

Session Program

30 September 2019 to 2 October 2019

ESSC & DUPLEX 2019

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Simulation and modelling

Schloss Schönbrunn
Apothekertrakt, Vienna

Tuesday 1 October

09:00

Simulation and modelling: Simulation and modelling I

Session | **Location:** Schloss Schönbrunn, Room B - Maximilian, Apothekertrakt, Vienna | **Convener:** Gerald Wimmer

09:00–09:20

UNDERSTANDING AND OPTIMIZING AOD PROCESS WITH CFD SIMULATIONS

Speaker

Bernhard Voraberger

09:20–09:40

THERMOKINETIC SIMULATION OF σ PHASE IN DUPLEX STEELS

Speaker

Aurélie Jacob

09:40–10:00

COMPUTATION OF COMPETITIVE PRECIPITATION OF ETA CARBONITRIDE PHASE, Z-PHASE NITRIDE, AND INTERMETALLIC G-PHASE AT VARYING NITROGEN CONTENTS IN Nb- AND Si-ALLOYED AUSTENITIC STAINLESS STEEL

Speaker

Erwin Povoden-Karadeniz

10:00–10:20

SIMULATION OF ELECTROMAGNETIC STIRRING IN CONTINUOUS CASTING OF STAINLESS STEEL

Speaker

Mirko Javurek

10:20

10:50

Simulation and modelling: Simulation and modelling II

Session | **Location:** Schloss Schönbrunn, Room B - Maximilian, Apothekertrakt, Vienna | **Conveners:** Erwin Povoden-Karadeniz, Dr Mirko Javurek

10:50–11:10

DICTRA® SIMULATIONS OF SIGMA PHASE FORMATION IN DUPLEX STAINLESS STEELS

Speaker

RODRIGO MAGNABOSCO

11:10–11:30

LOW TEMPERATURE SURFACE HARDENING OF STAINLESS STEEL; PREDICTING COMPOSITION AND STRESS PROFILES

Speaker

Prof. Marcel Somers

11:30–11:50

FLEXIBLE AOD OPTIMIZATION TECHNOLOGY FOR STAINLESS AND SPECIAL STEELMAKING

Speaker

Mr Richard Stadlmayr

11:50-12:10

PREDICTION OF PERCENTAGE OF FERRITE AS A FUNCTION OF HEAT INPUT IN ROBOTIC GAS METAL ARC WELDING OF DUPLEX STAINLESS STEEL SAF 2205 WELDS

Speaker

Maria Carolina Payares-Asprino

12:10-12:30

THERMO-CALC® AND DICTRA® SIMULATIONS OF THE SOLUTION HEAT TREATMENT OF SUPERDUPLEX STAINLESS STEELS

Speaker

RODRIGO MAGNABOSCO

12:30

14:00

Simulation and modelling: Simulation and modelling III

Session | **Location:** Schloss Schönbrunn, Room B - Maximilian, Apothekertrakt, Vienna | **Conveners:** Dr Mirko Javurek, Dr Erwin Povoden-Karadeniz

14:00-14:20

3D ViSE - SIMULATION OF A COMPLETE PROCESSING LINES

Speaker

Christian Schwingenschlögl

14:20