

Agenda November 28th 2019

Welcoming Speech (Auditorium)

- 09:00 a.m. Introduction Speech for the second Day
Olaf Lawrenz, Chairman of the Board of Manufacturing Innovations Network e.V., Head of Varel/Bremen Site at Premium AEROTECH GmbH
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Keynote Speeches (Auditorium)

- 09:15 a.m. **Trends in the manufacturing of composite Aerospace Components and resulting demands for Machining Technologies**
Dr.-Ing. Jan Stüve, Head of Department Composite Process Technology, German Aerospace Center (DLR)
- 09:50 a.m. **Research pushing the limits of aerospace manufacturing**
Alexander Krödel, Head of Department for Manufacturing Processes(IFW), Leibniz Universität Hannover
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10:25 a.m. Coffee Break

Sessions 3: 11:00 a.m. – 03:00 p.m. Digitalisation and Industry 4.0

- 11:00 a.m. **Aero-engine trends and drivers for advanced machining**
Dr. Gregor Kappmeyer, Associate Fellow – Machining, Rolls Royce plc.
- 11:30 a.m. **Recent technology development for aero-engine manufacturing in IHI**
Hiroshi Kuroki, General Manager Engine Technology Department, IHI Corporation
- 12:00 p.m. **The future of aviation MRO – opportunities and risks by digital transformation**
Dr.-Ing. Felix Flöter, Corporate Innovation Management, Lufthansa Technik AG
- 12:30 p.m. **Lunch Break**
- 01:30 p.m. **Digital Excellence: performance gains in development, technology implementation, and run-off**
Dr.-Ing. Niklas Kramer, Director Product and Industry Segment Management Sales Area Central Europe, Sandvik Coromant
- 02:00 p.m. **Computed Tomography for Inspection, Failure analysis and Dimensional Measurement in Industry**
Dr. Holger Roth, Global Application Trainer, Baker Hughes, a GE company
- 02:30 p.m. **AI based cooling lubricant systems – "Coolant as a Service" when manufacturing parts for aeronautical use!**
Dr.-Ing. Dirk Friedrich, Chief Executive Officer, Grindaix GmbH
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Farewell Address (Auditorium)

- 03:00 p.m. **Farewell address of the MIC 2019**
Prof. Dr.-Ing. Berend Denkena, Leibniz Universität Hannover and Member of the Board of the Manufacturing Innovations Network e.V.
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Sessions 4: 11:00 a.m. – 03:00 p.m.
Scientific Presentations with Topics of the Session 3

11:00 a.m. Stabilization of metal structure formation in directed energy deposition by applying a coolant system

Ph.D. Ryo Koike, Keio University

11:30 a.m. Automatic re-contouring of repair-welded tool moulds

Klaas Heide, Leibniz Universität Hannover

12:00 p.m. A novel hybrid clamping system for sheet metals and thin walled structures

Dr.-Ing. Uwe Teicher, Technische Universität Dresden

12:30 p.m. **Lunch Break**

01:30 p.m. Ultrasonic assisted peripheral milling of fiber reinforced plastics in consideration of clamping and cutting edge geometry

Falk Protz, Technische Universität Berlin

02:00 p.m. Analysis of burr formation mechanisms when drilling CFRP-aluminium stack using acoustic emission

Jonas Duntschew, Universität Stuttgart

02:30 p.m. Vision-assisted robotic finishing of friction stir-welded corner joints

Ph.D. Erdem Ozturk, ARMC University Sheffield
