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- 42nd Assembly of the IFHTSE Governing Council
- Tribology collaboration opportunity
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## IFHTSE VICE PRESIDENT 2014-15

The 42nd Assembly of the Governing Council elected Patrick Jacquot as Vice President for the two-year period 2014-15 – he automatically becomes President for 2016-17



*Patrick Jacquot, Director, Bodycote Belgium, France, Italy*

Dr Patrick Jacquot has More than 30 years of industrial experience on Applied Metallurgy:  
**Heat Treatment:** sealed quenching, mesh belts treatments, vacuum heat treatment, oil, salt, gas quenching

**Thermochemical Treatments:** Gas carburizing, low pressure carburising, carbonitriding, gas nitriding, low pressure gas nitriding, plasma nitriding,

**Joining Techniques:** Vacuum brazing, brazing in a mesh belt furnace, induction brazing,

**Surface Treatments:** PVD coatings with arc evaporation, ion implantation of metallic and polymer materials, thermal spraying of carbides and ceramic materials

**Metallographic and Metallurgical Investigations:** on industrial parts

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## IFHTSE: 42ND ASSEMBLY OF THE GOVERNING COUNCIL

The 42nd Assembly of the Governing Council, IFHTSE's main authority, was held on 11 June 2013 in Cavtat, Croatia, in conjunction with the 2nd Mediterranean Conference on Heat Treatment and Surface Engineering. Main outcomes were:

- Reinhold Schneider confirmed as IFHTSE President 2014-15; Patrick Jacquot elected Vice President (details of the Executive Committee for 2014 in the next issue of the *Bulletin*)
- IFHTSE Fellowship 2014: The following nomination was approved:  
**Dr Lynn Ferguson**, Deformation Control Inc, USA  
In recognition of globally acknowledged leadership in the development and practical implementation of principles and practices of mathematical modeling and their application to the benefit and advancement of heat treatment industry and surface engineering
- Forward conference programme: The Assembly approved:

2015

IFHTSE Member

22nd Congress IFHTSE October, Tallinn Estonia	Tallinn UT
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HT&SE 2015: Exhibition and Conference 1st week December, Chennai, India	Tamil Nadu IFHTSE Group
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2016

23rd Congress IFHTSE April/May, NE Coast USA	ASM HTS
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3rd Mediterranean Conference on Heat Treatment and Surface Engineering November, Cairo Egypt	EHTS
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- In response to many requests a 'Certificate of IFHTSE Membership' will be produced
- A new edition of the IFHTSE Handbook (pdf and hard copy) will be compiled
- Accounts for 2012 approved
- 43rd Governing Council Assembly at the 21st Congress in Munich, May 2014

*Patrick Jacquot, continued*

Born 12 August 1956 near Nancy, France

#### **Education**

1978 Diploma of Foundry technician, State Technical School

1979 Diploma of Foundry senior technician, State Technical School; Postgraduate Diploma on Metallurgy Sciences, University of Nancy

Degree in chemical Sciences, University of Nancy

1985 PhD in Materials Science, INPL Nancy, School of Mines

1999 State Engineering Diploma in Materials Science, INSA Lyon

#### **Employment**

1985 – Innovatique SA, R/D Center: Head - HIT Heat treatment Group, Paris

Vide et Traitements Company, heat treatment, plasma surface treatment, PVD coatings, Neuilly en Thelle

R/D Center in heat treatment and PVD coatings, Lyon

2013 Bodycote: Technical Development Department, Lyon, dedicated to technical support of 33 heat treatment plants and customer developments

Director of the Metallurgy Central Laboratory, Lyon

#### **Memberships**

Member of the scientific committee of French heat treatment and surface treatment association (A3TS)

Member of the scientific committee of the main French Technical Center in Mechanics: CETIM

President of the French Heat Treatment committee of the CETIM

Member of the French Association of Metallurgy and Materials (SF2M)

Member of the Executive Committee of the International Federation of Heat Treatment and Surface Engineering

#### **Publications, Patents**

Many papers on heat treatment, thermochemical treatments, plasma processes, materials research on Heat Treatment and related topics of steels, titanium alloys, nickel base alloys.

Several International Patents

#### **Awards**

- **United Nations Medal** for service as peace keeper in the UN Interim Force in Lebanon
- **French Medal** of the Nation's Recognition for External Services

## **Tribological behaviour of nanostructured alloys**

**The University of Southampton, UK, offers a collaboration opportunity** to work on a novel project entitled 'Tribological behaviour of

nanostructured alloys processed by severe plastic deformation (SPD) and subsequent coatings'.

Several different processing techniques through severe plastic deformation (SPD) have been rapidly developed during the last ten years. All of these procedures are capable of fabricating ultrafine-grained (UFG) or nanostructured materials. UFG metals and alloys processed by SPD techniques have superior mechanical properties, such as high strength with good ductility and excellent superplasticity at lower temperature and higher strain rates. Currently, The University of Southampton is the only university in UK and one of the only two in the European Union, which has the unique SPD processing facility including equal channel angle processing (ECAP) and high pressure torsion (HPT).

Primary research from the University of Southampton recently has shown very promising results from SPD-processed Ti alloys with several publications. In particular, SPD plus appropriate coatings have shown further improvement of the tribology behaviour of Ti alloys, which indicate a great potential for new generation of future biomedical materials. The main aim of this project is to future expand the study on the tribological behaviour of nanostructured titanium alloy, including microstructural evolution, biocompatibility, corrosion and wet fretting-corrosion behaviour of nanostructured Ti alloys, processed by SPD and subsequently deposited with different coatings. The overall objectives of the project are three-fold: (1) To optimise the processing techniques of Ti alloys through SPD; (2) To obtain a detailed understanding of the microstructural changes and their influence on the wear and corrosion properties after SPD and coatings; (3) To explore potential medical applications of SPD-processed Ti and other alloys.

Contact Dr Nong Gao [n.gao@soton.ac.uk](mailto:n.gao@soton.ac.uk)

European Conference on Heat Treatment  
and 21st IFHTSE Congress

**Heat Treatment and Surface Engineering - New Trends and Developments**

12–15 May 2014, Munich, Germany

**First announcement and call for papers - Details and a link for the hotel booking on**  
[www.HeatTreatmentConference-Munich2014.de](http://www.HeatTreatmentConference-Munich2014.de)

Accommodation is limited! You are advised to book early

## Conference Diary 2013

<b>PRICM 8: 8th Pacific Rim International Conference on Advanced Materials and Processing</b> 4-9 August - Waikoloa HI, USA	<a href="http://www.tms.org/M">www.tms.org/M</a>	
<b>IVC-19 + +: International Vacuum Congress and related events</b> 9-13 September - Paris, France	<a href="http://www.ivc19.com">www.ivc19.com</a>	
<b>Heat Treatment 2013 Moscow: Exhibition and Conference</b> 10-12 September - Moscow, Russia	<a href="http://www.htexporus.com">www.htexporus.com</a>	
<b>EuroPM 2013 (Powder Metallurgy European Conference 2013)</b> 15-18 September - Gothenburg, Sweden	<a href="http://www.epma.com/pm2013">www.epma.com/pm2013</a>	
<b>ASM Heat Treating Society 27th Conference and Exposition</b> 16-18 September - Indianapolis, Indiana, USA	<a href="http://www.asminternational.org/">www.asminternational.org/</a>	
<b>Heat Treatment Conference (Spanish language)</b> 25 September - Bilbao, Spain	<a href="http://metalspain.com/TT-2013-">http://metalspain.com/TT-2013-</a>	
<b>HK 2013</b> 9-11 October - Wiesbaden, Germany	<a href="http://www.awt-online.org">www.awt-online.org</a>	
<b>21st Conference on Materials and Technology</b> 13-15 November - Portoroz, Slovenia	<a href="http://icmt21.imt.si/en/home/">http://icmt21.imt.si/en/home/</a>	
<b>Materials in heat treatment (Czech, Slovak, English languages)</b> 26-27 November - Jihlava, Czech Republic	<a href="mailto:asociacetz@grbox.cz">asociacetz@grbox.cz,</a> <a href="http://www.asociacetz.cz/conference-en.html">www.asociacetz.cz/conference-en.html</a>	

### 1st European Steel Technology and Applications Conference 2014

The French national steelmaking conference (Journées Sidérurgiques), organised by the French Steel Federation, has been held in Paris since 1980. This year, FFA, VDEh (Germany) and IFHTSE members ASMET (Austria) and Jernkontoret (Sweden) are adding a new event 'European Steel Technology & Applications (ESTAD)'.

The 1st ESTAD will be held along with the 31st Journées Sidérurgiques, 7-8 April 2014 in Paris. An exhibition for equipment and service suppliers and steelmakers will be included.

Further information available on [www.acier.org](http://www.acier.org), email: [contact.jsi@ffa.fr](mailto:contact.jsi@ffa.fr)

*Conference Diary continued*

## 2014

### ICIT & MPT

9-11 April - Ljubljana, Slovenia

[www.tecos.si/icit](http://www.tecos.si/icit)

### 21st Congress IFHTSE combined with European Conference on Heat Treatment and Surface Engineering

12-15 May - Munich, Germany

[www.HeatTreatmentConference-Munich2014.de](http://www.HeatTreatmentConference-Munich2014.de)



### Steel in cars and trucks

15-19 June - Braunschweig, Germany

[www.SCT2014.com](http://www.SCT2014.com)



### SMT 28

15-18 June - Finland

[sudarshan@matmod.com](mailto:sudarshan@matmod.com)

### 5th International Conference on Thermal Process Modeling and Computer Simulation

[Co-located with Aeromat 2014]

16-18 June - Orlando Florida, USA

[robert.wood@ifhtse.org](mailto:robert.wood@ifhtse.org)



### HK 2014

22-24 October - Cologne, Germany

[www.awt-online.org](http://www.awt-online.org)

## 2015

### 22nd Congress IFHTSE

October - Tallinn Estonia



### HT&SE 2015: Exhibition and Conference

1st week December - Chennai, India



## 2016

### 23rd Congress IFHTSE

April/May - NE Coast USA



### 3rd Mediterranean Conference on Heat Treatment and Surface Engineering

November - Cairo Egypt

