

# Program

Tuesday, June 4, 2019

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| 08:30 – 09:00 | Registration   |
| 09:00 – 09:10 | Welcome  |
| 09:10         | <b>Seppo Louhenkilpi (U Oulu)</b><br>Modelling of continuous casting of steel – IDS and CastManager tools  |
| 09:50         | <b>Tim Haas (RWTH Aachen)</b><br>Application of convolutional neural networks in steelmaking and research  |
| 10:30 – 11:00 | <i>Coffee Break</i>  |
| 11:00         | <b>Najib Alia (WIAS Berlin)</b><br>On the simulation and optimization of the Navier–Stokes equations applied to buoyancy-driven liquid steel stirring                    |
| 11:30         | <b>Eshwar Ramasetti (U Oulu)</b><br>Multiphase modelling of open-eye formation and mixing time of nickel alloy in argon stirred industrial ladle                         |
| 12:00 – 13:00 | <i>Lunch Break</i>   |
| 13:00         | <b>Vahid Javaheri (U Oulu)</b><br>Slurry erosion line pipe: Production process design  |
| 13:30         | <b>Satish Kumar Kolli (U Oulu)</b><br>Intergranular corrosion in austenitic stainless steels: Quantitative prediction accounting for multicomponent mass balance effects |
| 14:00         | <b>Shashank Ramesh Babu (SSAB, Raahé)</b><br>Auto-tempering in low-carbon martensite during quenching  |
| 14:30 – 15:00 | <i>Coffee Break</i>  |
| 15:00         | <b>Åke Jansson (Thermo-Calc Software AB, Solna)</b><br>Applications of the CALPHAD-type thermodynamic steel database TCFE9 for the development of novel high-Mn steels   |
| 15:40         | <b>Jonas Edberg (U Luleå)</b><br>Physically-based constitutive models for simulations of industrial scale material processes   |
| 16:20         | <b>Jari Larkiola (U Oulu)</b><br>Simulation of microstructural evolution during steel TMCP (Thermo-Mechanically Controlled Processing)                                   |
| 17:00         | <b>Henry Martin (KNUST, Kumasi)</b><br>Modelling the onset of ferrite formation in steel: Effect of combining different alloying elements (some $N$ -way interaction)    |
| 19:00         | Conference Dinner at <b>Strøm Mat &amp; Bar</b> , Skien, Nedre Hjellegate 11   |

Wednesday, June 5, 2019

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| 09:00         | <b>Prerana Das (EFD Induction, Skien)</b><br>Numerical simulation of high-frequency induction welding of steel tubes                                |
| 09:30         | <b>Manuel Arenas (WIAS Berlin)</b><br>Modelling, simulation and optimization of inductive pre- and post-heating for thermal cutting of steel plates |
| 10:00 – 10:30 | <i>Coffee Break</i>   |
| 10:30         | <b>Alfred Schmidt (U Bremen)</b><br>Modeling and simulation for the optimization of thermal upsetting and laser additive manufacturing              |
| 11:10         | <b>Dolores Gómez (U Santiago de Compostela)</b><br>Numerical simulation of induction hardening on ferromagnetic parts for the automotive industry   |
| 11:50         | <b>Martin Hunkel (IWT Bremen)</b><br>Modeling and simulation of distortion related effects during heat treatment of steels                          |
| 12:30 – 13:30 | <i>Lunch</i>  |