

27th IFHTSE CONGRESS & EUROPEAN CONFERENCE ON HEAT TREATMENT 2022

5 September 2022 - 8 September 2022

**Wyndham Grand Salzburg Conference
Center**

Scientific Programme

**Thermal processing of Iron and Steels
(annealing, hardening, tempering, Q&T, Q&P)**

**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
quenchant)**

**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**

**Control and investigation of heat & surface
treated products**

**Modelling and simulation of thermal and surface
engineering processes**

Residual stresses and distortion

**Industrial heat & surface treatment equipment
(design, process optimization,...)**

Reliability, process control and artificial intelligence in thermal processing

Energy savings (process optimization, CO₂-reduction, hydrogen)

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

Session in memoriam of Sören Segerberg

Induction Heat Treatment