PROZESS SIGNATUREN
TRANSREGIONALER SONDERFORSCHUNGSBEREICH 136

2nd International Symposium on Process Signatures, 24 June 2021
Web Conference[1]

Thursday, 24 June 2021 (date and time in UTC +2)

09:15-09:30	Dial-in
09:30-09:40	Prof. Bernhard Karpuschewski, Speaker CRC 136 (Leibniz-IWT Bremen, GER) *Welcome*
Chair: Prof. Stefanie Reese (IFAM Aachen, GER)	
09:40-10:10	Prof. Bernhard Karpuschewski, Speaker CRC 136 (Leibniz-IWT Bremen, GER) *Introduction to the transregional Collaborative Research Center (CRC) 136 „Function oriented manufacturing based on characteristic Process Signatures“*
10:10-10:40	Prof. Doriana M. D'Addona (University of Naples Federico II, IT) *Emerging Technologies to Improve Surface Integrity while Machining Inconel 718*
10:40-11:10	Prof. Dragos Axinte (University of Nottingham, UK) *Approaches for in-depth studies of workpiece surface integrity in machining*
11:10-11:40	Prof. Erica Lilleodden (Helmholtz-Zentrum Geesthacht, GER) *On the correlation of micromechanical measurements and microstructural characteristics*
11:40-12:40	**Lunch break**
Chair: Prof. Bernhard Karpuschewski (Leibniz-IWT Bremen, GER)	
12:40-13:10	Prof. Adam Clare (University of Nottingham, UK) *Adventures with electrochemical jets*
13:10-13:40	Dr. Tom Charrett (Cranfield University, UK) *Optical monitoring techniques for wire and arc additive manufacturing*
13:40-14:10	Prof. Andreas Menzel (Institute of Mechanics Dortmund, GER) *Multiscale thermomechanics - application to coating and grinding processes*
14:10-14:40	Prof. A.H. Ton van den Boogaard (University of Twente, NL) *Cracks in AlSi coating at hot stamping conditions*
14:40-15:00	**Coffee break**
Chair: Prof. Rainer Fechte-Heinen (Leibniz-IWT Bremen, GER)	
15:00-15:30	Prof. Brigid Mullany (UNC Charlotte, USA) *Analysis of Inconel 625 surfaces produced by selective laser melting*
15:30-16:00	Prof. Steven Y. Liang (Georgia Institute of Technology, USA) *Prediction of Subtractive and Additive Manufacturing: Process Mechanics Approach*
16:00-16:30	Prof. Hitomi Yamaguchi Greenslet (University of Florida, USA) *The Effects of Magnetic Field-Assisted Finishing on Surface Integrity*
16:30-17:00	Prof. Philip Koshy (McMaster University, CA) *EDM surface functionality*
17:00-17:10	Prof. Bernhard Karpuschewski, Speaker CRC (Leibniz-IWT Bremen, GER) *Closing remarks*

[1] https://uni-bremen.zoom.us/j/97233499281?pwd=UVM2aVNEZk81YUwwcU03TnJteGtWZz09
Meeting-ID: 972 3349 9281, Code: 616109