

- QDE 2018 in Nagoya
- 25th IFHTSE Congress in Xi'an
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- International Standard on heat treatment

QDE, the next IFHTSE conference:

International Conference on Quenching and Distortion Engineering



QDE 2018 follows up on the former series of IDE, organised by IWT of Bremen, Germany, and QCD, organised by IFHTSE. These two have been merged into the QDE series.

Keynote speakers:

- **Imre Felde** (*Óbuda University Budapest*):
Online database for liquid quenchants
- **Kyozo Arimoto** (*Arimotech Osaka*):
Learning about mechanisms of distortion and residual stress due to heat treatment by simulated-strain based approach
- **Thomas Lübben** (*IWT Bremen*):
Distortion of gear base bodies in consideration of lightweight construction
- **Yoichi Watanabe** (*Parker Netsushori Kogyo Co., Ltd. R & D Laboratories*):
Cooling characteristics and distortion during austempering using water added molten salt
- **D. Scott MacKenzie** (*Houghton International, USA*):
Quenching aluminum for residual stress and distortion control

The sessions cover:

- 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 processes/sequences such as casting, hot and cold forming, machining, and heat treatment
- Determination of boundary conditions (e.g. heat transfer) for simulation
- Low distortion surface heat treatment process
- Quenching

25th IFHTSE Congress

The 25th IFHTSE Congress, held 11-14 September 2018 in Xi'an, China, was one of the biggest events ever in our field. As many as 1150 participants followed 8 keynote lectures, 19 symposiums, 430 oral presentations, and viewed 133 posters.



Prof. Xu Kewei, executive chairman of the conference, formerly IFHTSE President, during his opening speech



IFHTSE President Scott Mackenzie and Vice President Eva Troell congratulating Liang Wu of Chongqing University, winner of the Tom Bell Young Author Award, sponsored by Linde Gas. He will have free travel to and participation at the next IFHTSE Congress in Moscow, 17-19 September 2019



IFHTSE Fellow Herwig Altena during his plenary lecture "Weight Reduction of Automotive Components by Optimized Heat Treatment Processes"



More pictures:

https://1drv.ms/f/s!AsR_7tohgrcVuS4T6PeLoD-zTtNt

Obituary FAN Dongli

FAN Dongli, who was instrumental in establishing vital and lasting collaborations between China's heat treating and surface engineering industries and the international community, died on September 19th at the age of 84.

Prof. Fan was born and raised in the city of Taiyuan, Shanxi province in central China, and was a graduate of the Harbin Institute of Technology. He was a well-known and enormously influential expert in the field of material heat treatment in China and performed extensive research and development work on the basic theory of heat treatment, material development, process and equipment, in addition to standards and specifications development. Prof. Fan's work



formed the basic heat treatment technology development in China where he made outstanding contributions in the rolling and heat treatment technology, salt bath nitriding, hydrogen embrittlement of steam turbine blades, controlled atmosphere and vacuum heat treatment, and energy saving and emission reduction.

Over the years, Prof. Fan served as Vice Secretary-General and President of the Chinese Heat Treatment Society (CHTS), Vice President and Secretary-General of the China Heat Treatment Association (CHTA), Chairman of the Heat Treatment Standardization Technical Committee, Editor-in-Chief of Metal Heat Treatment Magazine, and Chief Engineer of the Beijing Electromechanical Research Institute (BRIMET).

Prof. Fan authored numerous influential publications including „Heat Treatment Handbook“, „Heat Treatment Energy-Saving Technology“, „Heat Treatment Handbook for Engineers“, and „Metal Heat Treatment Production Process Safety and Health Requirements - National Standards“. In addition, Prof. Fan was the honored recipient of several ministerial and national science and technology awards. In 2009, Prof. Fan was elected as IFHTSE Fellow “in recognition of his long-term dedication to research on, and application of, energy-saving and environmentally benign heat treatment technology, as well as his role in promoting the present high visibility of the Chinese contribution to the heat treatment community globally”.

ISO standardization of the the quality of the heat treatment workshops

IFHTSE strongly supports the development of international standards in the field of the science and technology of heat treatment and surface engineering of materials. We warmly encourage our members to participate in this activity.

An ISO standardization is currently in progress with ISO/TC 244/WG8 to develop a new reference of the quality in the heat treatment workshops.

The standard describes the general requirements and recommendations including in particular the general organisation, the contract review, the preparation and the control of the thermal cycle and of the heat treatment medium. The way to handle the pyrometry with the furnace homogeneity and the measuring chain controls is indicated.

The scoring is progressive for the different recommendations, the document is a good base for continuous improvement. The document could be improved following the ISO rules for any request for revision. The document is managed by the ISO and not by a particular commercial brand and reflects the consensus of experts.

The working group ISO/TC 244/WG 8 is now established with experts from France, China, Canada, and we are looking for experts from other countries, P-members of ISO/TC 244: Germany, Australia, Austria, Belgium, South Korea, Denmark, India, Italy, Japan, Luxembourg, Netherlands, Poland, Romania, United Kingdom, Sweden.

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Forthcoming Conferences

2018	NOV	20-21	Vacuum Heat Treatment and Heat Treatment of Tools [languages: Czech/English]	Púchov	Slovak Republic	www.htconference.cz/en	
2018	NOV	27-29	International Conference on Quenching and Distortion Engineering	Nagoya	Japan	http://www.qde2018.jp/	
2019	MAY	12-16	Tooling 2019	Aachen	Germany	https://tooling2019.com/	
2019	JUNE	5-7	European Conference on Heat Treatment	Bardolino	Italy	http://www.aimnet.it/echt2019.htm	
2019	SEP	17-19	26th IFHTSE Congress	Moscow	Russia	http://www.26ifhtse.com/	
2019	OCT	15-17	Heat Treat 2019		USA		
2019	OCT	22-24	HK 2019 [languages: German/English]	Cologne	Germany	http://www.awt-online.org/haertereikongress.html	
2020	Spring		European Conference on Heat Treatment		Benelux		
2020	JUNE or SEP		5th International Conference on Thermal Process Modelling and Simulation (ICTPMS)		Croatia		
2020	OCT	20-22	Härterei-Kongress [languages: German/English]	Cologne	Germany	http://www.awt-online.org/haertereikongress.html	
2021	SEP		QDE	Bremen	Germany		
2021			27th IFHTSE Congress		Japan		
2021			European Conference on Heat Treatment		France		
2021	OCT	26-28	Härterei-Kongress [languages: German/English]	Cologne	Germany	http://www.awt-online.org/haertereikongress.html	
2022			28th IFHTSE Congress and European Conference on Heat	Salzburg	Austria		