

Preliminary Program

1st International Conference on Energy and the Future of Heat Treatment and Surface Engineering

The Emerald Hotel, Bangkok, THAILAND

25 - 27 June 2012

Monday 25 June 2012

Time	Session	
08:00 - 09:00	Registration	
Time / Room	Panorama 1& 2 (14th Floor)	
09:00 - 09:20	Opening Ceremony Assoc. Prof. Dr. Werasak Udomkichdecha, Executive Director, Natioanal Metal and Materials Technology Center, Thailand & Prof. XU Kewei, IFHTSE President, China	
09:20 - 10:00	Plenary Lecture 1 : Surface Engineering using Friction-Stir Processing by Dr. Stan Lynch, Defence Science and Technology Organisation, Australia	
10:00 - 10:40	Plenary Lecture 2 : Active Screen Plasma Nitriding : ASPN by Dr. Pierre Collignon, Partner Development Industry International, France	
10:40 - 11:00	Refreshment	
Time / Room	Panorama 1	Panorama 2
	Session : New Technology 1 Chair: Robert Wood, Secretary General IFHTSE Co-chair : Dr. John TH Pearce, MTEC, Thailand	Session : Heat Treatment and Welding Chair: Dr Vladimir Skorobogatykh, CNIITMASH Moscow, IFHTSE Exec member Co-chair : Dr. Sasawat Mahabunphachai, MTEC, Thailand
11:00 - 11:20	OP 1 : New ecological fluid bed nitrocarburizing technologh for improvement properties X160CrMoV121 steel by Dr. Tomasz Babul, Institute of Precision Mechanics, Poland	OP-2 : Characteristics of Microstructure, Microhardness, and Oxidation of FSW and MIG Welded Steels Donq Bok Lee, Sunqkvunkwan University, South Korea
11:20 - 11:40	OP 3 : PreNitLPC® - the economic option for vacuum carburizing by Piotr Kula, Institute of Materials Science & Engineering, Lodz University of Technology, Poland	OP-4 : The influence of welding parameters and heat treatment on the microstructure of lean duplex stainless steel S32101 welds Jerzy Njaaai, bInstitute of Welding, Poland
11:40 - 12:00	OP-5 : Steels of Optimal Chemical Composition Manufacturing Combined with the Intensive Quenching as an Important Step in Saving Energy and Making Environment Cleaner by NIKOLAI KOBASKO, Intensive Technologies Ltd, Kyiv, Ukraine and IQ Technologies Inc., Akron, USA	OP-6 : Phases Transformation Sequence in Isothermally Heat-Treated Cast Fe-22wt%Cr-3.2wt%Mo-0.037wt%C Duplex Stainless Steel Surasak KUJIMALEE, Maejo University, Thailand.
12:00 - 14:00	Lunch and Exhibition	
Time / Room	Panorama 1& 2 (14th Floor)	

14:00 - 14:40	<p style="text-align: center;">Chair : Prof Reinhold Schneider, TU Wels Austria, IFHTSE Vice President Plenary Lecture 3 : Global Research Trends in Heat Treatment and Surface Engineering by Dr. Kiyoshi Funatani, IMST Institute, Japan</p>	
14:40 - 15:20	<p style="text-align: center;">Plenary Lecture 4 : The new Trend in Carburizing and Heat Treatment with Low Pressure Carburizing (LPC) and High Pressure Gas Quenching (HPGQ) by Mr. Gunter Busch, ALD Vacuum Technologies GmbH, Germany</p>	
15:20 - 15:40	Refreshment & Poster Presentation 1	
Time / Room	Panorama 1	Panorama 2
	Session : New Technology 2 Chair : Prof Reinhold Schneider, TU Wels Austria, IFHTSE Vice President Co-chair : Dr. John TH Pearce, MTEC, Thailand	Session : Surface Hardening Chair : Dr Zoltán Kolozsváry, Plasmaterm SA, Romania, IFHTSE Treasurer Co-chair : Mr. Thanaporn Korad, MTEC, Thailand
15:40 - 16:00	OP-7 : Design and Technological Development of 9 pct Chromium Creep-Resistant Steels for TPP and NPP Equipment by Dub A., Skorobogatykh V., Schenkova I., Kozlov P., Dub V. PJSC RPA "CNIITMASH", Russian Federation	OP-8 : Apply of Flow Analysis in Improving Condition of Gas Nitriding in Vacuum Furnace Teerapong Harnwirojkun, National Metal and Materials Technology Center, Thailand
16:00 - 16:20	OP-9 : Protective Atmosphere Induction Heating Paul Stratton, Matscribe UK, Germany	OP-10 : Mathematical Modeling of Mechanical Properties of Quenched and Tempered Steel Components Božo Smolian, University of Rijeka, Croatia
16:20 - 16:40	OP-11 : Energy-Efficient and Resource-Saving Technologies of Thermo-Chemical Treatment of Steels Prof. Dr. Larisa Petrova, Moscow Automobile and Road Construction State Technical University, Russian Federation	OP-12 : Deep Cold Rolling Process on AISI 4140 Steel and Optimization of Surface Roughness by Response Surface Methodology P. R. Prabhu, Manipal Institute of Technology, India
17:00 - 18:00	[IFHTSE Executive Committee meeting]	
18:00 - 20:00	Banquet & Sponsor Presentations	

Tuesday 26 June 2012		
Session		
Time / Room	Panorama 1& 2 (14 th Floor)	
09:00 - 09:40	Chair : Dr Paul Stratton, MATSCRIBE UK, IFHTSE Exec member Plenary Lecture 5 :	
09:40 - 10:20	Plenary Lecture 6 : Dr. Chatchai Somsiri, ISIT, Thailand (To be confirmed)	
10:20 - 11:00	Refreshment & Poster Presentation 2	
Time / Room	Panorama 1	Panorama 2
	Session : New Technology 3 Chair : Dr Kiyoshi Funatani, MST Inst Japan, IFHTSE Exec member Co-chair : THAILAND	Session : Surface Engineering 1 Chair : Dr Tomas Babul, IMP Poland Co-chair : Dr. Panadda Sheppard, MTEC, Thailand
11:00 - 11:20	OP-13 :	OP-14 : Erosion- Corrosion in Coal Based Power Plants and Possible Solutions – a Review Vikas Chawla, B.M.S.C.E., India
11:20 - 11:40	OP-15 [Thailand]	OP-16 : FeAl and FeCrAl as Alternative Coatings for NiAl Hathaipat Koiprasert, National Metals and Materials technology center, Thailand
11:40 - 12:00	OP-17 [Thailand]	OP-18: Reactive Gas Feeding Technique in Production of Titanium Nitride Film by Magnetron Sputtering Witthawat Wongpisan, National Metal and Materials Technology Center, Thailand
12:00 - 14:00	Lunch and Exhibition	
Time / Room	Panorama 1& 2 (14 th Floor)	
14:00 - 14:40	Plenary Lecture 7 : Dr. Twarath Sutabutr, Department of Alternative Energy Development and Efficiency, Ministry of Energy, Thailand (To be confirmed)	
14:40 - 15:00	Refreshment	
Time / Room	Panorama 1	Panorama 2
	Session : New Technology 4 Chair : Dr Paul Stratton, MATSCRIBE UK Co-chair : Mr. Thanaporn Korad, MTEC, Thailand	Session : Surface Engineering 2 Chair : Prof Božo Smoljan, University of Rijeka Croatia Co-chair : Dr. Panadda Sheppard, MTEC, Thailand
15:00 - 15:20	OP-19 : Energy Saving Model for the Heat Treatment of Castings Mr. Ronq Yiming, Worcester Polytechnic Inst. USA	OP-20 : Effect of High Power Diode Laser Surface Alloying of Tool Steels Miroslaw Bonek, Silesian University of Technology, Poland
15:20 - 15:40	OP-21 Effect of Aging Temperature and Aging Time on the Characteristics of Thermo mechanically and Conventionally Treated Stir Cast Iron Powder Reinforced Al Alloy Metal Matrix Composites S.S.Sharma. Manipal Institute of Technology. India	OP-22 : Modification of steel surfaces using the laser energy Olga Chudina, Moscow Automobile and Road construction State Technical University (MADI), Russian Federation

15:40 - 16:00	OP-23 Effect of Heat-treatment on the Chemical Stability of Sealing Glass for Solid Oxide Fuel Cells Teng Zhang, Fuzhou University, China	OP-24 : Effect of P Addition on the Thermal Stability of Nanocrystalline Ni-Co-Fe-P Coatings DAI Pin-qiang, Fuzhou University, China
16:00 - 16:20	OP-25 Measurement of Thermal Expansion Coefficient of Metal Matrix Composites Dr Jagannath K, Manipal Institute of Technology, India	OP-26 : SiC Coating on Graphite By Sintering Of Si Deposited Via C-Electrophoretic Deposition (DCEPD) Hakime salehi alireza aahaeaaMaterial and Energy Research Center, Iran
Time / Room	Panorama 1&2 (14th Floor)	
16:20	Closing Ceremony	
Wednesday 27 June 2012		
Time	Session	
09:00 - 17:00	Networking & Industrial Visit	