

Organised by

**ASMET**<sup>®</sup>

THE AUSTRIAN SOCIETY FOR  
METALLURGY AND MATERIALS



# 27<sup>th</sup> IFHTSE CONGRESS & EUROPEAN CONFERENCE ON HEAT TREATMENT 2022

**September 5-8, 2022**

**Wyndham Grand Salzburg Conference Center**

**Salzburg - Austria**

**[www.ifhtse-echt2022.org](http://www.ifhtse-echt2022.org)**

**FIRST ANNOUNCEMENT  
& CALL FOR PAPERS**

in cooperation with



VWT



## CONFERENCE CHAIR

**Eva TROELL,**

RISE IVF Research Institutes of Sweden (Sweden),  
Past-President IFHTSE

**Masahiro OKUMIYA,**

Toyota Technological Institute (Japan)  
President of IFHTSE

**Reinhold SCHNEIDER,**

Univ. of Appl. Sciences Upper Austria (Austria)  
Chairman ASMET Heat Treatment Committee



## INTERNATIONAL SCIENTIFIC COMMITTEE

Arkadii Tikhonov (RU)

Bernard Kunzmann (CH)

Bernard Vandewiele (BE)

Bojan Podgornik (SI)

Christof Sommitsch (AT)

Christophe Stocky (FR)

Danilo Petta (IT)

Eva Troell (SE)

Hans Veltrop (NL)

Hanshan Dong (UK)

Hans-Werner Zoch (DE)

Harshad K. D. Bhadeshia (UK)

Herbert Danninger (AT)

Herwig Altena (AT)

Imre Felde (HU)

Jianfeng Gu (CN)

John Speer (US)

Kamachi Mudali (IN)

Kyozo Arimoto (JP)

Larisa Petrova (RU)

Lauralice Canale (BR)

Marcel Somers (DK)

Masahiro Okumiya (JP)

Massimo Pellizzari (IT)

Mufu Yan (CN)

Nirav Jamnapara (IN)

Pascal Lamsele (FR)

Patrick Jacquot (FR)

Peter Jurči (CZ)

Rafael Colas (MX)

Rafael Mesquita (BR)

Rainer Fechte-Heinen (DE)

Reinhold Schneider (AT)

Robert Goldstein (US)

Ronald Schnitzer (AT)

Scott MacKenzie (US)

Stefan Hock (DE)

Thomas Lübben (DE)

Thomas Waldenmaier (DE)

Till Schneiders (DE)

Tirumalai S. Sudarshan (US)

Undrakh Mishigdorzhijn (RU)

Veronique Vitry (FR)

Harald Leitner (AT)

## NATIONAL ORGANISATION COMMITTEE

Gerald Klösch (voestalpine)

Gerhard Hackl (ASMET)

Katharina Steineder (voestalpine)

Klaus Buchner (Aichelin)

Matthias Wallner (FH-Wels)

Christoph Turk (Böhler)

Peter Seemann (Ebner)

Reinhold Schneider (FH-Wels)

Simona Kresser (FH-Wels)

Volker Strobl (Rübig)

Yvonne Dworak (ASMET)

## IMPORTANT DATES:

Abstract Submission Deadline: January 31, 2022

Notification of acceptance: March 31, 2022

Preliminary program: April 30, 2022

Full Paper Submission Deadline: May 31, 2022

**Please submit your abstracts (300-400 words) via the conference website (online form provided):**

**[www.ifhtse-echt2022.org](http://www.ifhtse-echt2022.org)**

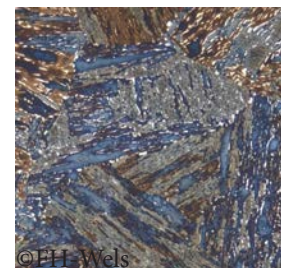
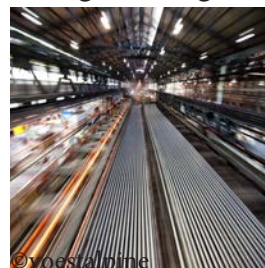


September 5-8, 2022, Salzburg, Austria  
[www.ifhtse-echt2022.org](http://www.ifhtse-echt2022.org)

# TOPICS



- **Thermal processing of Iron and Steels**  
(annealing, hardening, tempering, quenching & tempering, quenching & partitioning)
- **Thermal processing of Non-Ferrous alloys**  
(annealing, age hardening)
- **Thermochemical treatment**  
(carburizing, carbonitriding, nitrocarburizing, nitriding)
- **Surface hardening**  
(induction, laser, electron beam...)
- **Quenching technology**  
(equipment and quenchants)
- **Thermal and thermochemical treatment in additive manufacturing**
- **Coating technology**  
(PVD, CVD, plasma, thermal spray,...)
- **Brazing**  
(vacuum, induction,...)
- **Physical metallurgy in heat treatment and surface engineering**
- **Testing & Characterization of heat & surface treated components**  
(destructive and non-destructive)
- **Modelling and simulation of thermal processes and surface engineering**
- **Residual stresses and distortion**
- **Industrial heat & surface treatment equipment**  
(design, process optimization,...)
- **Artificial intelligence, process control, and reliability in thermal processing and surface engineering**
- **Energy savings and CO2-reduction**  
(process optimization, advanced equipment, alternative fuels,...)
- **Environmental aspects in heat treatment and surface engineering**



## SPECIAL EMPHASIS OF ECHT2022: HEAT TREATMENT IN STEEL PROCESSING

- **Furnace technology** (batch, chamber, walking beam pusher-type,... furnaces)
- **Contiguous heat treatment and processing lines**
- **Heat treatment of Advanced High Strength Steels (AHSS)**
- **New steels and their microstructure – properties relationship**
- **Annealing, Q&T, Q&P at various stages of steel processing**
- **Thermomechanical treatments**

September 5-8, 2022, **Salzburg, Austria**  
[www.ifhtse-echt2022.org](http://www.ifhtse-echt2022.org)

# AWARDS



On behalf of IFHTSE we are glad to announce:

The competition for the Tom Bell Young Author Award (TBYAA).

All presenting authors under 35 years of age are invited to register for the award during abstract submission.

Several poster awards (all presented posters will participate)

## EXHIBITION & SPONSORSHIP

The Conference will feature a technical exhibition that will represent many areas of industry with the latest equipments, facilities, products and services in the field of the conference topics.

So do not miss the opportunity to present your company!

(sponsor packages will be announced soon)

## GENERAL INFORMATION

### DATES

September 5 - 8, 2022

### VENUE

**Wyndham Grand Salzburg Conference Center,**  
Fanny-von-Lehnert-Straße 7, 5020 Salzburg, Austria-  
Located in the city next to the main station.

### BADGES

Congress badges are mandatory for the admission & access to the meeting halls and exhibition.

### LANGUAGE

The official language of the congress is English.  
There will be no translation facilities available for the congress participants.

### MOBILE PHONE

Please keep your mobile phone turned off or in silent mode in all congress rooms.

### PHOTOGRAPHS

The organizer ASMET will take photographs of this event.

We advise that it is not allowed to take pictures by yourself.

## CONFERENCE SECRETARY

ASMET -

The Austria Society for Metallurgy and Materials  
Franz-Josef-Straße, 8700 Leoben, Austria

Mail: ifhtse.echt2022@asmet.at

Tel.: 0043 (0)3842 402 2290

www.ifhtse-echt2022.org

## CURRENCY

Euro (€, EUR),

ATM's are widely used in Austria and are called „Bankomat“. You will find outdoor venues at most branches of Austrian banks.

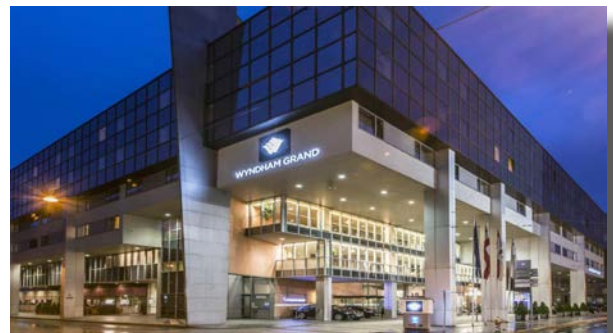
## TIME ZONE

UTC/GMT +2 hours

## PROCEEDINGS

The full text of the accepted papers will be published in the ebook proceedings and issued to attendees on arrival at the Conference.

Certain papers may be considered for publication in different scientific journals.



**ASMET**®

THE AUSTRIAN SOCIETY FOR  
METALLURGY AND MATERIALS

September 5-8, 2022, Salzburg, Austria  
www.ifhtse-echt2022.org