

- Adomission Free
- Simultaneous interpreting will be available (Japanese/English )
- Introduce the latest technologies and their actual applications.
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## 7/11 (Wed)

<b>10:30~11:20</b>	<p>High Power Q-Switched and Mode-Locked Lasers Applications &amp; Comparisons Hiroyuki Toyoda / SPECTRA-PHYSICS,K.K.</p> <p>[ABSTRACT] Recent Developments in industrial LD pumped solid state laser and their applicati</p>
<b>11:30~12:20</b>	<p>Wavelength Stabilization Technology in High Power Laser Diodes for pumping YAG, Vanadate and Erbium/Ytterbium lasers Ron K.Bechtold / ALFALIGHT</p> <p>[ABSTRACT]</p>
<b>12:30~13:20</b>	<p>Recent Advances in Single Emitter Laser Diodes at JDSU and Applications Michael Watts / JDS UNIPHASE CORPORATION</p> <p>[ABSTRACT] The latest information and the application for high power and high brightness single emitter laser diode.</p>
<b>13:30~14:20</b>	<p>Next Generation Ultrafast Ti:Sapphire <math>KH_2</math> Amplifiers Kazunori Wakita / COHERENT JAPAN,INC.</p> <p>[ABSTRACT] With conventional technology, satable operation of femto second oscillators and regenerative amplifiers has been difficult. But now, Coherent's new products with improved technology can provide better solution for this issue. At this seminar, we will introduce this new product with its new stablization technology along with the data proving its performances.</p>
<b>14:30~15:20</b>	<p>Based on manufacturing excellence and broad expertise, DILAS the diode laser company, describes its New High Power Diode Lasers with higher power and better beam parameters, allowing a whole product range of conduction cooled, fibre coupled diode lasers with several hundred of watts, as well as higher power Stacks in standard as well as customized solutions. Norishige Aoyagi / INDECO,INC.</p> <p>[ABSTRACT]</p>
<b>15:30~16:20</b>	<p>Latest in High Power Diode Laser Technology Akira Ishida / COHERENT JAPAN,INC.</p> <p>[ABSTRACT] At this seminar, we will introduce Coherent's new diode laser roducts and the new technology trend of diode lasers. We will provide overview of our diode laser line-ups as well as to introduce the new PulseLife series which is suitable for frequent on-off operations, and also will introduce the newly acquired Nuvonyx laser diode components and systems.</p>
<b>16:30~17:20</b>	<p>New Approaches to Visible Solid-State Laser Designs Thomas Kraft / JDS UNIPHASE CORPORATION</p> <p>[ABSTRACT] This new concept laser offers telecom-style packaging technology for enhanced reliability.</p>

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7/12 (Thu)

<b>10:30~11:20</b>	High Brightness Semiconductor Lasers  [ABSTRACT] QPC Lasers has demonstrated advances in high power laser diodes including increased spectral and spatial brightness from 780-1600nm.	Paul Rudy / QPC LASERS,INC.
<b>11:30~12:20</b>	Advances in High-Power Diode Lasers  [ABSTRACT] High Power Diode Laser Sources and their Impact on the Industrial, Medical Industries.	Merrill Apter / SPECTRA-PHYSICS,K.K.
<b>12:30~13:20</b>	Position Controlling system for the Laser with PSO function  [ABSTRACT] Introduction for "Position Synchronizing Output Function". The function perform the Ultra high accuracy laser synchronizing processing with unitron spatial shots fluent with the motion device including the galvano scanning device.	Chip Meisel / AEROTECH INC.
<b>13:30~14:20</b>	Ultrafast highpower fiber lasers for industrial and bio-medical applications  [ABSTRACT] First demonstrated in late 1980's, ultrafast fiber lasers are just starting to make an impact on the laser industry and global research community. While fiber amplifiers jump started optical telecommunications in 1990's and continuous wave (CW) high power fiber lasers are now changing material processing industries, ultrafast fiber lasers remained on the fringes of laser technology. However, this situation is changing fast, as ultrafast fiber lasers become a mature technology delivering up to 20W of power and multi- $\mu$ J pulses, enabling applications across 260nm-2500nm spectral range. Organizations capable of recognizing this industry shift are offered a unique opportunity to improve existing and create new applications of ultrafast high power lasers.	Vladimir G.Kozlov / FIANIUM,INC.
<b>14:30~15:20</b>	Advanced DPSS Laser Technology for Micromachining  [ABSTRACT] Lately in the field of electronics, as the trend for higher circuit density is accelerating, the demand for lasers that can mark finer linewidth and drill smaller holes at micron-level is becoming stronger. At this seminar, we will introduce Coherent's latest industrial lasers suitable for this field of micromachining applications along with the actual case examples that can illustrate their superior capabilities.	Tatsuzo Yamasaki / COHERENT JAPAN,INC.
<b>15:30~16:20</b>	Next Generation Ultrafast Lasers  [ABSTRACT] A latest review of the recent applications for Ultra-short pulse lasers.	Phil Smith / SPECTRA-PHYSICS,K.K.
<b>16:30~17:20</b>	New products of high power diode lasers for industrial application  [ABSTRACT]	Detlev Wolff / JENOPTIK LASERDIODE GMBH

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7/13 (Fri)

<b>10:30~11:20</b>	<p>Fiber based frequency combs and other applications of low noise ultrafast fiber lasers</p> <p style="text-align: right;">Ronald Holzwarth / MENLO SYSTEMS GMBH</p> <p>[ABSTRACT]</p>
<b>11:30~12:20</b>	<p>Super 5-axis nano machine "FANUC ROBONANO <math>\alpha</math>-0iB"</p> <p style="text-align: right;">Tomohiko Kawai / FANUC LTD.</p> <p>[ABSTRACT]</p> <p>Super 5-axis nano machine "FANUC ROBONANO <math>\alpha</math>-0iB" and various nano machining samples</p>
<b>13:30~14:20</b>	<p>New Advanced 3D CAD Environment for the Design and Simulation of Electro-Optical Devices and ModePROP, a New Optical Propagation Tool</p> <p style="text-align: right;">Dan Herrmann / RSOFT DESIGN GROUP,INC.</p> <p>[ABSTRACT]</p> <p>RSoft's new advanced 3D CAD environment will be introduced. The new version adds a 3D editing capability, a streamlined design process, and a refreshed appearance to RSoft's highly flexible and user-friendly CAD interface. This CAD Environment is shared by all of RSoft's passive device tools, including BeamPROP, FullWAVE, BandSOLVE, GratingMOD, DiffractMOD, and FemSIM. A new simulation tool for optical propagation will also be introduced. This new tool, which is based on the Modal Transmission Line Method, efficiently simulates both the reflected and transmitted fields. Several examples will be demonstrated.</p>
<b>14:30~15:20</b>	<p>OptSim : Advanced Optical Communication Systems imulation Software for Modeling Gigabit Ethernet, Electronic Dispersion Compensation (EDC), FTTH GEAPON, Radio-over-Fiber (RoF) Systems, and Liekki LAD Interface</p> <p style="text-align: right;">Jigesh Patel / RSOFT DESIGN GROUP,INC.</p> <p>[ABSTRACT]</p> <p>OptSim<sup>TM</sup> and ModeSYS<sup>TM</sup> are preferred tools for physical layer modeling and design optimization of photonic communication systems and networks. This presentation begins with simulation-assisted design of Gigabit Ethernet systems deploying multi-mode fibers and shows how electronic dispersion compensation (EDC) can help extend the reach and the bandwidth capabilities. Next we discuss modeling of FTTH/GEAPON in OptSim<sup>TM</sup> and learn how analog and digital triple-play services can be supported. The next two modeling examples of OptSim<sup>TM</sup> that are covered in this presentation are Radio-over-Fiber (RoF) and Liekki interface. The RoF is an attractive "last mile" connectivity solution as it helps simplify the design of base station (BS) and radio resource management tasks. For optical amplifier designers, OptSim<sup>TM</sup> offers a flexible and user-friendly interface with Liekki's Application Designer (LAD) tool enabling a user to include device level complexities into the system level modeling.</p>
<b>15:30~16:20</b>	<p>Latest technology and application development in Optical Coherence Tomography</p> <p style="text-align: right;">David Ren / THORLABS INC.</p> <p>[ABSTRACT]</p>