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International Federation for  
Heat Treatment and Surface Engineering

- IFHTSE Congress comes with special symposium on quenching in honour of the late Sören Segerberg
- Tooling 2022 conf in Sweden easy to access with COVID restrictions lifted
- New IFHTSE Executive Committee member: Bernard Kuntzmann

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## Approaching the 27th IFHTSE-Congress and ECHT 2022

More than **90 authors from 22 countries around the globe** accepted the invitation to submit an abstract to the 27th IFHTSE-Congress and ECHT2022. The contributions cover a wide area of heat treatment and surface engineering ranging from classics such as

- furnace equipment and process control,
  - thermal processing of non-ferrous alloys,
  - quenching technology,
  - carburizing/carbonitriding and nitriding/nitrocarburizing
- to
- energy & environment,
  - modelling & simulation as well as
  - advanced surface engineering & coating.

### Symposium in memoriam of Sören Segerberg

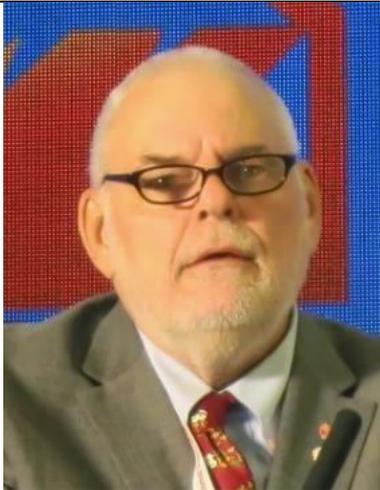
The Congress features this special symposium dedicated to the fields of the seminal research of the late Swedish researcher who passed away last year:

<https://www.ifhtse.org/bulletin/bulletin-archive/bulletin-pdf-docs/2021-05.pdf>



The talks in the In Memoriam Symposium are:

<p><b>Quenching with Aqueous Polymer Solutions</b> <i>Thomas Lübben, IWT Bremen, IFHTSE Fellow</i></p>		<p><b>Comparison of high-severity quenchants for low-carbon steels</b> <i>Lauralice Canale, University of São Paulo</i></p>
<p><b>Quenching for the future - In memoriam of Sören Segerberg</b> <i>Eva Troell, RISE, Gothenburg, IFHTSE Past President</i></p>		<p><b>Current Investigations at Quenching Research Centre</b> Božidar Matijević, University of Zagreb</p>
	<p><b>Birth of SmartQuench - In Memoriam of Sören Segerberg</b> <i>Imre Felde, Obuda University Budapest, IFHTSE Treasurer</i></p>	<p><b>Advanced developments in the field of liquid quenchants State of technique - New Requirements - Technical Perspectives</b> <i>Rainer Braun, Burgdorf KG, Stuttgart</i></p>



**Characterization of Polymer Quenchants - Influence of Agitation**  
*D. Scott Mackenzie,  
Quaker Houghton, USA,  
former IFHTSE President*



**Overview of Researches and Standardization Activities on Test Systems for Quenchant Characterization in Japan**  
*Kyozo Arimoto, Arimotech,  
Osaka, IFHTSE Fellow*

The Congress will focus on the field of **steel processing and the heat treatment of specific steel grades** with special series of lectures.

As announced earlier, additional five keynote lectures will highlight important aspects and trends in the different fields of heat treatment and surface engineering.

In the meantime also the portal for **sponsoring and exhibition** has opened:

[https://ifhtse-echt2022.org/downloads/IFHTSE\\_ECHT-2022\\_ApplicationForm.pdf](https://ifhtse-echt2022.org/downloads/IFHTSE_ECHT-2022_ApplicationForm.pdf)

This site offers a wide variety of possibilities for companies to present themselves, their products and services. You are cordially invited to contact the organizer for further information and to allocate your individual package using the

contact [ifhtse.echt@asmet.at](mailto:ifhtse.echt@asmet.at) or calling: +43 (0) 3842 402 2290.

After a long time of distancing, we are looking forward to bringing together scientists, suppliers, customers and industrial specialists for an extensive exchange of knowledge and information in person and to welcome you in Salzburg.



25 - 27 April 2022  
Conventum, Örebro, Sweden

[tooling2022@asmet.at](mailto:tooling2022@asmet.at)  
[www.tooling2022.org](http://www.tooling2022.org)



## COVID Restrictions in Sweden are lifted!

The Tooling conferences have been held since 1987 and attract speakers and participants from all continents.

The conference topics are cold and hot working tool steels, high speed steels, plastic mold steels, hard metals and cermets, steel/material design, tool steel development, microstructure, properties and performance, production of tool steels, simulations and modelling, additive manufacturing, processing, machining, polishing, heat treatment, surface engineering and coating, wear resistance, fatigue under mechanical and thermal cyclic loads, corrosion resistance, tooling applications, tooling contributions to e-mobility, digitalization in the tool steel and toolmaking industry, sustainable toolmaking including health aspects, circular economy and tooling supply chain.

5 keynote speeches, a panel discussion, and ca 80 scientific/technological presentations will be held at Tooling 2022. The presenters are coming from Austria, Brazil, China, Czech republic, France, Germany, India, Italy, Slovakia, Slovenia, Spain, New Zealand, Sweden, the UK, and the US.

AMEXCI and Bharat Forge Kilsta will be visited on 28 April 2022.

# New IFHTSE Executive Committee member: Bernard Kuntzmann

Born in Strasbourg, France, in 1963, I first studied heat treatment and surface engineering at Saint-Louis University, Brussels, and then graduated to CNAM engineer in metallurgy in Belfort, France from 1981 to 1986.

My professional career started at the company SCR in Switzerland, where I was responsible for the development and optimisation of control systems for carburising atmospheres, in particular for the development of oxygen probes.



I then dedicated myself to furnace engineering, first at the company Herdieckerhof in Germany (not existing anymore), where I was responsible for the development of a short-time nitriding process for the nitriding of truck gears as well as for the optimisation of thermochemical heat treatment in fluidized bed furnaces. Then I moved to vacuum furnace engineering at the company Schmetz, where I developed, among other things, the heat treatment of ADI materials in the vacuum furnace, a technology that had not existed before.

Returning to the heat treatment application, I joined Bodycote in Lüdenscheid. In my role as process engineer, I developed a combined process consisting of gas nitriding, plasma nitriding and polishing (Corridor®) for the heat treatment of transmission parts and subsequently for cold formed brake parts for the automotive industry with the objective to significantly increase wear and corrosion resistance.

I have now been back in Switzerland since 2000 as Managing Director and Technical Director at Listemann AG in Winterthur. I am in charge for the further development of the thermal process technologies, heat treatment, high temperature brazing and electron beam welding. Our main applications today are materials and components for the aerospace, medical and energy industries.

In addition to my professional activities, I am the President of the Swiss Heat Treatment Association for which I also provide training courses. My favourite hobbies include cycling, hiking, travelling and the practice of flight simulation.

# Forthcoming Conferences

All member associations are invited to submit their conferences in English language to be featured here!

<b>2022</b>	<b>APR</b>	<b>25-27</b>	<b>12th Tooling Conference</b>	<b>Örebro</b>	<b>Sweden</b>	<a href="https://www.tooling2022.org/">https://www.tooling2022.org/</a>	
<b>2022</b>	<b>MAY</b>	<b>11-13</b>	<b>Int'l Bosphorus HT Symposium</b>	<b>Istanbul</b>	<b>Turkey</b>	<a href="https://en.bhts2022.com">https://en.bhts2022.com</a>	
<b>2022</b>	<b>JUNE</b>	<b>19-22</b>	<b>6th International Conference on Steels in Cars and Trucks</b>	<b>Milan</b>	<b>Italy</b>	<a href="https://www.sct-2020.com/">https://www.sct-2020.com/</a>	
<b>2022</b>	<b>SEP</b>	<b>5-8</b>	<b>27th IFHTSE Congress and European Conference on Heat Treatment</b>	<b>Salzburg</b>	<b>Austria</b>	<a href="https://www.ifhtse-echt2022.org/">https://www.ifhtse-echt2022.org/</a>	
<b>2022</b>	<b>OCT</b>	<b>10-14</b>	<b>Advances in Materials and Processing Technologies</b>	<b>Portorož</b>	<b>Slovenia</b>	<a href="http://www.AMPT2022.org">www.AMPT2022.org</a>	
<b>2022</b>	<b>OCT</b>	<b>11-13</b>	<b>HK</b>	<b>Cologne</b>	<b>Germany</b>	<a href="https://www.hk-si.de/">https://www.hk-si.de/</a>	
<b>2022</b>	<b>NOV</b>	<b>2-4</b>	<b>HTS - 14th International Exhibition and Conference on Heat treatment</b>	<b>Mumbai</b>	<b>India</b>	<a href="http://www.htsindiaexpo.com">www.htsindiaexpo.com</a>	
<b>2023</b>	<b>APR</b>	<b>24-27</b>	<b>5th International Conference on Heat Treatment and Surface Engineering of Tools and Dies</b>	<b>Hangzhou</b>	<b>China</b>		
<b>2023</b>	<b>MAY</b>		<b>European Conference on Heat Treatment</b>		<b>Italy</b>		
<b>2023</b>	<b>OCT</b>	<b>17-19</b>	<b>Heat Treat 2023</b>	<b>Detroit</b>	<b>USA</b>	<a href="https://www.asminternational.org/web/heat-treat">https://www.asminternational.org/web/heat-treat</a>	
<b>2023</b>	<b>NOV</b>	<b>13-16</b>	<b>28th IFHTSE Congress</b>	<b>Yokohama</b>	<b>Japan</b>		