

PRODUCT DEMONSTRATIONS AND SEMINARS

Location: RHIN Exhibition Hall
Free to all attendees

Exhibiting companies will be showcasing products in half-hour demonstrations.

TUESDAY 24 APRIL		WEDNESDAY 25 APRIL	
10:30	Nanoimprint Lithography for Manufacturing of Photonic Devices EV Group (EVG) Dr. Martin Eibelhuber	10:30	Large LBO Crystal Applications Cristal Laser Ophelie Wagner >100 mm dia. LBO crystal now available for high intensity and high power lasers.
11:30	IR-enhanced Distance Image Sensors Hamamatsu Photonics Laurent Demezt High near-infrared sensitivity: GE=85% (lambda=800 nm)- High near-infrared sensitivity: GE=65% (lambda=940 nm)- Improved tolerance to background light using Hamamatsu original circuit technology (five times improvement over previous products)	11:30	Miniature Fast Highly Sensitive Surface Plasmon Resonance Systems Photonicsys Prof. Ibrahim Abdulhalim Photonicsys was established based on several innovative plasmonic biosensing concepts which improve the detection limit, enhance the penetration depth so that small and large bioentities can be detected using the same system with visible light and make self referenced measurement of higher stability. A simple and highly accurate reading methodology was developed which makes the system compact that can be fit under a microscope or easily integrated with spectroscopic measurement instruments. In this presentation we shall review all these concepts and the related products.
12:30	Direct Glasses-free 3D LED Wall Display Holografika Kft. 3D Light Field LED Wall Tibor Balogh Introduction of the new glasses-free light field 3D LED wall technology developed in EU Optintegral and Live-Ray projects; Benefits, market and investment opportunities.	12:30	High Voltage for Miniature, Low Noise and Precision Applications XP Power Hafiz M. Khalid This presentation will go over our high voltage products for low noise, precision and size constrained applications.
14:00	Career Choices— My Journey in Optics Nature Photonics Rachel Won Having been exposed to the environment of journalism where she worked as a student reporter during school days, Rachel has always been excited about news communications. However, she faced a dilemma - science or journalism - when it came to the time to choose a major in furthering her study. With a stronger interest in physics and mathematics, science was, naturally, her choice. Fortunately, after completing her PhD study in the world of science, she had the opportunity to combine her background in photonics and her enthusiasm in news communications working as an editor for <i>Nature Photonics</i> .	13:30	Optical Characterization of thin films using Agilent Cary Universal Measurement System (UMS) Agilent Technologies Dr. Marcus Schulz In this presentation it will be shown how the Agilent Cary UMS can be used to characterize thin film coatings by measuring transmittance and absolute reflectance under oblique angle. Moreover the technical aspects of the UMS will be presented to show how the UMS can be modified to cover a wide range of sample types and applications (bandpass filter, Cube beam splitter, diffraction gratings).
15:00	Career Choices—Panel Discussion SPIE This panel discussion will help you explore potential career pathways in the world of photonics. Get solid advice on how you can translate your knowledge, abilities, and interests into meaningful work. Whether you end up in academia, industry, or start your own company, getting a clear picture of the options from experienced leaders will help you better manage your career trajectory.	15:00	INNOVATION AWARD CEREMONY SPIE
16.30	3D Microprinting of Optical Components Nanoscribe GmbH Dr. Jochen Zimmer We will present the possibilities of using Nanoscribe's 3D microprinting technology and highlight recent applications in the field of micro-optics. The technology allows for the straightforward printing of virtually any 3D object, with linewidths and line-distances down to 0.2 µm and 0.5 µm, respectively. At the same time, it allows for total sample sizes in the range of several millimeters. Thus, 2.5D prototypes and masters can be produced and iterated quickly, and complex 3D assemblies can be realized in a single process step.	15:30	Tunable and Swept Lasers for Industrial Test and Medical Imaging Santec Europe Andrea Geltrude Santec Lasers have demonstrate high level of reliability and peculiar performances in the past 20 years, across several fields of application. Tunable Lasers have been developed to streamline photonic testing, providing a complete solution where high-speed analysis, high resolution and accuracy are key. Combining one of Santec's tunable lasers (TSL-550) with a Santec optical power meter (MPM-200) and custom software, the complete Swept Test System optimizes WDL measurement for use in both R&D and production environments. Swept Lasers are the core of Santec OCT Technology. Developed in our Labs in collaboration with top Universities, Santec Swept sources are widely appreciated in the OCT world and have been integrated in medical devices (e.g. Biometers and Surgical systems) and industrial metrology systems (non invasive imaging). Combining our swept source together with Santec OCT instrumentation, the Santec IVS-2000 OCT Systems is able to perform fine measurements and provide clear surface and cross section images.