

Session Program

5-6 May 2022

Integrated Computational Materials, Process and Product Engineering - IC-MPPE 2022

Model based condition monitoring and digital process control I

Live Congress Leoben
Hauptpl. 1, 8700 Leoben, Austria

Friday 6 May

09:55

Model based condition monitoring and digital process control I

Session | **Location:** Erzherzog Johann Saal - Room 1 | **Convener:** Dr Hans-Peter Gänser

09:55-10:15

Introduction to Model Based Condition Monitoring (MBCM) and Hybrid Modelling of physical systems

Speaker

Manfred Mücke

10:15-10:35

Towards identifying thermo-physical material properties by applying hybrid models on an induction hardening test rig

Speakers

Mohammad Zhian Asadzadeh, Dr Peter Raninger

10:35-10:55

Hybrid and Reduced Order Modelling for Digitalisation of Material Processes

Speaker

Dr Amir Horr

10:55-11:15

Advanced processes, Monitoring, Sensors and offerings for Condition based Monitoring - (online presentation)

Speaker

Christopher Murphy

11:15-11:35

Non-destructive crack detection via surface acoustic waves: experiments and simulation

Speaker

Dr Claudia Gruber

11:35