

### Submission of Papers

Contributed papers for oral or poster presentations are invited for the previously mentioned conference topics. Abstracts should be submitted with a minimum length of 300 words and a maximum length of one page. The abstracts have to be submitted via internet. Please find more information at [www.pse2008.net](http://www.pse2008.net).

The abstracts should be submitted not later than January 31, 2008. The authors are requested to indicate their preferred type of presentation (oral: 15 min plus 5 min of discussion, or poster), the corresponding conference topic as well as 3 potential referees their paper.

### Conference Proceedings

The proceedings of the conference will be published free of charge online via WILEY-Interscience, on CD for every regular full conference participant and as a printed version when ordered separately. All manuscripts will be refereed as customary for original papers. Regular conference contributions will be limited to 4, keynote lectures to 6, and plenary lectures to 10 journal pages. Please find more information on the conference website.

### Conference Language

All abstracts and manuscripts must be submitted in English. The invited and contributed talks, as well as the poster presentations, will be given in English, which is the official conference language.

### Venue

The location of the 11<sup>th</sup> International Conference on Plasma Surface Engineering – PSE 2008 is again the congress center of Garmisch-Partenkirchen. Situated 60 miles (95 km) south of München, Garmisch-Partenkirchen is a well-known resort in the foothills of the Bavarian Alps, nestling in an enchanting landscape of mountains, lakes, villages, baroque churches, and famous castles of the Bavarian kings. It is easy to reach by train from München Main Station and München International Airport. Access by car via Autobahn A95 from München to Garmisch-Partenkirchen is also straightforward.

### Social Program

Conference participants and accompanying persons are invited to join the welcome party on the evening of Sunday, September 14, 2008 and the Industrial Evening on Tuesday, September 16, 2008. Following the tradition of the previous PSE conferences, the conference dinner will be held as a “Bavarian Evening” on Wednesday, September 17, 2008.

### Accommodation

As Garmisch-Partenkirchen and Upper Bavaria are very popular in fall an early hotel reservation is strongly recommended. Please make your reservation with your registration.

### Information and Registration

Detailed information is available on the conference website. If you wish to receive the PSE 2008 newsletter, please register for it on the conference website. Registration is only possible via the conference website, after March 1, 2008.

### Important Dates for the Conference

Abstract submission deadline (only via internet, <a href="http://www.pse2008.net">www.pse2008.net</a> )	January 31, 2008
Confirmation of accepted abstracts	April 2008
Preliminary program available on the conference website	June 1, 2008
Registration opens from	March 1, 2008
Early Registration up to (only via internet, <a href="http://www.pse2008.net">www.pse2008.net</a> )	July 1, 2008
Manuscript submission deadline (only via internet, <a href="http://www.pse2008.net">www.pse2008.net</a> )	September 17, 2008

### Conference Schedule and Calendar

The technical program of the conference, including the plenary lectures, oral and poster sessions will be arranged from Monday to Friday. The official opening takes place on Monday, September 15, 2008 at 9 a.m.

### Local Organizing Committee

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B. Rauschenbach, Leipzig (D)	F. Richter, Chemnitz (D)
B. Schultrich, Dresden (D)	

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### European Joint Committee on Plasma and Ion Surface Engineering (EJC/PISE)

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### Conference Chairman

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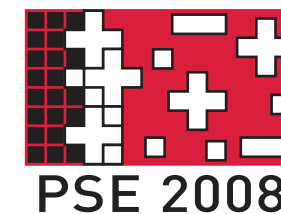
### Honorary Founding Chairman

K.-T. Rie, Braunschweig (D)

# Eleventh International Conference on Plasma Surface Engineering

## Conference and Exhibition

## First Circular and Call for Papers



**September 15–19, 2008**  
**Garmisch-Partenkirchen**  
**(Germany)**

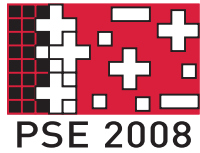
[www.pse2008.net](http://www.pse2008.net)

*Organized by:*  
European  
Joint Committee on  
Plasma and Ion  
Surface Engineering  
(EJC/PISE)

*Main Sponsor:*

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# Eleventh International Conference on Plasma Surface Engineering

PSE 2008

## Scope of the PSE Conference:

### Applications of plasma and ion beam techniques in surface engineering and their fundamentals

The Eleventh International Conference on Plasma Surface Engineering will be held in Garmisch-Partenkirchen, Germany, from Monday, September 15 to Friday, September 19, 2008. The conference is organized by the European Joint Committee on Plasma and Ion Surface Engineering. In view of the ever-growing interest in the preceding PSE conferences with more than 600 participants from Europe and overseas, this biennial conference is a well-established and important forum in the field of plasma and ion-/particle-beam-assisted surface and thin film technology. It is the aim of the PSE conferences to provide an opportunity for the presentation of recent progress in research, development and applications of plasma and ion-/particle-beam surface modification and engineering, and of plasma and ion-/particle-beam-assisted deposition of coatings and thin films. The presentations will help clarify the relationships between the process parameters, the structural properties and the functional properties of the modified surface coatings and the thin films, so as to bridge the gap between those involved in basic research and those who have to meet the rapidly increasing demands of industrial applications.

## Conference Topics

### 1. Plasmas for surface engineering

#### Advanced plasma and ion sources and technologies

- Pulsed plasmas
- Atmospheric plasma sources
- New ion and plasma sources
- HIPIMS
- Ion implantation/Plasma immersion ion implantation
- Industrial device technology

#### Properties of technological plasmas

- Plasma diagnostics/process control
- Plasma modelling

#### Plasma treatment and cleaning

- Plasma-surface interaction
- Plasma treatment of polymers

- Plasma sterilization
- Ion and laser treatment
- Surface cleaning/plasma etching

### 2. Deposition technologies

#### PVD

- Magnetron sputtering
- Plasma-activated evaporation
- Vacuum arc deposition

#### PECVD

- Low pressure plasma CVD
- Atmospheric pressure plasma CVD
- Plasma polymerization

#### Plasma diffusion

- Plasma nitriding/carburizing
- Hybrid and duplex processes

#### Coating of special geometries

- Large area deposition
- Coating of inner walls and complex geometries (trenches, holes, ...)

### 3. Films and coatings

#### Nano films

- Ultrathin films
- Nanocomposite films
- Multilayer films
- Nanostructuring and nanoparticles

#### Protective and tribological coatings

- Tribological coatings
- Corrosion-resistant coatings
- Carbon-based films
- Barrier coatings

#### Functional coatings

- Optical coatings
- Films for photovoltaics
- Films with special magnetic functions
- Conductive and photocatalytic oxides
- Films with special electrical functions
- Films for biomedical applications

### 4. Properties and characterization of films and modified surfaces

- Structure and composition
- Mechanical properties
- Optical properties
- Geometrical characterization (thickness, roughness)
- Internal stresses
- Electrical and magnetic properties

**Contributed papers** from universities, institutes and especially from industry are welcome. Recent developments and progress in the above listed areas will be reviewed at **invited talks**. In addition, the individual sessions will be introduced by a number of **keynote speakers**.

## Sunday, September 14, 2008

### 1. Tutorial: Fundamentals and Trends of Plasma Surface Processing

The tutorial will cover the fundamentals of selected modern plasma processes and their applications in research and industry. Lectures will be given by internationally recognized senior scientists.

The tutorial will be organized by the German PISE Group (AK Plasma) in cooperation with EFDS, chaired by Christian Oehr, Fraunhofer-Institut für Grenzflächen- und Bioverfahrenstechnik (IGB), Stuttgart (D).

### 2. Tutorial: European Patents on Plasma Surface Engineering

In this tutorial specialists of the Fraunhofer-Society will give an introduction to legal and technical aspects of European patents focusing on plasma surface engineering. The tutorial will be chaired by Günter Bräuer, Fraunhofer-Institut für Schicht- und Oberflächentechnik, Braunschweig (D).

## Tuesday, September 16, 2008 (afternoon)

### Workshop: Thin Films for Solar Technologies

Speakers from the industrial companies will discuss the current challenge to thin film solar technologies and the successful implementation of thin films in solar applications. The workshop will be organized by the German PISE Group (AK-Plasma), VDI Technology Center Physical Technologies in cooperation with the Society of Vacuum Coaters (SVC), chaired by Johannes Strümpfel, VON ARDENNE, Dresden (D).

## Tuesday/Wednesday, September 16 to 17, 2008

### Industrial Exhibition/Exhibition Evening

An Industrial Exhibition, where manufacturing and service companies will find excellent opportunities to present their products and announce their services, will again constitute an important part of the meeting. The exhibition area will be located in the main hall close to the conference desk. An Industrial Evening is planned on Tuesday. Interested companies and organizations should contact the conference management as soon as possible.

### Job Placement Center/Technology Placement Center

At PSE 2008 a "Job Placement Center" will be set up as a contact point for job seekers and organizations recruiting new personnel.

The "Technology Placement Center" will act as an intermediary for scientific/technological queries and will support cooperative ventures and proposals for problem-solving.

## Conference Fees

Regular registration fee	480 €
Registration/payment after July 1, 2008	510 €

The registration fee includes the delegate bag with all information about the conference, conference proceedings on CD ROM, exhibition, welcome party as well as the Industrial Evening. It does not include the Tutorials and the Bavarian Evening.

Regular registration fee for students	220 €
Registration/payment after July 1, 2008	250 €

The registration fee includes the delegate bag with all information about the conference, exhibition, welcome party as well as the Industrial Evening. It does not include the Tutorials and the Bavarian Evening.

Two-Day Ticket	290 €
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The two-day registration is only valid for two eligible conference days including the delegate bag with all information about the conference, exhibition and integrated welcome party as well as the Industrial Evening.

#### Tutorials:

Regular fee	200 €
Regular fee for students	100 €

This ticket is *only* valid for the particular Tutorial ordered.

Bavarian Evening	40 €*
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Participation at the Bavarian Evening is only possible with this additional ticket.

Accompanying persons	60 €
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Fee includes welcome party, Industrial Evening as well as Bavarian Evening.

Printed Conference Proceedings (plus shipping costs)	210 €*
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To be ordered separately.

*All stated conference and tutorial fees are free of VAT. Prices marked with \* include German VAT.*

*In case of your registration cancellation a cancellation fee of EUR 100 will be charged before June 10, 2008. After that date, a refund is not possible.*