

QDE2018

International Conference on
Quenching and Distortion Engineering 2018
Nagoya Congress Center, JAPAN, 27-29, Nov, 2018

The various causes for distortion can be found in every step of the manufacturing process. Based on that the control of a component's distortion only can be achieved by an interdisciplinary approach starting at the design phase of a part up to the final heat treatment. This fact was proven during the funded Collaborative Distortion Engineering project in Bremen between 2001 and 2011 (SFB570) for a lot of different manufacturing chains..

This new understanding was one of the main reasons to initiate the **International Conferences on and Distortion Engineering (IDE)**. These conferences took place in Bremen (2005, 2008, 2011 and 2015) and in collaboration with the **Quenching and Control of Distortion Conference in Chicago (QCD 2012)**. All these events have shown that a system-oriented point of view is necessary for the full understanding and solving of distortion problems. From 2018 it was changed to the meeting name **International Conference on Quenching and Distortion Engineering (QDE)** including quenching and it was decided to be held as a international conference focusing on wider heat treatment technology. The main objective of the **QDE 2018** is again to discuss on an international level the state of the art in understanding basic mechanisms and interactions between different production steps leading to distortion and the measures to control changes in shape and dimensions including modeling and simulation in industrial production processes.

Sessions

- **Measurement of distortion and residual stresses in general**
- **In-process measurement of deformations and phase compositions**
- **Control of distortion and quality management**
- **Interactions of different production processes**
- **Case studies on distortion problems**
- **Methods of distortion compensation**
- **Modeling of distortion related phenomena (plasticity, creep, transformation plasticity, phase transformation)**
- **Simulation of single and couplings of subsequent processes such as casting, hot and cold forming, machining, and heat treatment**
- **Determination of boundary conditions (e.g. heat transfer) for process simulation.**
- **Low distortion surface heat treatment process**
- **Quenching**

Important Dates

- **Deadline for submission of abstracts** February 28, 2018
- **Notification of acceptance** March 30, 2018
- **Preliminary program** April 27, 2018
- **Deadline for proceedings (extended abstract)** July 27, 2018
- **Deadline for early bird registration** August 31, 2018
- **Conference opening** May 18, 2018

• **For questions, please contact info@qde2018.jp**

• **Conference HP : <http://www.QDE2018.jp>**

• **Venue Information : <http://www.nagoya-congress-center.jp/en/access/>**

Registration Fees

Attendance fee	¥ 70,000
Reduced attendance fee for speakers and members of the International Committee	¥ 65,000
Reduced attendance fee for students	¥ 35,000
Early bird registration discount (before July 31st 2018)	— ¥ 5,000
Beer party and Conference Dinner for accompanying persons	¥ 12,000
Additional conference proceedings	¥ 15,000