

Session Program

25-27 Nov 2019

**Metal Additive Manufacturing Conference
2019**

***Process Optimization & Control and Quality
Assurance***

Örebro Castle
Kansligatan 1 703 61 ÖrebroSweden

Monday 25 November

17:50

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance I

Session | **Location:** Örebro Castle, 2: Länssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Ms Marie-Noemi Bold

17:50–18:10

OUT-OF-PLANE SURFACE MEASUREMENT AND POROSITY QUANTIFICATION USING FRINGE PROJECTION STRUCTURED LIGHT SYSTEM FOR USE IN POWDER BED FUSION MANUFACTURING

Speaker

Niall O'Dowd

18:10

Tuesday 26 November

09:00

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance II

Session | **Location:** Örebro Castle, 1: Rikssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Dr Bruno Hribernik

09:00–09:20

LASER ADDITIVE MANUFACTURING OF INTERMETALLIC ALLOYS FOR HIGH-TEMPERATURE APPLICATIONS

Speaker

Markus B. Wilms

09:20–09:40

FEASIBILITY STUDY OF ADDITIVE MANUFACTURING OF INCONEL 625 USING EBM PROCESS

Speaker

Xiaoyu Zhao

09:40–10:00

MICROSTRUCTURE AND MECHANICAL PROPERTIES OF ELECTRON BEAM MELTED TiAl6V4 ALLOY MANUFACTURED USING DIFFERENT SCANNING STRATEGIES

Speaker

Carlo Biffi

10:00

10:30

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance III

Session | **Location:** Örebro Castle, 1: Rikssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Prof. Riccardo Casati

10:30–10:50

LOW-DEFECT ADDITIVE MANUFACTURING OF HIGH STRENGTH ALUMINIUM ALLOY BY LASER METAL DEPOSITION

Speaker

Anika Langebeck

10:50–11:10

MELT POOL MONITORING USING FUZZY BASED ANOMALY DETECTION IN LASER BEAM MELTING

Speaker

Eugen Boos

11:10–11:30

EXPLOITING INTRINSIC HEAT TREATMENT TO TRIGGER PRECIPITATION REACTIONS IN MARAGING STEELS DURING LASER ADDITIVE MANUFACTURING

Speaker

Philipp Kürnsteiner

11:30–11:50

STUDY ON THE INFLUENCE OF THE BLADE ON POWDER LAYERS BUILT IN POWDER BED FUSION PROCESSES FOR ADDITIVE MANUFACTURING

11:50

16:00

Speaker

Marco Mitterlehner

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance IV**Session** | **Location:** Örebro Castle, 1: Rikssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Pajazit Avodic

16:00–16:20

THE SIEMENS AM-MONITOR: A NECESSARY PUZZLE PIECE FOR INDUSTRIAL 3D-PRINTING**Speaker**

Jonas Eriksson

16:20–16:40

DESIGN, MANUFACTURING AND CHARACTERIZATION OF HIGH-STRENGTH AI ALLOYS WITH IMPROVED SLM PROCESSABILITY**Speaker**

Riccardo Casati

16:40–17:00

STUDY OF LASER METAL DEPOSITION OF IN718 ON INCLINED PLANES: INFLUENCE OF INCLINATION ON HEIGHT AND WIDTH OF DEPOSITED MATERIAL**Speaker**

Marie-Noemi Bold

17:00–17:20

INTRINSIC HEAT TREATMENT DURING LASER METAL DEPOSITION - DRIVING FACTORS, KINETICS AND EFFECT OF ALLOYING ELEMENTS**Speaker**

Priyanshu Bajaj

17:20–17:40

CORROSION EVALUATION OF ADDITIVE MANUFACTURED 316L AND INCONEL 718 USING AFM BASED TECHNIQUES AND STANDARD ELECTROCHEMICAL TESTING METHODS**Speaker**

Sara Munktell

17:40

Wednesday 27 November

09:30

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance V

Session | **Location:** Örebro Castle, 2: Länssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Ms Paola Bassani

09:30–09:50

OPTIMIZATION OF 316L PRINTING PARAMETERS FOR HIGHER PRODUCTIVITY OF THE SLM-PROCESS

Speaker

Christian Höller

09:50–10:10

THERMAL ANALYSIS OF 316L STAINLESS STEEL BULK PARTS USING NUMERICAL SIMULATION OF THE ADDITIVE MANUFACTURING

Speaker

Josef Hodek

10:10–10:30

OPTIMIZATION OF LPB/SLM PROCESS AND MARAGING STEEL POWDERS FOR PLASTIC INJECTION MOULDS

Speaker

Valentina Vicario

10:30

11:00

Process Optimization & Control and Quality Assurance: Process Optimization & Control and Quality Assurance VI

Session | **Location:** Örebro Castle, 2: Länssalen, Kansligatan 1 703 61 ÖrebroSweden | **Convener:** Ms Jasmin Saewe

11:00–11:20

MICROSTRUCTURE AND HIGH RESOLUTION INVESTIGATIONS OF A205 AND AISi10Mg ALLOYS PRODUCED BY SELECTIVE LASER MELTING

Speaker

Paola Bassani

11:20–11:40

INNOVATING WITH GAS MOLECULES IN ADDITIVE MANUFACTURING

Speaker

Pierre Foret

11:40–12:00

PREDICTIVE PROCESS PARAMETER SELECTION FOR SELECTIVE LASER MELTING MANUFACTURING: APPLICATIONS TO HIGH THERMAL CONDUCTIVITY ALLOYS

Speaker

Priyanshu Bajaj

12:00–12:20

EFFECTS OF DIFFERENT THERMAL POST-PROCESSING ON Ti6Al4V PARTS MANUFACTURED BY METAL-POWDER BED FUSION

12:20

Speaker
Simon Bubb