

REGISTRATION FORM

Workshop "Surfaces and Thin Films - Analytics in Practice"

Date: June 29 - 30, 2016 Empa Akademie, Überlandstraße 129, 8600 Dübendorf, Switzerland Location:

Online registration: www.empa-akademie.ch/efds

Contact details

Title	Last name	First name
Company / Orc	janisation / Institute	
	,	
Phone	Fax	Email
Street		P.O. Box
State	Country	Postcode/City

Workshop

- I would like to participate at the Workshop on June 29 30, 2016.
- I am an EFDS member or an Empa employee.

Social Evening

I would like to participate at the Social Evening on June 29, 2016 (Booking required).

Date, Stamp, Signature

The registration fee is 990,00 EUR, 890,00 EUR for EFDS members, 495,00 EUR for Empa employees. Please remit the registration fee after receipt of invoice.

GENERAL INFORMATION

Contact : Grit Kotschenreuther

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Empa Akademie 8600 Dübendorf Switzerland www.empa-akademie.ch

Organization:

Venue:

European Society of Thin Films Gostritzer Straße 63 01217 Dresden Germany www.efds.org

Online registration:

Please use the online registration: www.empa-akademie.ch/efds

Fees:

Registration fee: 990.00 EUR Registration fee for EFDS members: 890.00 EUR Registration fee for Empa employees: 495,00 EUR

Workshop fees are free of VAT according to §4 (22a) UStG (German value-added tax law).

Fee Covers:

The registration fee includes the participation of the workshop, conference proceedings, coffee and lunch breaks and the Social Evening. Please note, that the number of participants is limited, so please register early. Please use the registration form and complete and return this form until June 15, 2016 to: Fax: +49 351 8718431 or Email: kotschenreuther@efds.org. Upon receipt of your registration, you will receive the invoice/ confirmation. Please remit the amount after receiving our invoice.

Terms

The general terms and conditions of sale of the EFDS apply (www.efds.org/aqb). Cancellations must be made in written form.

In case of the cancellation of your registration before June 15, 2016, a cancellation fee of 50,00 EUR will be charged. After this date, a refund is not possible. A substitute will be accepted anytime.

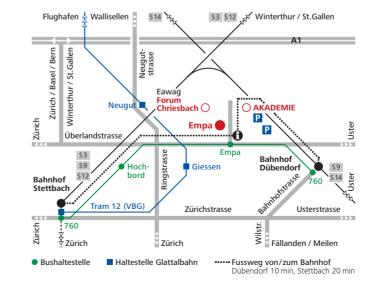
RECOMMENDATION FOR HOTEL



Zürichstraße 94 / 96 8600 Dübendorf Switzerland

Promo Code: FMPA46 Deadline: May 27, 2016 Room Rate: 130,00 CHF per night (City Tax is not included) Tel: +41 44 8021282 sonnental@sorellhotels.com

www.sorellhotels.com/de/sonnental/duebendorf







Workshop

June 29 - 30, 2016 - Dübendorf (Zürich), Switzerland



Surfaces and Thin Films

- Analytics in Practice



Member **FLASMA** PLASMA



PREFACE

Surfaces and their specifically designed properties are nowadays integral parts of a very wide range of products. Knowing what is at a surface is a prime prerequisite for designing and controlling the functional behavior of such surfaces. Today a broad variety of surface analytical techniques are available, which provide targeted and detailed insights into the chemical and structural properties of surfaces and thin films. They are indispensable tools for the successful development of surface treatments and coatings.

EFDS and Empa are co-organizing this workshop that will provide you with an overview of the most important techniques for surface and thin film characterization. These are notably

- lon beam analysis (RBS, ERDA, NRA)
- XPS (ESCA)
- ToF-SIMS
- Electron microscopy (STEM, SEM)
- Scanning probe microscopies (AFM, STM, MFM)
- XRD and X-ray tomography
- Surface mechanical properties (hardness, modulus)

The speakers of this seminar, coming from industry as well as from academia in three different countries, are leading experts in their fields, every one of them with decades of experience in applied surface analysis. As this workshop addresses primarily practical issues of surface analysis, the presentations will contain many examples on how the presented techniques are applied to solve problems in producing surfaces and coatings for specific applications. After each presentation of 60 minutes there will be sufficient time for discussing various aspects. The breaks and the dinner on the first day will provide ample opportunities for exchange and in-depth discussions.

PROGRAM COMMITTEE

Prof. Wolfgang Diehl

Fraunhofer Institute

ing and Thin Films,

Braunschweig, D



Dr. Jörg Patscheider Empa, Swiss Federal Laboratories for Materials Science and Technology, Dübendorf. CH



Dr. Sven Richter European Society for Surface Engineerof Thin Films, Dresden, D

Social Evening - Wednesday, June 29, 2016

18:30 - 22:00 Get-Together at the ETH Zürich "Dozentenfoyer"



PROGRAM

Wedn	esday, June 29, 2016	Thursda
09:00	Welcome and Opening Dr. Jörg Patscheider Empa, Dübendorf, CH	09:00
09:15	Keynote: Introduction to Materials Characterization: the Need for Complementary Techniques Prof. Ivan Petrov University of Illinois, Urbana-Champaign, USA	10:15 10:45
10:30	Coffee Break	
11:00	Quantitative Surface Analysis by MeV Ion Beam Techniques Dr. Max Döbeli ETH Zürich, Zürich, CH	12:00
12:15	Lunch Break	
13:30	XPS surface analysis in industry: practical examples, challenges and risks Dr. Samuele Tosatti SuSoS AG, Dübendorf, CH	13:15 14:30 16:00
14:45	Getting to know the surface-near chemistry: Time-of-Flight Secondary Ion Mass Spectrometry (ToF-SIMS) and Low Energy Ion Scattering (LEIS) Dr. Birgit Hagenhoff tascon GmbH, Münster, D	Program is s
16:00	Coffee Break	
16:30	How X-ray techniques can assist you in developing new coatings Dr. Alex Dommann Empa, St. Gallen, CH	Note 18:00
17:45	End of day 1	18:30 -

PROGRAM

lay, June 30, 2016

Electron microscopy and related methods for the characterization of thin films and coatings

Dr. Rolf Erni Empa, Dübendorf, CH

Coffee Break

Nanoscale characterization of surfaces and materials properties by Scanning Force Microscopies

Prof. Dr. Hans-Josef Hug Empa, Dübendorf, CH

Micromechanics of thin films

Dr. Thomas Chudoba ASMEC GmbH, Radeberg, D

Lunch Break

Visit of the Empa Laboratories

End of day 2

s subject to change!

for Wednesday, June 29, 2016!

Bus shuttle to the ETH Zürich

Social Evening at the ETH Zürich 18:30 - 22:00