

Session Program

17-21 Jun 2019



5th International Conference on Advances in Solidification Processes (ICASP-5) 5th International Symposium on Cutting Edge of Computer Simulation of Solidification, Casting and Refining (CSSCR-5)

Additive manufacturing

IMLAUER HOTEL PITTER SALZBURG
Rainerstraße 6, 5020 Salzburg, Austria

Thursday 20 June

10:30

Additive manufacturing: Exp. & mesoscale modeling

Session | **Location:** IMLAUER HOTEL PITTER SALZBURG, Auersperg 2

10:30–10:50

CAPTURING RAPID SOLIDIFICATION DURING LASER ADDITIVE MANUFACTURING USING SYNCHROTRON IMAGING

Speaker

Peter Lee

10:50–11:10

SOLIDIFICATION OF NIOBIUM-SILICIDE-BASED ALLOYS DURING LASER ADDITIVE MANUFACTURING PROCESS

Speaker

Mr Adam Allen

11:10–11:30

CELLULAR-AUTOMATON SIMULATION OF MICROSTRUCTURE EVOLUTION DURING ADDITIVE MANUFACTURING

Speaker

Abhishek G.S.

11:30–11:50

SOLIDIFICATION MICROSTRUCTURE DURING SELECTIVE LASER MELTING OF Ni BASED SUPPERALLOY: EXPERIMENT AND MESOSCOPIC MODELLING

Speaker

Yuze Li

11:50–12:10

STATIC MAGNETIC FIELD HAS IMPACT ON SOLIDIFICATION STRUCTURE OF METALLIC SAMPLES FABRICATED VIA ADDITIVE MANUFACTURING

Speaker

Jiang Wang

12:10

13:30

Additive manufacturing: Multiscale modeling

Session | **Location:** IMLAUER HOTEL PITTER SALZBURG, Rainerstraße 6, 5020 Salzburg, Austria

13:30–14:00

THERMO-MECHANICAL MODELING OF ADDITIVE MANUFACTURING BY POWDER BED FUSION AT PART SCALE

Speaker

Yancheng ZHANG

Location

IMLAUER HOTEL PITTER SALZBURG, Auersperg 2

14:00–14:20

THERMO-MECHANICAL SIMULATION OF TRACK DEVELOPMENT IN THE LBM PROCESSES - EFFECT OF LASER-METAL INTERACTION

Speaker

Alexis Queva

Location

IMLAUER HOTEL PITTER SALZBURG, Rainerstraße 6, 5020 Salzburg, Austria

14:20–14:40

PARTICLE SCALE MODELLING OF POROSITY FORMATION DURING SELECTIVE LASER MELTING PROCESS USING A COUPLED DEM-CFD APPROACH**Speaker**

Arvind Kumar

Location

IMLAUER HOTEL PITTER SALZBURG, Rainerstraße 6, 5020 Salzburg, Austria

14:40–15:00

MODELLING COLUMNAR AND EQUIAXED SOLIDIFICATION IN METAL ALLOY ADDITIVE MANUFACTURING**Speaker**

David Browne

Location

IMLAUER HOTEL PITTER SALZBURG, Rainerstraße 6, 5020 Salzburg, Austria

15:00–15:20

PHASE FIELD STUDY OF SPACING EVOLUTION DURING WIRE AND LASER ADDITIVE MANUFACTURING UNDER TRANSIENT CONDITIONS**Speaker**

Wang Zheng

Location

IMLAUER HOTEL PITTER SALZBURG, Rainerstraße 6, 5020 Salzburg, Austria

15:20–15:40

MACRO-MICRO COUPLED SIMULATION OF SOLIDIFICATION MICROSTRUCTURE DURING LASER ADDITIVE MANUFACTURING PROCESS**Speaker**

Junjie Li

Location

IMLAUER HOTEL PITTER SALZBURG, Room C, Rainerstraße 6, 5020 Salzburg, Austria

15:40