SAXONY!

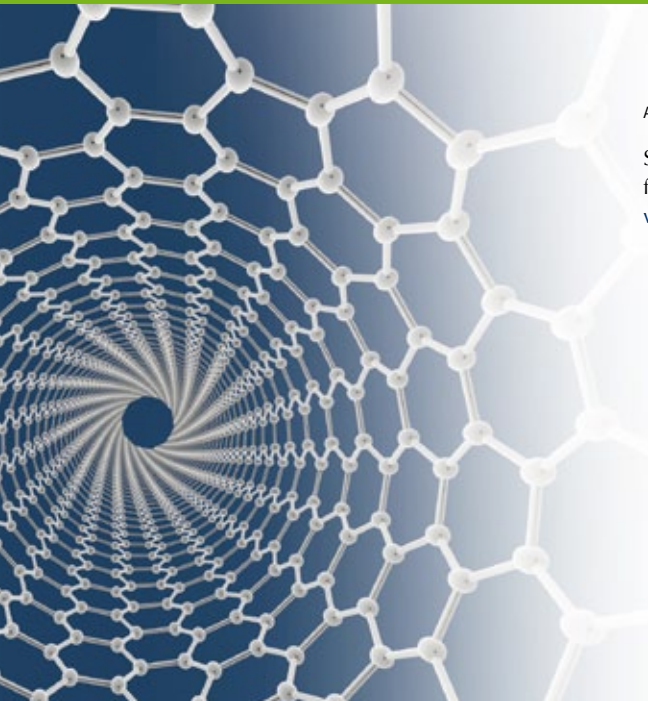
made
in
Germany

COMPANIES FROM SAXONY – A HIGH TECH LOCATION IN GERMANY

NANO TECH TOKYO
JANUARY 27 – 29, 2016
EAST HALL 5, BOOTH 5M-13

GET MORE
INFORMATION

SUPPORTED BY



STAATSMINISTERIUM
FÜR WIRTSCHAFT
ARBEIT UND VERKEHR

Freistaat
SACHSEN

Saxon State Ministry
for Economic Affairs, Labour and Transport
www.smwa.saxony.de

WIRTSCHAFTSFÖRDERUNG
SACHSEN
The Saxony Economic Development Corporation

www.wfs.saxony.de

European Union
European regional
development fund

Europe funds Saxony!

NANOTECHNOLOGY IN SAXONY

With 200 companies specialized in nanotechnology Saxony belongs to Germany's top 5 locations. Saxony is characterized by a tight network of producing industries and suppliers that give impetus to the development and economic use of nanotechnologies and open up new channels. Thus, nanotechnology experts benefit from close exchange with the microelectronics / ICT (»Silicon Saxony«), mechanical engineering and automobile industries, which are particularly strong in Saxony. When it comes to nanoanalysis, nanoelectronics, functional nano-layers, ultra-thin layers and materials in particular, Saxony's companies and research institutes are at the top of the European field.

Contact:
Saxony Economic Development Corporation
www.invest-in-saxony.com

Saxony's nanotech companies and research institutions have largely organized themselves in various active networks. An excellent example is the the »Dresden Fraunhofer Cluster Nanoanalysis« that unites nine Fraunhofer Institutes and three faculties of the Dresden University of Technology.

That's why it's no coincidence that Saxony's capital Dresden is host to the »Nanofair« convention - the most established conference on nanotechnology in Europe and among the premier events worldwide.

Contronix GmbH

Nizzastr. 6, 01445 Radebeul, Germany

Contact Mr. Christoph Gommel
Phone +49 351 4829 212
E-Mail gommel@contronix.de
Internet www.contronix.de

BOOTH 5M-12

CONTRONIX
DER BLICK FÜRS GANZE

Contronix develops the electronics inside of innovative products.

- From your idea to working prototypes of circuit boards, including embedded software
- Seven highly skilled experts cover all aspects of electronics and software
- Usage of powerful 3D M-CAD and E-CAD for perfect integration into existing mechanics
- Intensive collaboration with other engineering companies (e.g. for EMC measurement or thermal simulation)
- In-house production of samples and prototypes, networked to several EMS companies for middle or high volume production
- More than 5 years of experience with the integration of organic and printed electronics (OLED, OPV) into products
- Experience with wireless communication, security/cryptography, high-power electronics, ASIC design, C/C++/C# software and firmware development
- Web based project management and collaboration tool accessible for all customers

CreaPhys GmbH

Niedersedlitzer Str. 75, 01257 Dresden, Germany

Contact Mr. Jens Drechsel
Phone +49 351 4079 1620 / Fax +49 351 4079 1622
E-Mail drechsel@creaphys.com
Internet www.creaphys.com

BOOTH 5Q-12

CREAPHYS

CreaPhys provides solutions for the organic electronics research and industry to its customers worldwide. We offer molecular compounds at opto-electronic grade (> 99.99%) as well as a purification service of molecular compounds at R&D or production scale. Our proprietary concept allows for the cost-efficient purification of large volumes at high throughputs (up to kg) while maintaining high quality standards.

We offer customized solutions for thin film deposition for R&D and for production. Our portfolio ranges from single components, like deposition sources for molecular compounds (linear sources) and metals to entire vacuum deposition systems. Our well-established solutions can be combined in a customized setup to meet the individual needs of scientific research.

DTF Technology GmbH

Am Promigberg 16, 01108 Dresden / OT Weixdorf, Germany

Contact Prof. Dr. Thoralf Gebel
Phone +49 351 320 29 200 / Fax +49 351 320 29 210
E-Mail gebel@dtf-technology.de
Internet www.dtf-technology.de

BOOTH 5Q-14

DTF Technology GmbH – Dresden Thin Film Technology

DTF Technology GmbH develops processes and equipment for thin film deposition and vacuum technologies. The company portfolio includes:

- Tools for CVD and PVD (sputtering, evaporation, PECVD) and atomic layer deposition (ALD)
- Ultra-short time annealing techniques, like Flash Lamp Annealing (FLA) for the thermal treatment / modification of surfaces on temperature sensitive substrates (glas, PET foil, plastic materials)
- Plasma Immersion Ion Implantation (PIII) systems for advanced deposition of materials (e.g. for improved adhesion of protective coatings) and for doping processes (e.g. for microelectronics and for photovoltaics)
- Vacuum handling systems for R&D and industrial environments, e.g. cluster tools, in-line systems or roll coaters

Fraunhofer Institute for Electronic Nano Systems ENAS

Technologie-Campus 3, 09126 Chemnitz, Germany

Contact Prof. Dr. Thomas Gessner
Phone +49 371 45001 100 / Fax +49 371 45001 101
E-Mail thomas.gessner@enas.fraunhofer.de
Internet www.enas.fraunhofer.de

BOOTH 5J-14

Smart Systems Integration by using Micro and Nano Technologies

Fraunhofer ENAS is your partner for applied research in micro and nano systems technology.

- Development, design and test of MEMS and NEMS
- Wafer level packaging and low-temperature wafer bonding
- 3D integration as well as metallization and interconnect systems for micro and nano electronics
- Adaptive printing technologies incl. material development and characterization
- Reliability and security of micro and nano systems.

Fraunhofer ENAS cooperates closely with the Fraunhofer Project Center “NEMS/MEMS Devices and Manufacturing Technologies at Tohoku University” and the WPI-AIMR at the Tohoku University in Sendai, Japan.
Fraunhofer ENAS belongs to the Fraunhofer-Gesellschaft - the leading organization for applied research in Europe.

Fraunhofer Institute for Ceramic Technologies and Systems IKTS

Winterbergstrasse 28, 01277 Dresden, Germany

Contact Mrs. Fanny Pohontsch
Phone +49 351 2553 7331 / Fax +49 351 2554 340
E-Mail fanny.pohontsch@ikts.fraunhofer.de
Internet www.ikts.fraunhofer.de

Fraunhofer IKTS

BOOTH 5K-12

The Fraunhofer IKTS conducts applied research on high-performance ceramics. The institute's three sites in Dresden and Hermsdorf (Thuringia) collectively represent Europe's largest R&D institute dedicated to the study of ceramics.

As R&D service provider, the Fraunhofer IKTS develops modern ceramic high-performance materials, customized industrial manufacturing processes and creates prototype components and systems in complete production lines from laboratory scale to pilot plant scale. Furthermore, the institute has expertise in diagnostics and testing of materials and processes. Test procedures in the fields of acoustics, electro-magnetics, optics, microscopy and laser technology contribute substantially to the quality assurance of products and plants.

Fraunhofer Institute for Material and Beam Technology IWS

Winterbergstrasse 28, 01277 Dresden, Germany

Contact Mrs. Birgit Schaub
Phone +49 351 83391 3323 / Fax +49 351 83391 3314
E-Mail birgit.schaub@iws.fraunhofer.de
Internet www.iws.fraunhofer.de

Fraunhofer IWS

BOOTH 5J-13

The Fraunhofer IWS portfolio includes two overlapping working areas: the laser and the surface technology. The R&D work is based on a solid materials science background and extensive technical capabilities for materials and component characterization.

Materials are a central key element of today's manufacturing technology. On the other hand, the field of nanotechnology is increasingly gaining importance in both materials development and manufacturing. The Fraunhofer IWS offer one-stop-solutions usually derived from novel concepts, which are based on the holistic analysis of manufacturing systems, processes, materials and component performance. The IWS continuously expands its facilities, which guarantees an efficient project execution utilizing state-of-the-art and high-tech equipment.

Leibniz Institute of Polymer Research Dresden (IPF)

Hohe Straße 6, 01069 Dresden, Germany

Contact Prof. Dr. Brigitte Voit
Phone +49 351 4658 590
E-Mail ipf@ipfdd.de
Internet www.ipfdd.de

Leibniz-Institut für Polymerforschung Dresden.e. V.

BOOTH 5Q-13

The IPF is one of the largest polymer research facilities in Germany and active in the field of application-oriented fundamental research. In an approach covering synthesis and modification of polymer materials, their characterization and theoretical investigation, as well as processing and testing, scientists and engineers develop fundamentals for novel polymer materials for, e. g., medicine, transport and mobility, advanced communication technologies, energy efficiency, and light-weight construction. Special focus is given to interface-related properties and interactions at interfaces/surfaces. Nanotechnology is used as a key tool for materials innovations (nanostructuring of materials and surfaces, nanofillers).

Loser Chemie GmbH

Kopernikusstraße 38-42, 08056 Zwickau, Germany

Contact Dr. Wolfram Palitzsch
Phone +49 375 274 760 / Fax: +49 375 274 7619
E-Mail contact@loserchemie.de
Internet www.loserchemie.de

LOSER Chemie

BOOTH 5J-12

The need to address end-of-life issues early in the design stage of product development is also clearly illustrated by the history of the electronics industry. We cannot afford to wait for the inevitable tidal wave of WEEE waste (including photovoltaic scrap) before we begin to address this problem and we have to handle enough scrap for now. Without economic and ecologic valuable recycling programs, defective and decommissioned (also EOL) solar PV equipment and other high tech products will enter the waste stream. It will end up in landfills (where toxic compounds can leach into groundwater) or incinerators (where burning can release toxic compounds into the air). **Learn more about our new and innovative technologies for the recycling of nano silver and thin film layers from semiconductor materials.**

OES Organic Electronics Saxony Management GmbH

Würzburger Str. 51, 01187 Dresden, Germany

Contact Dr. Dominik Gronarz
Phone +49 351 46677 180 / Fax +49 351 46677 188
E-Mail info@oes-net.de
Internet www.oes-net.de

BOOTH 5Q-11

Organic Electronics Saxony (OES) is Europe's leading Cluster for Organic, Printed and Flexible Electronics.

Global leading companies, hidden champions, promising start-ups as well as specialized Research Technology Centers are combined in the competence network and cover the whole value chain:

- fundamental and applied research
- material tool suppliers
- device and product development

SIOD

Technologie Campus 1, 09126 Chemnitz, Germany

Contact Mr. Marcin Ratajczak
Phone +49 157 7015 172
E-Mail ratajczak@siod.tv
Internet www.siod.tv

BOOTH 5P-12

SIOD brings paper to life by integrating simple photonic devices. They allow paper to light up, show simple animations and will provide additional digital content on paper in future.

Beeing ultra-thin and flexible they can be integrated into any given paper based products like printed advertisement in magazines, packaging, greetings cards and many more. These animations are catching the eye and staying in the mind of customers, increasing the effectiveness of advertisement and improving the visibility at the point of sale.

SIOD uses only sustainable materials for its products. This makes them fully dispose- and recyclable. Plus our devices very energy efficient. They can be driven by printed eco friendly organic batteries as well as the energy of the sun.

VON ARDENNE GmbH

Plattleite 19/29, 01324 Dresden, Germany

Contact Mr. Martin Fischer, Business Development Manager
Phone +49 351 2637 9747 / Fax +49 351 2637 308
E-Mail fischer.martin@vonardenne.biz
Internet www.vonardenne.biz

VON ARDENNE

BOOTH 5Q-15

VON ARDENNE develops and manufactures equipment for the deposition of functional coatings on materials such as glass, flexible glass, silicon wafers, metal strip and polymer films. The coated materials are the basis for products such as architectural glass, solar modules or smartphone displays.

VON ARDENNE is the market leader in manufacturing architectural glass coating equipment and a leading provider of coating systems for photovoltaics.

Furthermore, VON ARDENNE is very active in the development of emerging technologies. We have developed a novel flash lamp annealing technology for large-area substrates. We also offer equipment solutions for coatings on flexible glass.

As a global corporation with subsidiaries in China, Japan, Malaysia, Taiwan and the USA, VON ARDENNE relies on customer proximity in order to offer ideal on-site service.

WOLFRAM Design/Engineering

Herweghstraße 18, 01157 Dresden, Germany

Contact Mr. Sebastian Wolfram
Phone +49 351 2476 0743 / Fax +49 351 6586 3966
E-Mail wolfram@wolframdesign.de
Internet www.wolframdesign.de

WOLFRAM DESIGN / ENGINEERING

BOOTH 5N-12

WOLFRAM Design/Engineering is a full service design and engineering agency from Germany. We provide services with regard to the entire product development process – from the initial idea to a product ready for mass production. Working together with our customers, WOLFRAM Design/Engineering assesses the potential and unique selling proposition and defines the innovation strategy.

Our team of experienced engineers and designers, covering all stages from innovation research, industrial design, and CAD mechanical engineering. WOLFRAM Design/Engineering offers the opportunity to experience innovative, future lighting through a series of luxury OLED luminaires. We create innovative light sculptures using state-of-the-art OLED technology and precious materials which have never been seen before in light design.

Saxony Economic Development Corporation

Bertolt-Brecht-Allee 22, 01309 Dresden, Germany

Contact Mrs. Karin Heidenreich
Phone +49 351 2138 235 / Fax +49 351 2138 219
E-Mail karin.heidenreich@wfs.saxony.de
Internet www.invest-in-saxony.com

Contact in Tokyo

Saxony Economic Development Corporation
Holland Hills Mori Tower (c/o Mitsubishi UFJ Research & Consulting)
5-11-2 Toranomon, Minato-ku, Tokyo 105-8501, JAPAN
Contact Mr. Kurando OGI, Representative
Phone +81 3 6733 3899 / Fax +81 3 6733 1049
E-Mail sachsen@murc.jp / Internet www.invest-in-saxony.com

WIRTSCHAFTSFÖRDERUNG SACHSEN
The Saxony Economic Development Corporation

BOOTH 5M-13

The Saxony Economic Development Corporation promotes Saxony as a business location and advises potential investors on relocation projects. Furthermore, the WFS supports Saxony´s companies in their export efforts and initiates cooperation with partners outside Saxony.

Our services include:

- the latest data on Saxony's economy and business environment,
- customized business site location services,
- procurement of contacts with regional decision makers,
- information on opportunities for financial support and subsidy programs,
- access to branch networks in Saxony,
- assistance in opening up new markets, and
- in initiating cooperative partnerships.

»Invest in Saxony« – Saxony's Information Portal for Investors

According to the latest survey conducted by the UK-based consulting firm »GDP Global,« the Saxon investors' portal »Invest in Saxony« is one of the world's best websites for investors. In the recent assessment of investment service agencies, the Saxony Economic Development Corporation (WFS) received top ratings for its communication in the www.

www.invest-in-saxony.com

FURTHER COMPANIES

Fraunhofer Project Center for NEMS/MEMS Devices and Manufacturing Technologies at Tohoku University

Hall 5, Booth 5J-14
Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai, 980-8577 Japan
www.enas.fraunhofer.de

Heliatek GmbH

Hall 3, Booth 3G-25
Treidlerstraße 3, 01139 Dresden, Germany
www.heliatek.com

WPI-AIMR (Advanced Institute for Materials Research) Gessner Group, Tohoku University

Hall 5, Booth 5J-14
Tohoku University, 2-1-1 Katahira, Aoba-ku, Sendai, 980-8577 Japan
www.enas.fraunhofer.de

City of Dresden – Department of Economic Affairs
Ammonstraße 74, World Trade Center Dresden,
01067 Dresden, Germany
www.dresden.de

FEW Fahrzeugelektrikwerk GmbH & Co.KG
Polierweg 6, 04442 Zwenkau, Germany
www.few-gmbh.de

FHR Anlagenbau GmbH
Am Hügel 2, 01458 Ottendorf-Okrilla, Germany
www.fhr.de

Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technologie FEP
Winterbergstrasse 28, 01277 Dresden, Germany
www.fep.fraunhofer.de

Pentacon GmbH
Enderstraße 92, 01277 Dresden, Germany
www.pentacon.de

SAXONY!

EXPERT LECTURES

AT THE "SAXONY!" JOINT COMPANY BOOTH 5M-13

Entrepreneurs and researchers present the latest innovations in production technology, materials and applications relating to nanotechnology and flexible electronics.

JANUARY 27 – 29, 2016
FROM 10.30 AM EVERY DAY

← The full program is available here