







### Fraunhofer Seminar on Nano Coating Technologies

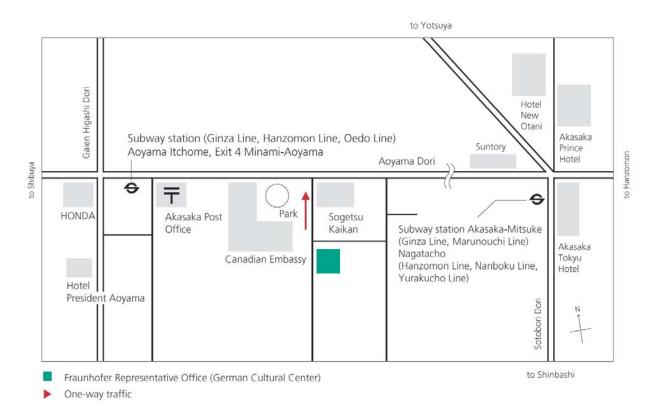
Feb. 22<sup>nd</sup>, 2010, 14:00-18:00 German Cultural Center 1F Hall (Akasaka, Tokyo)

With the aim of saving energy, reduction of environmental burdens and also costs, the coating technologies have been attracting global attention.

Coatings can modify surfaces to become resistant to heat, harsh environments, abrasion and corrosion and have better surface mechanical properties. Furthermore, the advanced coatings are considered as a key technology to exploit the full potential of novel nano materials.

Several Fraunhofer Institutes have been researching advanced nanoscale coating technologies and four of them will introduce their latest research results and development trends from Germany.

#### <a>Access German Cultural Center (Fraunhofer Representative Office Japan) ></a>



8 minutes walk from Aoyama-itchome Station (Ginza / Hanzo-mon / Oedo Line), Exit 4 North to German Cultural Center. Walk towards the Akasaka Post Office and pass the Canadian Embassy. Turn right in the first side road after the Canadian Embassy and walk approx. 50 meters more.









## Fraunhofer Seminar on Nano Coating Technologies

Feb. 22<sup>nd</sup>, 2010, 14:00-18:00 German Cultural Center 1F Hall (Akasaka, Tokyo)

Programm> Entry free, with simultaneous translation (English-Japanese)			
14.00	Welcome		
14.00-14.10	Opening Remarks		
	Dr. Evelyn OBELE (German Embassy)		
14.10-14.30	Introduction Fraunhofer-Gesellschaft		
	Dr. Lorenz GRANRATH (Fraunhofer Representative Office)		
14.30-15.10	Advanced Plasma Based Tools and Technology for Nano-scale Functional Coatings		
	Dr. Daniel GLÖSS (Fraunhofer Institute for Electron and Plasma Technology FEP)		
15.10-15.50	Advanced Carbon Nanotube Based Coatings for Energy Efficient Heating Applications		
	Mr. Ivica KOLARIC (Fraunhofer Institute for Manufacturing Engineering and Automation IPA)		
15.50-16.20	Break		
16.20-17.00	In-line Monitoring of Thin Film Metallization Processes		
	Dr. Henning HEUER (Fraunhofer Institute for Non-Destructive Testing IZFP, Dresden Branch)		
17.00-17.40	Ultra Precise Processing and Coating Technologies for Optical Systems in the Short		
	Wave Length Range		
	Dr. Andreas LESON (Fraunhofer Institute for Material and Beam Technology IWS)		
17.40-17.55	Discussion		
17.55-18.00	5-18.00 Closing Remarks		
	Dr. Koichi SUZUKI (Fraunhofer Institute for Electron and Plasma Technology FEP)		
18.00-20.00	Reception (Participation Fee: 5,000 Yen)		









#### About Fraunhofer-Gesellschaft and Fraunhofer Institutes

Fraunhofer-Gesellschaft (FhG) is Europe's biggest organization of applied research with 17,000 staff at more than 80 research units, including 59 Fraunhofer Institutes in Germany. We undertake applied research of direct utility to private and public enterprise and of wide benefit to society. Fraunhofer Representative Office Japan is the official representation of Fraunhofer-Gesellschaft in Japan and bridges between Fraunhofer researchers and Japanese customers.

Fraunhofer Institute for Electron Beam and Plasma Technology FEP (Dresden) develops, tests and optimizes technologies mainly in the field of thin film and electro beam technologies for industrial applications.

Fraunhofer Institute for Manufacturing **Engineering and Automation IPA** (Stuttgart) is one of the largest institutes focusing on research and development in industrial automation and rationalization. The department **Process** Engineering Functional Materials of Fraunhofer IPA operates in the segment of process engineering of new materials and designs production-related solutions for material innovation.

Fraunhofer Institute for Non-Destructive **Testing IZFP** (Saalbrücken) is engaged in research and development covering the physical principles non-destructive of testing, material

Itzehoe Rostock Lübeck Bremerhaven Bremen Berlin Hannovei Potsdam Braunschweig Teltow Magdeburg Oberhausen Halle Cottbus Dortmund Schkopau Leipzig] Schmallenberg Duisburg Aachen Sankt Augustin Euskirchen Wachtberg Ilmenau Chemnitz Darmstadt Würzburg Kaiserslautern Wertheim Erlangen St. Ingbert Nürnberg Saarbrücken Karlsruhe Pfinztal uttgart Ettlingen Freising Freiburg München Holzkirchen Efringen-Kirchen Institutes Branches of Institutes, Research Institutions, Working

Groups, Branch Labs and Application Centers

characterization, control and monitoring of production processes and industrial plants and components. The business unit "Electronics and Nano-technologies" in Fraunhofer IZFP Dresden branch is involved in development and application of measurement and inspection techniques for electronics, micro-system engineering and nanotechnology.

Fraunhofer Institute for Material and Beam Technology IWS (Dresden) offers application-oriented research and development in the area of laser and surface technology. Their technical focal points are laser beam joining, cutting, hardening and ablation processes, surface treatment and thin film coatings.



# Fraunhofer Seminar on Nano Coating Technologies Registration Form

R.S.V.P. by **Feb. 10<sup>th</sup>, 2010 (Wed.)** to

Fax: 03 3586 7187 or E-Mail: event@fraunhofer.jp

☐ I need no further information on events and news from Fraunhofer-Gesellschaft.

I will attend "Fraunhofer Seminar on Nano Coating Technologies" on Feb. 22<sup>nd</sup>, 2010, 14:00-18:00 (German Cultural Center 1F Hall)

Company:		
Department:		
Job Title:		
Name: Dr./Mr./Ms.		
Phone:	Fax:	
E-Mail:		
	·	end the reception: tion Fee 5,000 Yen will be collected at
		n events and news by Fraunhofer-Gesellschaft and al information will be kept under our strict control