VII-0193-20 | Micro-impact welding of NiTi and stainless | Boyd Panton (The Ohio State University, USA) | 15:02-15:15 |
| VII-0194-20 | Processing of TiO ₂ with femtosecond laser | Jianfeng Yan (Tsinghua University, China) | 15:15-15:28 |
| VII-0195-20 | One-step laser patterning of anti-oxidative copper-based structures | Xingwen Zhou (Beihang University, China) | 15:28-15:42 |

1-4 Discussions and Closing Remarks (15:45), Akio Hirose



- Speech from a new chair
- New sub-commission chairs and vice-chairs
- Paper recommendations to Welding in the World
- Miscellaneous
- Date and place of next meeting
- Closure

