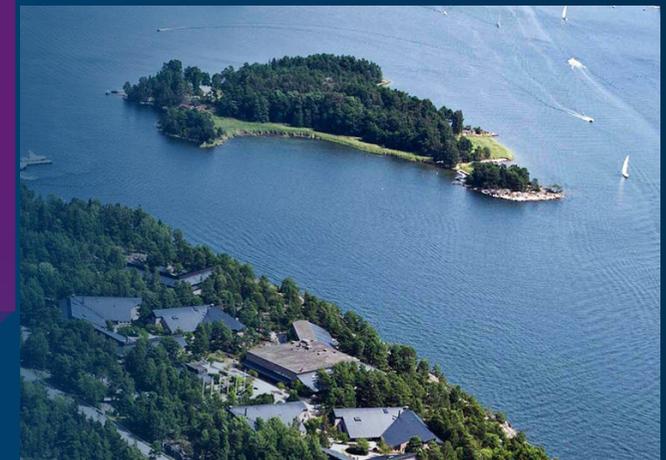


MCWASP XV

MODELLING OF CASTING, WELDING AND ADVANCED SOLIDIFICATION PROCESSES



21-26 JUNE 2020
STOCKHOLM, SWEDEN



JÖNKÖPING UNIVERSITY
School of Engineering

IMPORTANT DATES

- ▶ Abstract submission open: 1 May 2019
- ▶ Abstract submission deadline: 15 September 2019
- ▶ Notification of acceptance of abstract: 15 October 2019
- ▶ Full paper submission: 15 December 2019
- ▶ Final paper submission: 15 March 2020
- ▶ Conference Proceeding Distribution: 21 June 2020

Accepted papers will be published in a special issue of IOP Conference Series. Materials and Engineering which is available open access online and in conference proceedings distributed at the conference.

REGISTRATION-FEE

Early-bird fee, until 15 March 2020: 13 000 SEK
Regular fee: 15 000 SEK
PhD student fee*: 8 000 SEK

The fee includes full access to the conference, housing in a single-room, all meals, coffee-breaks, printed proceedings, conference gala dinner and access to the venue facilities. Additional costs may apply for transfer to/from the venue and selected excursions.

***PhD student fee does not include printed proceedings.**

CONFERENCE ORGANIZERS

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Jakob Olofsson, *Jönköping University*

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Michel Bellet, *MINES- ParisTech, CEMEF*

Peter Lee, *University College London*

Steve Cockcroft, *University British Columbia*

DEAR COLLEAGUES

We are delighted to invite you to join us at MCWASP XV – The 15th International Conference on Modelling of Casting, Welding and Advanced Solidification Processes. The conference will be held 21-26. June 2020 and the location this time is Djurönäset in the archipelago of Stockholm, Sweden.

The conference is organised by the School of Engineering at Jönköping University, Sweden.



We invite academics, researchers, PhD-students, engineers and software developers within the relevant fields to submit scientific contributions to the conference, and to join us in Stockholm in June 2020!

The conference is held in a single-session format, with plenty of time for social interaction. One half-day is dedicated to excursions.

TOPICS

- Solidification processing of metallic alloys, non-metallic materials and composites.
- Shape casting (sand casting, die casting, HPDC, thixocasting, rheocasting, lost foam, etc.), continuous casting.
- Welding, soldering, brazing etc.
- Processing/structure/property relations.
- Through-process modelling.
- Numerical techniques for solidification modeling (FEM, FVM, DEM, LB, etc.).
- Nucleation, grain refinement and inoculation techniques.
- Microstructure evolution, columnar-to-equiaxed transition and globular-to-dendritic transition.
- Formation of eutectics, peritectics and intermetallics. Modification.
- In-situ observations of solidification phenomena and comparison with predictions.
- Micro- and macrosegregation.
- High temperature/mushy zone properties. Rheology.
- Thermodynamics of solidification.
- Stress and deformation, hot tearing, macro-shrinkage and porosity.
- Novel process techniques, e.g. additive manufacturing.
- Treatment after casting (e.g. heat treatment, machining, shot peening).
- Mold and core materials (e.g. thermal conductivity, specific heat, density, mechanical properties).

VENUE

The conference will be held in the archipelago of Stockholm at the conference venue Djurönäset.

The venue is beautifully located close to both the water and the woods of the island Djurönäset. The venue offers a wide variety of activities including indoor and outdoor pool, saunas, gym, tennis court, running tracks etc.



FOR MORE INFO

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