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Doc.IV-1465-20

Annual Assembly On-line Meeting, 2020

Draft Agenda Commission IV "Power Beam Processes"

July 20, 2020

Chair: Herbert Stauer (Austria)

Monday 20 July, 13:00h – 16.00h CEST

1. Opening the Meeting
2. Request volunteer to write the Minutes of Meeting
3. Approval of the minutes in connection with the last annual assembly in Bratislava
4. Cancellation of the intermediate meeting in Mündersbach, Germany on March, 2020
5. Adoption and Agreement of Agenda (Doc. IV-1465-20)
6. Review of the 5th International Electron Beam Welding Conference, Chicago 2019 (Levert, E.)
7. Presentation of documents: Presentation time 15min + 5 min discussion

[1] Doc.IV-1463-20

Influence of Focus and Deflection when Comparing Electron Beam Welds to Laser Welds at Varying Parameters in 304 SS

Joris E. Hochanadel, Tate Patterson, John C. Lippold, Boyd E. Panton, Matthew Q. Johnson, David C. Tung, USA.

[2] Doc.IV-1457-20

Electron Beam Welding of Hot Isostatic Pressed High Strength Low Alloy Steel for Pressure Vessels

Edward Warner; Gary Jones; John Sulley; Charley Carpenter; Ben Tomita; Tom Pinto; Ryan Pitchford; Derek Oliver; Mike Nunn; Alasdair Morrison, UK

[3] Doc.IV-1459-20

Electron beam welding of rectangular copper wires applied in electrical drives

Tamás Tóth, Jonas Hensel, Sven Thiemer, Philipp Sieber, Klaus Dilger, Germany

[4] Doc.IV-1460-20

Electron beam welding of S960QL high strength steel – Microstructural evolution & Mechanical properties

Raghawendra P. Hungary

[5] Doc.IV-1455-20

Review of Process Control for Electron Beam and Laser Beam Welding

J. Hochanadel, T. Patterson, S. Sutton, J. Lippold, B. Panton, USA

Coffe break (10 min)

[6] Doc.IV-1461-20

Prometheus impact in Europe

Barbosa, B. Rita, Eurico G. Assuncao, Belgium

[7] Doc.IV-1453-20

Toughness properties at multi-layer welding of high-strength steels.

Joerg Volpp, Pär Jonsen, Anandkumar Ramasamy, Bert Kalfsbeek, Sweden

[8] Doc.IV-1458-20

Effect of local gas supply on melt pool dynamics and keyhole formation in partial and full penetration laser beam welding at high welding speeds

Leander Schmidt, Klaus Schricker, Jean Pierre Bergmann, Germany

[9] Doc.IV-1464-20

Extension of the process limits in laser beam welding of thick-walled components using the example of the nickel-based alloy Alloy 617

Benjamin Keßler, Germany

8. Recommendation of publication for IIW Journal “Welding in the World”
9. Miscellaneous
10. Date and place of next meeting
11. Closure