PROGRAM

NOVEMBER 30, 2017

9:45	**Opening** (Dr. Michael Schneider, Fraunhofer IKTS, Dresden, Germany)
10:00	**Fundamental processes at the ECM-interface** (Manuel M. Lohrengel, Heinrich Heine University Dusseldorf, Germany)
10:30	**Development of interfaces for material data integration in models of electrochemical machining processes** (Sascha Loebel, TU Chemnitz, Germany)
11:00	**Clarification of gap phenomena in precise electrochemical machining by implementing a "virtual sensor"** (Lukas Heidemanns, RWTH Aachen University, Germany)
11:30	Coffee break and exhibition
12:00	**Application of soft computing methods for modelling and optimization in electrochemical machining process** (Ali Mehrvar, University of Shahreza, Isfahan, Iran) – via Skype
12:30	**Simulation-based tool development for the electrochemical machining of jet engine vanes** (Alexander Ernst, Saarland University, Saarbrucken, Germany)
13:00	**How pre-processes affect the effectivity of temporary corrosion protection** (Frank Faßbender, Excor Korrosionsforschung GmbH Dresden, Germany)
13:30	Lunch break and exhibition
14:30	**Reduplication of precise internal geometries by pulsed electrochemical machining** (Gunnar Meichsner, Fraunhofer IWU, Chemnitz, Germany)
15:00	**Novel all wet electrochemical cannula manufacturing process** (Bernd-Uwe Sander, RENA Technologies GmbH, Freiburg, Germany)
15:30	**Localization of the anodic dissolution of Inconel 718 by using an electroplated nickel film in counter-rotating electrochemical machining** (Dengyong Wang, Nanjing University of Aeronautics and Astronautics, China)
16:00	**Interfacial processes in electrolytic plasma polishing** (Nicolas Laugel, University of Manchester, UK)
16:30	**Surface modification using plasma electrolytic polishing** (Henning Zeidler, Technical University Bergakademie Freiberg, Germany)

17:00	Coffee break and exhibition
17:15	**Fraunhofer IKTS lab tour**
19:30	**Dinner at Carolaschlösschen, Dresden** (Joint walk through Great Garden or individual arrival)

DECEMBER 1, 2017

9:45	**ECM – product analysis and side reactions** (Manuel M. Lohrengel, Heinrich Heine University Dusseldorf, Germany)
10:15	**An electrochemical approach to determine the oxygen production during ECM** (Nils Junker, TU Dresden, Germany)
10:45	**Analysis of the removal geometry in electrochemical straight turning with continuous electrolytic free jet** (André Martin, Chemnitz University of Technology, Germany)
11:15	Coffee break and exhibition
11:45	**COOLPULSETM – the breakthrough for additive manufactured parts** (Robert Binder, EXTRUDE HONE, Holzgünz, Germany)
12:15	**Evaluation of on-machine gap measurement strategies in jet-electrochemical machining** (Matin Yahyavi Zanjani, Chemnitz University of Technology, Germany)
12:45	**Electrochemical studies of the ECM on chromium** (Lenka Simunkova, Fraunhofer IKTS, Dresden, Germany)
13:15	Lunch break and farewell