



ifhtse.org

International Federation for  
Heat Treatment and Surface Engineering

Bulletin 2021 / 01

- Programme of the  
4th International Conference on  
HTSE of Tools and Dies
- Honorary President  
Zoltán Koloszáry
- Previous IFHTSE  
Honorary Presidents

January 2021 no. 76

*The first global **online** IFHTSE Conference:*

## 4th International Conference on Heat Treatment and Surface Engineering of Tools and Dies

Tuesday/Wednesday, January 26-27, 2021

Register to join the conference:

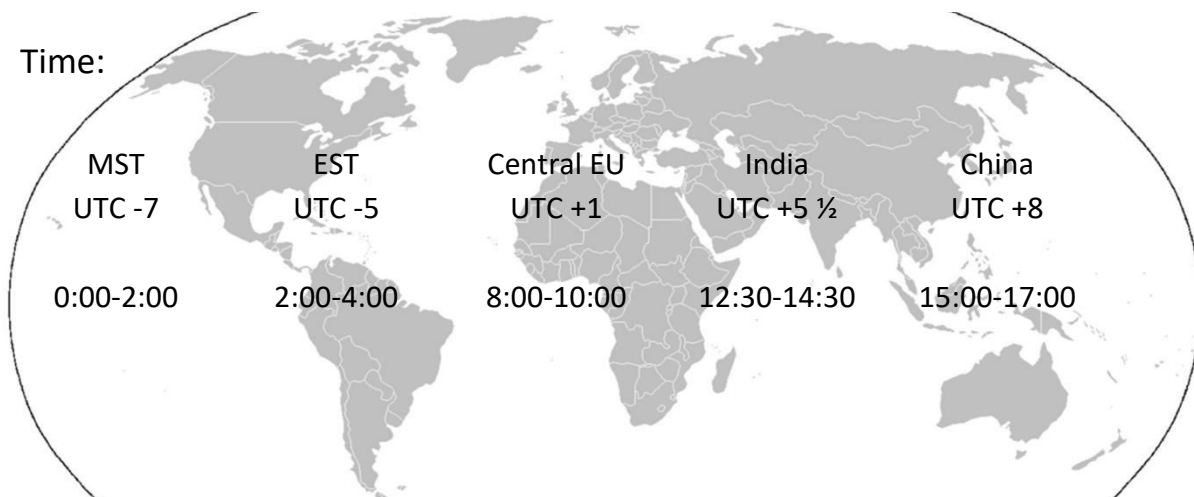
<https://jinshuju.net/f/NA1Ena>

Or scan the QR code:



Participation is free!

Time:



# Programme

January 26 <sup>th</sup>	
15:00-15:15	<b>Opening Address</b> <b>Prof. Xinya Li</b> President of China Heat Treatment Association <b>Dr. Eva Troell</b> President of International Federation for Heat Treatment and Surface Engineering
15:15-15:45	A Wearing Energy Model <b>Prof. Dongyang Li</b> University of Alberta <b>Edmonton, Canada</b>
15:45-16:15	Nanostructuring of Steel Surface Layer and Applications <b>Prof. Yanxiang Zhang</b> Harbin Institute of Technology <b>Harbin, China</b>
16:15-16:45	A Model to Predict the Microstructural Constituents after Tempering of Corrosion Resistant Martensitic Steels <b>Ms. Simona Kresser</b> University of Applied Sciences Upper Austria <b>Upper Austria</b>
16:45-17:15	Multi-scale Design of Modified Layers on the Surface of Tools and Dies and its Applications <b>Dr. Chengsong Zhang</b> Southwest Jiaotong University <b>Chengdu, China</b>
January 27 <sup>th</sup>	
15:00-15:30	Coating Process for High Performance Molds and Dies <b>Mr. Marcus Lartz</b> PD2I France SAS <b>Paris, France</b>
15:30-16:00	Control of Residual Stress of Intensive Quenching Micro-molding Punches <b>Prof. Dengyv Gai</b> Harbin Engineering University <b>Harbin, China</b>
16:00-16:30	Direct Laser Deposition of H13 Tool Steel on Cu-Be Alloy Substrate <b>Prof. Massimo Pellizzari, Mr. Zhaozhao</b> University of Trento <b>Trento, Italy</b>
16:30-17:00	Application of Laser Technology in Thermo-chemical Treatments of Tools and Dies <b>Dr. Yixue Wang</b> Shanghai University of Engineering Science <b>Shanghai, China</b>
17:00-17:30	Coating Developments for Automotive Dies and PVD Systems <b>Dr. Zhongzhen Wu</b> Peking University Shenzhen Graduate School <b>Shenzhen, China</b>

# Zoltán Koloszvály appointed Honorary President of IFHTSE

For the first time in thirty years, IFHTSE has appointed a Honorary President.

Honorary Presidents have rendered outstanding and continuous service to the Federation over many years, not necessarily as President. They have given the Federation its shape and standing in their time and have enlarged its scope, initiated new activities, or renewed and reinforced its structure and been the face of the Federation for the public.

Upon recommendation of the Executive Committee and approval of the Governing Council, IFHTSE confers to Dr. Zoltán Koloszvály this honour for

***“his outstanding leadership to IFHTSE and his dedicated, successful and long-term service as its President and Treasurer”***

One of the most valuable achievements of IFHTSE over the years has been the development of fruitful and mutually beneficial personal contact in groups of leading figures in industry and academic life, among widely differing political regimes, and through some difficult and often dangerous times.

Zoltán Koloszvály has provided outstanding leadership in this respect for several decades, beginning in the 1970s. His multilingual abilities (he will happily communicate in his native Hungarian and Romanian as well as in English and German) have always ensured a good level of understanding in many meetings.



His efforts to maintain IFHTSE as an organization of international relevance in the critical fields of heat treatment and surface engineering have been constant and much valued. For example, after the changes in the USSR/Russia he was central to the restoration of active Russian contributions to IFHTSE, and membership of the Russian Heat Treating Society to IFHTSE.

Dr. Koloszvály participated in his first international conference held in Switzerland 1968. He attended many meetings and conferences of the International

Federation for Heat Treatment (IFHT) from the beginning of the Federation (1971) and he has represented Romania in the Federation from 1986.

In 1973 he was invited to Liverpool University as a visiting researcher by Professor Tom Bell. A three decade scientific collaboration was started with Prof. Bell on nine International projects in the field of Surface Science and Heat Treatment.

He became the Vice President of IFHTSE in 1995 (at the congress held in Teheran, Iran), and President in 1998 at the congress in Florence, Italy. During his period as President of the IFHTSE he worked to strengthen the collaboration between the Federation and partners in Asia and North America. He became the Treasurer of the Federation in 2001 which duty he served until 2016. He became a Fellow of IFHTSE in 2007.

Dr. Kolozsváry has also dedicated much time and energy to specific IFHTSE actions, especially the EU-funded projects and the “Global 21” survey. He was the project leader of this framework for a continuous study on the state of the art and expected development trends in heat treatment and surface engineering in the early years of the 21st century. IFHTSE Global 21 has produced many discussions, workshops and specific papers have been published on global issues, regional overviews science and technology, as well as new technology applications.

Dr. Kolozsváry was born in 1937 in Târgu Mureș, Romania. He graduated with honors from the Technical University of Bucharest in 1959. He started to work in the machine factory „Encsel Mór” (Târgu Mureș) as trainee and soon became the head of the Heat Treatment workshop. In 1963, he was commissioned to build a nitriding furnace and technology for large parts used for knitting machines. This development has ultimately determined his professional and scientific career where he focused on the effect of nitriding technology (salt bath and atmosphere treatments) on the wear of steel parts. He defended his doctoral dissertation in 1970. The year after, he was nominated to establish a Romanian Research Institute for Heat Treatments and Surface engineering. His patents on gas nitriding have been used by several companies related to the German vehicle industry and his company “Plasmatherm” is well noted for plasma nitriding for many different applications. He became the scientific director of the institute “Metalotehnica” 1976.

He has published more than 200 scientific and technological papers in 8 languages, several chapters in Metal Handbooks, ASM Handbooks and Handbook of Residual Stress and Deformation.

## The previous Honorary Presidents of IFHTSE

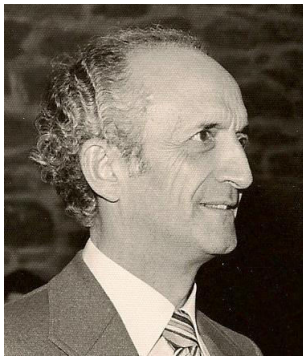
### Dr. H.U. Meyer

As early as 1970, in the preparation meeting for the foundation of the then IFHT, Dr. Meyer, director of Climax Molybdenum, Zurich, Switzerland, took the active role of Chairman of the Founding Committee and was subsequently President until 1974.

He became Honorary President at the 5<sup>th</sup> IFHT Congress in Budapest in 1986



### Urs Wyss



From the same meeting on, Urs Wyss served as Secretary of IFHT until 1988. He wrote the constitution, inspired the early meetings, and fostered fruitful East-West relations.

Wyss combined his organisational and administrative skills with a successful materials engineering career in industry. As manager of the metallurgical laboratory and heat treatment workshop of Maag Zahnräder AG, Zürich, he developed a drip-feed technology using liquid hydrocarbons (Carbomaag) which brought him many international patents. Significant publications and conference contributions resulted from his industrial work.

In 1982, AWT awarded him the Adolf Martens medal. He was President of the Swiss Society for Heat Treatment in 1953, when he was only 30, and was appointed their Honorary President in 1972. He was also an Honorary Member of the Association Technique de Traitement Thermique (ATTT), France. In 2006 he was awarded the IFHTSE Medal.

He became Honorary President of IFHTSE in 1991.

**Save your Early Bird discount until 31 January!**







www.echt-qde-2021.de/registration/

**ECHT**  
European Conference  
on Heat Treatment

**QDE**  
Quenching and  
Distortion Engineering

# Forthcoming Conferences

2021	JAN	26-27	<b>4th International Conference on Heat Treatment and Surface Engineering of Tools and Dies</b>	online	China	<a href="http://www.htse-td.com/htse-td/index.shtml">http://www.htse-td.com/htse-td/index.shtml</a>	
2021	APR	26-28	<b>European Conference on Heat Treatment and 2nd QDE - International Conference on Quenching and Distortion Engineering</b>	online	Germany	<a href="http://www.echt-qde-2021.de">www.echt-qde-2021.de</a>	
2021	SEP	8-10	<b>4th Mediterranean Conference on HTSE</b>	Istanbul	Turkey	<a href="http://mchtse2020.com">http://mchtse2020.com</a>	
2021	SEP	5-9	<b>6th International Conference on Steels in Cars and Trucks</b>	Milan	Italy	<a href="https://www.sct-2020.com/">https://www.sct-2020.com/</a>	
2021	SEP	13-16	<b>International Materials Applications &amp; Technologies</b>	St. Louis	USA	<a href="https://www.asminternational.org/web/imat">https://www.asminternational.org/web/imat</a>	
2021	SEP/ OCT	29-1	<b>14th HTS Int'l Exhibition and Conference</b>	Mumbai	India	<a href="https://www.htsindiaexpo.com/">https://www.htsindiaexpo.com/</a>	
2021	OCT	26-28	<b>HK</b>	Cologne	Germany	<a href="https://www.hk-awt.de/">https://www.hk-awt.de/</a>	
2022	APR		<b>12th Tooling Conference</b>		Sweden		
2022	SEP		<b>27th IFHTSE Congress and European Conference on Heat Treatment</b>		Austria		
2023	April		<b>5th International Conference on Heat Treatment and Surface Engineering of Tools and Dies</b>	Hangzhou	China		
2023	May		<b>European Conference on Heat Treatment</b>		Italy		
2023	NOV	13-16	<b>28th IFHTSE Congress</b>	Yokohama	Japan		