



Annual Assembly 2020

Doc. 212-1665-20

Agenda
Study Group 212 "Physics of Welding"
July 23, 2020
ON-LINE

Thursday 23 July 2020, 13:00 – 16:00 CEST @ Room 4

1. Opening

2. Agenda

3. Minutes of previous meeting

5. Presentation of documents:

- [1] 13:10-13:30
The relation between TIG electrode consumption and a light emitting region near electrode
K. Tanaka, M. Shigeta, M. Tanaka and A.B.Murphy (Japan)
Doc. 212-1670-20
- [2] 13:30-13:50
Comparison of fall voltages in GMAW with different shielding gases
G. Zhang, G. Gött and D. Uhrlandt (Germany)
Doc. 212-1674-20
- [3] 13:50-14:10
3D numerical study on high-current GMAW metal transfer behavior with an external alternating axial magnetic field
L. Xiao, D. Fan, J.K. Huang, S. Tashiro and M. Tanaka (China)
Doc. 212-1666-20
- [4] 14:10-14:30
Non-equilibrium modeling of arc plasma in gas metal arc welding
S. Eda, Y. Ogino, S. Asai and T. Sano (Japan)
Doc. 212-1675-20

Coffee Break (14:30 – 14:45)

- [5] 14:45-15:05
Simplified surface heat source distribution for GMAW process simulation based on the EDACC principle
O. Mokrov, M. Simon, R.Sharma and U. Reisgen (Germany)
Doc. 212-1673-20
- [6] 15:05-15:25
Numerical simulation of breakup phenomenon of a liquid bridge in short-circuit transfer process
Y. Sato, S. Eda, Y. Ogino and S. Asai (Japan)
Doc. 212-1671-20
- [7] 15:25-15:45
Macrosegregation in the Weld Pool in MIG Welding
A.B. Murphy, F.F. Chen, J. Xiang, D.G. Thomas and Y. Feng (Australia)
Doc. 212-1672-20

6. Recommendation of publication for IIW Journal “Welding in the World”

7. Miscellaneous

8. Date and place of next meeting

9. Closure