Photonics West 2008 – The "can't-miss exhibition"

SPIE Photonics West

San José, CA, USA – With more exhibitors than ever, Photonics West 2008 (January 19–24) is projected to be the largest show in its thirteen year long history. It brings together more than 1,000 companies from around the globe who present their latest innovations. With 3,100 technical papers, 80 technical courses and professional development workshops, and over 17,000 attendees from 50 countries, this show is a "can't-miss exhibition". Leading international experts will provide insights via numerous plenary and hot-topics sessions and an industry perspectives panel including a new concentration on communications.

Photonics West is the most important North American exhibition on biomedical optics, nanotechnologies, MEMS/MOEMS, lasers, and optoelectronics. Traditionally held in San José, California, the Photonics West is located at the center of one of the world's hottest technology markets, the Silicon Valley. Trade shows are a mirror of the economic situation of an industrial sector, and - judging by the Photonics West - the worldwide optics and photonics industry is stronger than ever.

Exhibition Spotlight: Cluster Groups and Pavilions

Cluster Groups and Pavilions are becoming more and more important and contribute significantly to the exhibitions success. The advantages for both, the pavilion exhibitors and visitors, are obvious: the exhibitors benefit from a great visibility as well as organizational and promotional support from the pavilion organizer, and the visitors can meet a lot of companies from a particular country or region by visiting only one booth. In 2008, Photonics West is expecting 13 Cluster Groups and Pavilions from the US, Canada, China, France, UK, Scotland, Holland, Switzerland and Germany with altogether 157 exhibitors.

"Optical Technologies made in Germany" – the German Pavilion

For the fifth year in a row, the German joint exhibition stand (Convention Center, booth 1801) is an inherent part of the world's largest optics and photonics exhibition. With the largest amount of exhibitors ever – impressive 44 companies and research institutes – the "German Pavilion" provides a profound insight into the innovative strength and diversity of this leading technology in Germany. Covering 2500 sq. ft., the "German Pavilion" once again is the biggest booth of the exhibition and has become a main attraction.

Initiated by OptecNet Deutschland, the Association of the German Competence Networks, and SPECTARIS, the German Industry Association for Optical, Medical and Mechatronical Technologies, and supported by the Federal Ministry of Economics and Technology, the "German Pavilion" presents leading edge technology "made in Germany". The success of this concept is reflected by the repeated participation of SME companies and institutes like eagleyard Photonics GmbH, Feldmann GmbH, Fraunhofer Institute for Silicate Research ISC, Fresnel Optics GmbH, m2k-Laser GmbH, and LZH Laser Zentrum Hannover, as well as in the first-time participation of worldwide renowned companies, such as Mahr GmbH, Leica Microsystems GmbH, and Vistec Semiconductor Systems GmbH.

As part of the successful concept, the "German Evening" on the second day of the show will provide the opportunity to network at the highest level with the biggest players in the global photonics industry, and of course enjoy German hospitality.

Cluster Groups and Pavilions	No. of exhibitors	Booth no.
German Pavilion	44	1801
New York Cluster	24	326-348, 6089-6094
Canada Pavilion	14	6098
French Pavilion	14	1410
Colorado Cluster	12	1706
China Pavilion	11	1938, 1939, 6617
Arizona Cluster	11	414-422, 6073-6079
Florida Cluster	8	639
Holland Pavilion	7	6278
Swiss Cluster	4	6172
Carolinas Cluster	4	6164, 6165
UK Pavilion	3	1640-1646
Scottish Pavilion	1	1818

Symposia Preview

The Exhibition Photonics West 2008 coincides with a comprehensive technical program featuring four international symposia: BiOS 2008 - Biomedical Optics, LASE 2008 - Lasers and Applications in Science and Engineering, OPTO 2008 - Integrated Optoelectronic Devices, and MOEMS-MEMS 2008 - Micro- and Nanofabrication. The highlights of these four symposia are too many to name all of them. With a total number of 85 conferences and 3,100 papers the Photonics West 2008 symposia cover almost each and every topic in optics and photonics.

Joint exhibition stand of the German Competence Networks for Optical Technologies at Photonics West 2007. In 2008, the booth number will be 1801.

BiOS 2008

BiOS is the world's largest and most prestigious international biomedical optics and imaging conference, encompassing clinical, translational, and fundamental R&D. BiOS is a major impetus for launching new applications and technologies; patent citations indicate the importance of the research introduced in these conferences. The BiOS symposia is again accompanied by the BiOS weekend exhibition (January 19-20) with 150 companies.

The BiOS 2008 will feature:

- Biomedical Spectroscopy, Microscopy, and Imaging
- Clinical Technologies and Systems
- Nano/Biophotonics
- Photonic Therapeutics and Diagnostics
- Tissue Optics, Laser-Tissue Engineering, and Tissue Engineering

LASE 2008

LASE 2008 conferences will address advances in basic laser device research and in laser materials, device and system engineering for various applications ranging from emerging nanotechnologies, microelectronic and photonic manufacturing, free-space communications, to use on the industrial manufacturing floor. One of the strengths of this symposium is its ability to bring together people engaged in the full spectrum of laser research and development, from basic research to product manufacturing to system devices and components. Furthermore, the conference is accompanied by panel discussions on "Laser processing and chemistry: applications in nanopatterning, material synthesis and biotechnology", "The long journey from idea to industrial success" and "Building coherence in collaboration: a case study with the world's most powerful tunable laser."

The main topics of this conference are:

- Laser Communication and Propagation
- Laser Micro-/Nanoengineering and Applications
- Laser Source Engineering
- Nonlinear Optics
- Semiconductor Lasers and LEDs

OPTO 2008

The OPTO 2008 symposium will address the latest developments and advances in a broad range of optoelectronic technologies and their integration for a variety of applications. As we approach the Tera Era, the demands for communications networks with bandwidths on the order of a Tb/s, computers with computational bandwidths in the Tflop/s range, instrumentation with measurement capabilities in the THz range, and storage media which can store Tbytes of data will be necessary. Optics and optoelectronic devices will play a major role in bringing about the Tera Era. Additional topics to be covered include optoelectronic materials and devices, semiconductor lasers and LEDs, photodetectors, hybrid and monolithic photonic and optoelectronic integrated circuits (PICs, OEICs), displays and holography, nanotechnologies in photonics, terahertz photonics, and photonics packaging (device modules for wireless communications).

Program tracks for 2008 are:

- Advanced Quantum and Optoelectronic Applications
- Displays and Holography
- Nanotechnologies in Photonics
- Optoelectronic Materials and Devices
- Photonic Integration
- Semiconductor Lasers and LEDs

MOEMS/MEMS 2008

The micro- and nanofabrication of MOEMS and MEMS is a growing industry. Micro- and nanofabricated electromechanical and optical components, created by batch processing, provide the missing links to the mass-produced miniaturized products and systems of the future. They are superior in cost, performance, and reliability. Each year one of the conferences at MOEMS/MEMS illuminates an emerging area of interest. This year's focus will be on Transducers at the Micro-Nano Interface.

Main topics for 2008 are:

- Devices, Applications, and Reliability
- Micro/Nanofabrication

For more information and updates on special events see www.spie.org.

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