2nd Announcement
Workshop on thermal spray and laser clad coatings

COATINGS FOR HIGH TEMPERATURE APPLICATIONS

14-15 October, 2014
Plzeň, Czech Republic
MAIN OBJECTIVES

The objective of the workshop is to present the insight to the principle, technical aspects and applications potential in the high temperature conditions of the two modern technologies of thick coatings deposition: thermal spraying and laser cladding. The basics, required manufacturing and technological conditions as well as the case studies will be presented by the most relevant speakers. The comparison of the two related technologies, in many cases competitive, will bring deeper understanding of the field of coatings for high temperature applications.

WHO SHOULD ATTEND

Managers of sophisticated productions, product development and design engineers, technologist, scientists, lecturers and students interested in the field of surface engineering.

SPEAKERS AND TOPICS

Prof. Lech Pawlowski (UniLim, France)
Laser treatment of films and coatings

Prof. Petri Vuoristo (TUT, Finland)
Comparison of properties of coatings for high temperatures by advanced laser cladding and thermal spray technologies

Prof. Pavel Chráska (IPP AS CR, Czech Republic)
Coatings for glass industry

Prof. Wojciech Zorawski (TU Kielce, Poland)
Microstructure and Mechanical Properties of Axial-Injection Suspension Plasma Sprayed ZrO2-8Y2O3 coatings

Dr. Giovanni Bolleli (Unimore, Italy)
Tribology of metallic and hard metal thermal spray coatings at high temperature

Dr. Gerd Paczowski (CTU Chemnitz, Germany)
Thermomechanical post-treatment of thermal sprayed coatings on stainless steel substrate to increase the tribological durability

Dr. Michael Lutz Berger (IWS Dresden, Germany)
Behavior of hardmetal compositions during spraying and high temperature coating service

Dr. Sophie Costil (UTBM, France)
Thermal spraying and hybrid processes: the use of laser technology

Dr. Tomáš Chráska (IPP AS CR, Czech Republic)
Properties of Novel Hybrid Water/Gas DC Arc Plasma Torch

Dr. Radek Enžl (Sulzer Metco, Germany)
Improving Plasma Spray Efficiency Through the Application of Advanced Cascade Gun Technology

Dr. Michaela Prantnerová (VZU Plzen, Czech Republic)
HVOF coatings for power industry

Ondřej Soukup (LaserTherm, Czech Republic)
Laser processing using high power diode lasers in heavy industry

PAYMENT DETAILS
Payment in Euros:
IBAN:CZ5455000000001063008661
B.I.C.:RZBCCZPP
Note for the recipient: participants name

Payment in CZK:
Account number: 106 300 8645 / 5500, Raiffeisenbank, a.s.
Var. symb: 47718684
Note for the recipient: participants name

PAYMENT DEADLINE
July 30th, 2014

PAYMENT INCLUDES
Workshop fee
Lunches and Coffee breaks
Brewery visit
Social dinner

WORSHKOP FEES
For ETSA members – 160 Eur or 4500 Kč
For non-members – 180 Eur or 5000 Kč

TRAVEL AND ACCOMODATION IN PLZEŇ

Travel and accommodation information can be found:

http://www.pilsen.eu/tourist/information/transport-to-pilsen/


VENUE

Vědeckotechnický park Plzeň, a.s.
Teslova 3
301 00 Plzeň

HOW TO GET THERE

Bus no. 15,18,29,30 – Bus stop Borská pole
5 minutes walk

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14-15 October, 2014, Plzeň, Czech Republic

Program

Thursday 14th October

8:30 - 9:30   Registration

9:30-9:45   Lech Pawłowski  Opening; ETSA presentation

9:45-10:30  Pavel Chráska  Thermal Coatings for Glass Industry

10:30-11:15 Tomáš Chráska  Properties of Novel Hybrid Water/Gas DC Arc Plasma Torch

11:15-11:30  Coffee break

11:30-12:15  Michael Lutz Berger  Material aspects of thermal spraying of hardmetal compositions

12:15-13:00  Giovanni Bollelli  Tribology of metallic and hardmetal thermal spray coatings at high temperature

13:00-13:45  Lunch break

13:45-14:30  Wojciech Zorawski  Microstructure and Mechanical Properties of Axial-Injection Suspension Plasma Sprayed ZrO2-8Y2O3 coatings

14:30-15:15  Radek Enžl  Improving Plasma Spray Efficiency Through the Application of Advanced Cascade Gun Technology

15:15-15:30  Coffee break

15:30-16:15  Michaela Prantnerová  HVOF coatings for power industry

17:00  Pilsen Urquel Brewery visit

19:00  Workshop dinner
Wednesday 15th October

8:30- 9:30 ETSA meeting

9:30-10:15 Lech Pawlowski Laser treatment of films and coatings

10:15-11:00 Sophie Costil Thermal spraying and hybrid processes: the use of laser technology

11:00-11:15 Coffebreak

11:15-12:00 Gerd Paczkowski Thermochemical post-treatment of thermal sprayed coatings on stainless steel substrates to increase tribological durability

12:00-12:45 Petri Vuoristo Comparison of properties of coatings for high temperatures by advanced laser cladding and thermal spray technologies

12:45-13:30 Lunch Break

13:30-14:00 Ondřej Soukup Laser processing using high power diode lasers in heavy industry

14:30-14:45 Tomáš Křenek Lasers in New Technologies Research Centre

14:45-15:00 Jiří Martan Measurement of optical properties of coatings and surfaces

15:00-16:00 Laboratory visit