



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

**17 - 21 June 2019**

**Salzburg/ Austria**

[www.icasp5-csscr5.org](http://www.icasp5-csscr5.org)



## SCOPE

After the successful series of the conferences, ICASP and CSSCR, we have decided to hold their 5<sup>th</sup> edition together as a joint event and at the same location. The scope is unchanged: it covers all aspects of solidification related researches and applications.

This joint meeting will offer a great opportunity for the solidification experts, from both academic research area and engineering applications, to share their knowledge and new scientific achievements, and to discuss the common challenges and potential pathways for future developments.



Quelle: Tourismus Salzburg  
G. Breitetger

It is also expected to enhance exchanges between academic researchers and industries, from West and East, at the location of the UNESCO World Heritage city of Salzburg, at the heart of Europe. Solidification science and technology deserve the destination as we, experts in the field, place it as high as a Wolfgang Amadeus Mozart's partition.

## TOPICS

- Solidification fundamentals (thermodynamics, nucleation, crystal growth kinetics, coarsening, mushy zone, fragmentation, etc.)
- Modeling and simulation (analytical and numerical models, numerical methods, verification and validation of models)
- Solidification observations (advanced microscopy, electron beam analysis, transparent organic analogues, X-ray tomography, confocal scanning laser microscope, imaging and analysis).
- Solidification processing (continuous casting, shape, casting, ingot, directional solidification, rapid solidification, semi-solid processing, welding, additive manufacturing, solidification/remelting under imposed electromagnetic or high magnetic fields, etc.)
- Structural/compositional heterogeneity and other solidification accompanying phenomena (columnar-to-equiaxed transition, micro- and macrosegregation, cavity and porosity, hot tearing, non-metallic inclusions, stress-strain and deformation, etc.)

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