

Cross-border Expert Talks

Topic: „Carbide-, Cermet- and Ceramic Coatings“

Invitation

On behalf of the organizers we would like to invite you to attend a special meeting taking place at the Institute of Plasma Physics, Czech Academy of Sciences, Prague.

As the headline of the program suggests (“Cross-border Expert Talks”) it is a meeting jointly organized by the Austrian Society for Metallurgy and Materials (ASMET) and the Institute of Plasma Physics of CAS (IPP). In particular, ASMET Technical Committee on Thermal Spraying has approached Department of Materials Engineering of IPP with a suggestion to exchange knowledge on various aspects of thermal spraying of Carbide-, Cermet- and Ceramic Coatings “across the border”.

The program offers several invited lectures and other contributions by the experts from Austria and the Czech Republic and also from Germany. For example, participations has been promised by Prof. Dr. Robert Vaßen, Deputy Director and Head of Department of Materials for power plant technology, Forschungszentrum Jülich; Prof. Dr. Walter Lengauer, Head of the Physical Metallurgy Group, Vienna University of Technology; Dr. Lutz-Michael Berger, Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Dresden and several other speakers from Austria. From the Czech side a view pic from the perspective of industrial applications will be given by the former CEO and Chairman of the Board of Škoda Power and ČKD Group Dipl.-Ing. Jan Musil, PhD, who himself had been in the past an excellent scientist in the field of thermal spray. Current Czech research in the field will be presented by Ing. Šárka Houdková - Šimůnková, Ph.D. from the Centre of New Technologies and Materials, University of West Bohemia in Plzeň and two researchers of the Institute of Plasma Physics - Ing. Tomáš Chráska, PhD. and Ing. Radek Mušálek, PhD.

The second day of the seminar will continue with two field trips to modern thermal spray shop of Solar Turbines EAME Ltd. company in the industrial zone near Žatec and the second to the Laboratory of Plasma Technologies of IPP in Prague.

Anyone interested in thermal spraying is welcome to attend, especially people dealing with hard coatings. Information on the program, registration, fee, accommodation, etc. is provided below. Since the number of bus seats available the field trip is limited, late registrations will not be considered.

Official language of the event is English with no simultaneous translation.

Dr. Reinhard Polak
ASMET

Prof. Pavel Chráska
IPP CAS

Cross-border Expert Talks

Topic: „Carbide-, Cermet- and Ceramic Coatings“

Date: 2nd and 3rd of June 2016

Venue: Institute of Plasma Physics of the CAS

Za Slovankou 1782/3, 182 00 Praha 8 Program

2. June 2016 – Lecture day

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| 13.00 h | Welcome address (IPP CAS) |
| 13.10 h | Activities of the Institute of Plasma Physics of the CAS (IPP CAS) |
| 13.30 h | opening lecture: TS - Integral Part of Advanced Technologies in Czech Industry (J. Musil; former Chairman&CEO of CKD GROUP and of SKODA POWER) |
| 13.50 h | Hard Metal and Cermet Tools: Industrial Grades and Applications (W. Lengauer; TU Vienna) |
| 14:10 h | Hard Metal Coatings – Developments and Trends (L.-M. Berger; IKTS Fraunhofer) |
| 14.30 h | Coffee break |
| 14:50 h | Thermal Barrier Coatings – State of the Art (R. Vaßen; FZ Jülich) |
| 15.10 h | Properties and Applications of Hybrid Water Stabilized Plasma Gun (T. Chráska; IPP CAS) |
| 15:30 h | Suspension Plasma Spray – Coatings for Industrial Applications (N. Curry; Treibacher Industrie AG) |
| 15.50 h | Suspension Spraying with Hybrid Water Stabilized Plasma Gun (R. Mušálek; IPP CAS) |
| 16.10 h | HVOF Coatings for High Temperature Applications in Power Engineering (S. Houdková-Šimůnková; New Technologies Research Centre, Univ. of West Bohemia) |
| 16.30 h | Coffee break |

16.50 h Laser Cure of Thermally Sprayed Hardmetal Coatings (J. Norpoth; AC2T research GmbH)

17.10 h Nitrided Layers and their Tribological Effectiveness (E. Badisch; AC2T research GmbH)

Evening come together - dinner

3. June 2016 – Excursion day

09.00 h departure for Solar Turbines EAME s.r.o. in Žatec

~ 10.30 h start of the tour of ST (lunch will be provided after the tour)

14.30 h visit of Laboratory of Plasma Technologies, IPP CAS Prague [Information](#)

Registration:

Except for Austrian attendees and invited speakers registered directly through Dr. Reinhard Polak, Chair of ASMET Technical Committee on Thermal Spraying (reinhard.polak@aon.at), all other participants will register by filling in the application form on the following address: <http://goo.gl/forms/2nZSXtfgEY>

Attendees' registration fee is 3250 CZK or 120 €. The fee includes the Thursday evening dinner, Friday "lunch on the way", transportation to and from the field trips, refreshment/coffee breaks, etc.

Deadline for registration and payments of the fee is May 20th, 2016.

Payments:

Account Name: Ustav fyziky plazmatu AV CR, v. v. i.

Address: Za Slovankou 1782/3, 180 00 Prague 8, Czech Rep.

Bank Name : Ceskoslovenska obchodni banka a.s., Na Porici 24, 115 20 Prague 1, CZ in EURO:

Account No : 164465621/0300; IBAN number: CZ11 0300 0000 0001 6446 5621 in CZK:

Account No : 101256398/0300 IBAN number : CZ89 0300 0000 0001 0125 6398

Receipts will be distributed during the event on request.

Hotel Information:

A block of rooms is reserved at 4-star Hotel DUO, Teplická 492, 190 00 Praha 9, Czech Rep., T: +420 266 131 030; Web: www.hotelduo.cz, GPS: 50.126588, 14.485854.

Hotel is situated very near the metro line "C" (station "Střížkov"), only 12 min by metro to the city center (station "Museum"), and one stop from the Institute of Plasma Physics (station "Ladvi". This metro line stops also at the Main railways station "Praha hlavní nádraží"

Participants are requested to arrange the accommodation by themselves on hotelbooking@hotelduo.cz. There will be a special rate when you use password “crossborder”.

Venue:

The meeting will take place in the central lecture room of the main building of the Institute of Plasma Physics on the campus of the Czech Academy of Sciences, Za Slovankou 1782/3, Praha 8 (see the map address below). Standard means for lecturers will be available.

<https://www.google.cz/maps/place/Za+Slovankou+1782%2F3,+Libe%C5%88,+182+00+Praha-Praha+8/@50.1233199,14.4619161,17z/data=!3m1!4m2!3m1!1s0x470beb5cad909449:0x9724fa84abc2b51c>

Additional information can be obtained either from ASMET: Dr. R. Polak (reinhard.polak@aon.at) or for IPP CAS from prof. P. Chráska (chraska@ipp.cas.cz)