



INTERNATIONAL INSTITUTE OF WELDING

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Doc.IV-1482-21

Annual Assembly Online Meeting, 2021

**Final Agenda Commission IV "Power Beam Processes"
July 12 - 13, 2021**

Online

Chair: Dr. Herbert Staufer (Austria)

Monday 12 July, 13:00h – 16:00h CEST Room 6

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 online (Doc. IV-1465-20)
4. Adoption and Agreement of Agenda (Doc. IV-1482-21)
5. Brief report on Joint Intermediate ON-LINE Meeting on March 2021
6. Presentation of documents

(Session chairman: Dr. Patrick Hochanadel, Vice Chairman of Comm.IV)

[1] 13:20 – 13:40

Doc.IV-1479-2021

Understanding the force effect of vapor on keyhole in laser welding with an efficiency multiphase model

Zhongyan Mu, Shengyong Pang, China

[2] 13:40 – 14:00

Doc.IV-1480-2021

Hybrid laser-arc welding of laser and plasma-cut 20 mm thick structural steels

Ömer Üstündağ, Nasim Bakir, Andrey Gumenyuk, Michael Rethmeier, Germany

[3] 14:00 – 14:20

Doc.IV-1481-2021

Development and qualification of Local Vacuum Power Beam Welding for construction of pressure vessels in an industrial environment

Chris Punshon, Jamie Willgress, Steve Falder, Tom Pinto, Ricky Wong, Paul Plumb, GB

[4] 14:20 – 14:50

Doc.IV-1483-2021

Highly Efficient Additive Manufacturing Phenomena of Various Wires using Hot-wire and Diode Laser

S. Zhu, Y. Nakahara, M. Yamamoto, K. Shinozaki, H. Aono, R. Ejima, Japan

Dr. Herbert Staufer, Chairman of Comm. IV

14:50 – 15:10

Meeting with Americo Scotti, Editor-in-Chief of Welding in the World

Tuesday 13 July, 13:00h – 16:00h CEST Room 6

(Session chairman: Dr. Ernest Levert, Chairman of Sub-Comm. IV-B)

[5] 13:00 – 13:20

Doc.IV-1484-2021

Laser welding setup for coaxial combination of two laser beams to vary the intensity distribution

Möbus Marcel, Woizeschke Peer, Germany

[6] 13:20 – 13:40

Doc.IV-1485-2021

Benefits of laser-generated mass accumulations at sheet edges for joining processes

Woizeschke Peer, Germany

[7] 13:40 – 14:00

Laser weldability and morphology for laser beam modulation welding of Al alloy and high strength Steel

Sanghoon Kang, Minjung Kang, Jason Cheon, Korea

Dr. Herbert Staufer, Chairman of Comm. IV

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

8. Election Sub-Chair C-IV-A: Laser Beam Processes

9. Date and place of the next Annual Assembly (75th Annual Assembly, July 17-22, 2022, Tokyo, Japan)

10. Miscellaneous

11. Closure the meeting