1st VACOM® Conference



Optics Needs Vacuum - Metrology in XHV



VACOM Production & Technology Center

Jena-Großlöbichau Germany

www.vacom.de

1st VACOM[®] Conference

Optics Needs Vacuum - Metrology in XHV

Dear colleagues,

we cordially invite you to attend the 1st VACOM Conference "Optics Needs Vacuum - Metrology in XHV" held on 15 June 2012 at VACOM's Production & Technology Center in Jena-Großlöbichau (Germany).

Pushing physics towards smaller and smarter structures requires a strong connection between optics and vacuum technology. Even though it seems that both industries have not much in common, the demands of optical processes especially in EUV encourage further innovations in vacuum technology and metrology.

At the 1st VACOM Conference experienced scientists from both European industry and research centers will present their demands and prospects in developing the innovative overlap of optics and vacuum, accompanied by recent advancements in the highly evolving, interdisciplinary field.

During the conference we will discuss cleanliness requirements, contamination risks and metrology techniques with respect to their current status and restrictions, and with joint focus on approaches to overcome existent limitations. Hence it will be a great opportunity to exchange ideas, meet with peers and have a great time.

The conference is part of VACOM's 20th anniversary celebration. Our attractive social program includes a "Thuringian Evening", i.e. an informal get-together with traditional cuisine, on 15 June 2012 and a fantastic show at the Planetarium Jena where optics enables a view into a vacuum that is unequaled on earth on 16 June 2012, 10:00 am.

We sincerely hope that you will join us. We look forward to welcoming you at the 1st VACOM Conference.

Jens Bergner & Dr. Ute Bergner Presidents of VACOM

Program 15 June 2012

09:15 - 09:45	Check-in and badge pick-up
09:45 - 10:00	Welcome and opening by VACOM's President Dr. Ute Bergner
Session 1	Vacuum Metrology Chair: Prof. Dr. Harald Bergner
10:00 - 10:45	Dr. Karl Jousten, Physikalisch-Technische Bundesanstalt (PTB), Berlin Towards standardization of calibration of partial pressure measurement devices
10:45 - 11:15	Nikolas von Freyhold <i>VACOM Vakuum Komponenten & Messtechnik GmbH, Jena</i> X-ray compensation in Bayard-Alpert gauges for measurements in XHV
11:15 - 11:45	Dr. Jaroslaw Iwicki VACOM Vakuum Komponenten & Messtechnik GmbH, Jena Maintaining cold cathode discharges in the XHV range
11:45 - 13:00	Lunch
Session 2	Vacuum & Optics Chair: Dr. Michael Flämmich
13:00 - 13:45	Prof. Dr. Norbert Kaiser Fraunhofer Institut f. Angewandte Optiku. Feinmechanik (IOF), Jena Mo/Si multilayers for EUV lithography
13:45 - 14:15	Dr. Thomas Rietmann VACOM Vakuum Komponenten & Messtechnik GmbH, Jena Vacuum suitable optics - merging optical components & UHV
14:15 - 14:30	Coffee Break
Session 3	Ultra Clean Vacuum Chair: Dr. Michael Flämmich
14:30 - 15:15	Dr. Michael Wahl Institut für Oberflächen- u. Schichtanalytik (IFOS), Kaiserslautern Vacuum based surface analytics for leading-edge technology
15:15 - 15:45	Dr. Oliver Posth VACOM Vakuum Komponenten & Messtechnik GmbH, Jena Cleaning and quality control of assemblies for ultra-high and ultra-clean vacuum
15:45 - 16:30	Ton van de Kerkhof ASML, Veldhoven (NL) Contamination risk and contamination control strategy
17:30	"Thuringian Evening" at VACOM Jena-Großlöbichau

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Conference Location

VACOM Production & Technology Center
In den Brückenäckern 3 ■ 07751 Großlöbichau (50° 56' N, 11° 41' O)



Important Information

Please note that the participation in the conference will be limited.

Registration opens 16 March 2012

Conference fees by 16 May 2012 300 € after 16 May 2012 400 €

Conference Web Site

Please have a look at www.vacom.de/conference for registration, accomodation and further details.

Contact

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