

# Preface

The 11<sup>th</sup> International Symposium on the Science and Processing of cast Iron (SPCI-XI) was organized under the umbrella of Casting Innovation Centre (CIC) that represents the collaboration between the Swedish Foundry Organization, Swerea Swecast and Jönköping University. This symposium was held between 4<sup>th</sup> and 7<sup>th</sup> of September 2017 in Jönköping, Sweden.

The scope of the scientific meeting was similar to the previously organized symposiums in this field, hosted by Detroit, USA (1964), Geneva, Switzerland (1974), Stockholm, Sweden (1984), Tokyo, Japan (1989), Nancy, France (1994), Birmingham, USA (1998), Barcelona, Spain (2002), Beijing, China (2006), Luxor, Egypt (2010) and Mar del Plata, Argentina (2014) including main topics such:

- Fundamental research on metallurgy, solidification and solid-state transformations of cast iron.
- Thermo-physical and thermo-mechanical properties of cast iron.
- Modelling and simulation of phenomena related to processing of cast iron.
- Recent technological developments of melting, casting, heat treatment and process control.
- Novel developments and applications of cast iron.

A collection of the scientific contributions from the previous symposiums can be found under the following link: <https://scholar.google.se/citations?hl=sv&user=iaRxbEMAAAJ>

More than 160 researchers, producers and users of cast iron from 27 countries gathered and discussed the advances in the science and processing of cast iron. A number of 86 peer reviewed papers were presented in 11 oral sections and one poster section. Each oral section was followed by a complementary section where the oral presentations were posted also as a poster promoting the interaction between authors and audience. The general impression related to this type of organization was a good one and much appreciated by the participants.

Young researchers in PhD student or Post-Doctoral positions were emphasized by the audience, selecting the best Young Researcher Paper Awards which was attributed to Jacques Bourdie (France), Björn Domeij and Péter Svidró (Sweden), and Atsushi Ito (Japan).

Short documentary movies were produced from the conference which can be found under the following links:

[https://play.hj.se/media/SPCI-XI+-+Why+SwedenF/1\\_tw09yh9t](https://play.hj.se/media/SPCI-XI+-+Why+SwedenF/1_tw09yh9t)

[https://play.hj.se/media/SPCI-XI+-+The+Conference/1\\_9wv7jqlg](https://play.hj.se/media/SPCI-XI+-+The+Conference/1_9wv7jqlg)

[https://play.hj.se/media/SPCI-XI+-+The+Future+of+Cast+Iron/1\\_ioj03gfp](https://play.hj.se/media/SPCI-XI+-+The+Future+of+Cast+Iron/1_ioj03gfp)

Next SPCI-XII symposium will be held in the autumn of 2020 or spring of 2021 in Sapporo, Japan organized by Professor Hideyuki Yasuda and the Japanese Foundry Association.

The Editors,

Attila Diószegi

[attila.dioszegi@ju.se](mailto:attila.dioszegi@ju.se)

Vasile-Lucian Diaconu

[diaconu.vasilelucian@yahoo.com](mailto:diaconu.vasilelucian@yahoo.com)

Anders E.W. Jarfors

[anders.jarfors@ju.se](mailto:anders.jarfors@ju.se)

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