

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)

Poster Session

IMLAUER HOTEL PITTER SALZBURG
Rainerstraße 6, 5020 Salzburg, Austria

Tuesday 18 June

17:50

Poster Session

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

17:50-17:51

PHASE-FIELD SIMULATION OF THE MICROSTRUCTURE EVOLUTION DURING DIRECTIONAL SOLIDIFICATION OF THE TERNARY EUTECTIC SYSTEM Bi-In-Sn

Speaker

Kaveh Dargahi Noubary

17:51-17:52

FINITE ELEMENT MODELING OF SOLIDIFICATION STRUCTURES IN STEEL INGOTS

Speaker

Mr Gildas Guillemot

17:52-17:53

PHASE-FIELD STUDY OF EUTECTIC COLONY FORMATION

Speaker

Michael Kellner

17:53-17:54

THE EFFECT OF STATIC MAGNETIC FIELDS ON CRYSTAL-MELT INTERFACIAL FREE ENERGY IN SOLIDIFICATION

Speaker

Prof. Jiang Wang

17:54-17:55

SOLIDIFICATION OF Ti-46Al-8Nb IN HYPER-GRAVITY AND MULTI-PHYSICS MODELLING

Speaker

Can Huang

17:55-17:56

DENDRITIC COLUMNAR GROWTH OF BBC BETA-(TiAl) IN MICRO- AND -HYPER GRAVITY: 1. EXPERIMENTAL RESULTS AND MACRO-SCALE MODELING

Speaker

Julien Zollinger

17:56-17:57

DENDRITIC COLUMNAR GROWTH OF BBC BETA-(TiAl) IN MICRO- AND -HYPER GRAVITY: 2. PHASE-FIELD MODELING

Speaker

Alexandre Viardin

17:57-17:58

SOLIDIFICATION MODELING USING USER DEFINED FUNCTION IN ANSYS FLUENT

Speaker

Moritz Eickhoff

17:58-17:59

MODELING OF EUTECTIC GROWTH KINETICS WITH THERMODYNAMIC COUPLINGS**Speaker**

Oriane Senninger

17:59-18:00

THE EFFECT OF THE ANISOTROPY OF SURFACE ENERGY AND KINETIC ATTACHMENT ON SILICON SOLIDIFICATION**Speaker**

Mr Jean-Marc Debierre

18:01-18:02

RAPID SOLIDIFICATION OF Al-Cu DROPLETS OF NEAR EUTECTIC COMPOSITION**Speaker**

Hani Henein

18:02-18:03

STUDY ON MICROSTRUCTURES, GROWTH ORIENTATION AND MECHANICAL PROPERTIES OF DIRECTIONALLY SOLIDIFIED Mg-14.61Gd ALLOY**Speaker**

Guangyu YANG

18:03-18:04

SEMI-GRAND CANONICAL MONTE CARLO SIMULATION FOR DERIVATION OF THERMODYNAMIC PROPERTIES OF BINARY ALLOY**Speaker**

Ueno Kensho

18:04-18:05

PHASE-FIELD SIMULATIONS ON MORPHOLOGICAL CHANGE OF DENDRITE WITH DIFFERENT PREFERRED GROWTH DIRECTIONS**Speaker**

Geunwoo Kim

18:05-18:06

MULTI-GPU ACCELERATION OF THREE-DIMENSIONAL PHASE-FIELD COMPUTATION FOR DENDRITE GROWTH WITH THERMAL-SOLUTAL CONVECTION**Speaker**

Shinji Sakane

18:06-18:07

MICROSEGREGATION AT GRAIN BOUNDARY IN A BINARY ALLOY BICRYSTAL ANALYZED BY PHASE-FIELD SIMULATIONS**Speaker**

Jaehoon Lee

18:07-18:08

ESTIMATION OF PROPERTIES OF SOLID-LIQUID INTERFACE BASED ON DATA ASSIMILATION**Speaker**

Yukimi OKA

18:08-18:09

PHASE-FIELD SIMULATION OF ABNORMAL GRAIN GROWTH IN CARBON STEEL**Speaker**

Takahisa Kinoshita

18:09-18:10

CHARACTERIZATION OF DENDRITIC GROWTH IN Fe-C SYSTEM BY USING TIME-RESOLVED X-RAY TOMOGRAPHY AND PHYSICS-BASED FILTERING**Speaker**

Hideyuki Yasuda

18:10-18:11

INTERACTION BETWEEN FLOW AND FACETED CRYSTAL GROWTH**Speaker**

Prof. Mihaela Stefan

18:11-18:12

MULTISCALE MODELLING OF THE TWIN ROLL CASTING PROCESS**Speaker**

Yi Qiu

18:12-18:13

ON THE FORMATION OF INCLUSION AND MACROSEGREGATION BY AN INCLUSION-COMBINED MACROSEGREGATION MODEL**Speaker**

Dr JUN LI

18:14-18:15

PERMEABILITY PREDICTION IN ANY DIRECTION OF COLUMNAR DENDRITE BY PHASE-FIELD AND LATTICE BOLTZMANN METHODS**Speaker**

Yasumasa Mitsuyama

18:16-18:17

SOLIDIFICATION CRACKING DURING WELDING OF STEEL: IN SITU X-RAY OBSERVATION**Speaker**

Jun Li

18:18-18:19

ATOMISTIC SIMULATION OF CRACK PROPAGATION ALONG γ -TiAl LAMELLAR INTERFACE**Speaker**

Li Wen

18:19-18:39

CELLULAR-TO-DENDRITIC AND DENDRITIC-TO-CELLULAR MORPHOLOGICAL TRANSITIONS IN A TERNARY Al-Mg-Si ALLOY**Speaker**

Nathalie Mangelinck

19:20