



Including presentations from:



2nd International Applications of High-Power Semiconductor Lasers – Lasers 2008

Assessing markets and the advancement of existing and emerging applications in industry, medicine/biomedicine, defense, aerospace, homeland security, displays and pumping

Three day event featuring one day of pre-conference seminars followed by two days of plenary sessions

Plus!

Don't miss the pre-conference seminars on Monday, October 6:

High Power Laser Diodes: Technology and Application and **A Laser Safety Overview for High-Power Lasers in Manufacturing**

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See registration page for more details.

Contact Mike Robert at mrobert@intertechusa.com or +1 207 781 9631 to register!

- **Increase your understanding** of the international industry landscape with speakers from Canada, Germany, the Netherlands, the UK, Japan and the US
- **Hear strategic analysis** of the rapidly emerging projection display market from **Insight Media**
- **Get updated** on the latest technical breakthroughs in semiconductor disk lasers for wind shear detection and communications from the **Institute of Photonics at the University of Strathclyde**
- **Find out about new applications** for semiconductor laser systems in printing electronics and display manufacturing from **Kodak Graphic Communications**
- **Discover the FDA's perspective** on semiconductor lasers in medicine
- **Gain key insights** into the hottest applications of high-power semiconductor lasers



Advisor
Dr Nissim Pilosof, Principal Engineer, Industrial Imaging Solutions, Graphic Communications Group KODAK GRAPHIC COMMUNICATIONS COMPANY, Canada



Advisor
Friedhelm Dorsch, Managing Director, Diode Lasers, TRUMPF PHOTONICS, US



Chair, Display Applications
Dr Kunihiro Washio, President PARADIGM LASER RESEARCH, Japan



Chair, Medical/Biomedical Applications
Dr Paul Rudy, Vice President Marketing and Sales QPC LASERS, US



Chair, Industrial Applications
Dr Friedrich Bachmann, Key Account Research, ROFIN-SINAR LASER, Germany



Chair, Advances in Technology and Pumping
Dr Robert Martinsen, Vice President Product Engineering, NLIGHT CORPORATION, US



US Chair, Defense/Aerospace/
Homeland Security Applications
Wade Collins, Sales Manager, Military and Aerospace NORTHROP GRUMMAN CUTTING EDGE OPTONICS, US

about the conference

Lasers 2008 is devoted to advancing the use of semiconductor lasers in industry, medicine/biomedicine, defense, aerospace, homeland security and displays, as well as other emerging application areas. With advantageous features such as compact size, efficiency, robustness, reliability, variable wavelength capability and power scalability, high-power semiconductor lasers have the potential to displace many lasers that are currently being used in these areas and stand poised to enable a number of novel applications.

This conference will bring together laser manufacturers and component vendors with current and prospective users of semiconductor laser technology to discuss market developments, application demand and technology requirements. **Lasers 2008** will serve as a leading forum for promoting understanding of opportunities and challenges, knowledge-sharing, cooperative problem-solving and networking. You won't want to miss out! **Register today!**

What's on the agenda?

Industrial applications: **Coherent Direct Diode Systems** will discuss the use of high-power direct diode lasers in laser welding, cladding, heat treating and emerging applications.

Medical/biomedical applications: **SpectraGenics** will describe the performance requirements and other parameters that must be fulfilled to integrate semiconductor laser diodes into medical devices for the consumer-use market.

Defense, aerospace and homeland security applications: **Daylight Solutions** will address the latest in mid-IR detection and imaging.

Display applications: **OSRAM Opto Semiconductors** will highlight developments in Red-Green-Blue (RGB) lasers for mobile projection displays.

Technical advances and pumping: **Mitsubishi Electric** will discuss the use of diode-pumped solid state lasers in solar cell manufacturing - a booming market!

Who should attend:

Over 100 participants from all segments of the high-power semiconductor laser value chain are anticipated at **Lasers 2008**. The conference is designed for key players and decision makers who have a stake in the supply, manufacture and consumption of direct diode and diode-pumped lasers in industrial, medical/biomedical, defense, aerospace, homeland security, display and energy markets. **Among those expected to attend are:**

- Presidents, CEOs and CTOs
- Design and application engineers
- Application lab managers
- Component vendors
- Medical therapy researchers
- Medical device developers
- Photovoltaic panel manufacturers
- Sales and marketing executives
- Product developers
- Equipment designers
- Laser manufacturers
- Laser buyers
- Job shop managers
- Display manufacturers
- Business development directors

pre-conference seminars

High-Power Laser Diodes: Technology and Application

Monday, October 6, 8:30am – 12:00pm

This seminar is designed to help attendees understand how high-power laser diodes are designed and tested. An introduction to typical applications addressing market segments such as material processing, printing, medical, defense, homeland security and telecommunication will be featured. Attendees will leave the seminar with a solid understanding of the day-to-day challenges in high-power laser manufacturing and quality control.

Those who should attend:

- Product developers
- Design and application engineers
- Application lab managers
- Equipment designers
- Laser manufacturers
- Anyone interested in understanding how high power laser diodes are designed and tested.

Your seminar leader:



Dr Berthold Schmidt, Vice President, Global Product and Market Development INTENSE LTD, Switzerland

Dr Berthold Schmidt is currently Vice President for Global Product and Market Development at Intense Ltd. Before joining Intense he was promoting the Industrial High Power Laser group of Bookham. During his time as R&D Manager at JDS Uniphase and later Nortel he was responsible for the development, qualification and implementation of 980nm pump laser diodes for telecom applications with their rigid reliability expectations. Dr Schmidt graduated from the Julius-Maximilians Universität at Würzburg, Germany. He received his MSc from SUNY University at Albany and his PhD degree from the Technical University at Munich, Germany. He holds various patents on the design of high power laser diodes and has (co)authored about 60 papers, conference papers and book chapters. Berthold Schmidt is member of the SPIE, SSOM and IEEE.

A Laser Safety Overview for High-Power Lasers in Manufacturing

Monday, October 6, 1:30 – 5:00pm

Don't miss this year's new seminar with Thomas Lieb from Rockwell Laser Industries. This session offers a comprehensive overview of lasers and laser safety with a basic overview of laser characteristics.

Topics to be discussed include:

- Biological effects of lasers
- Laser accident report analysis
- Laser safety regulations and standards (ANSI, CDRH, OSHA, and IEC standards)
- Laser classification
- Laser hazard analysis (OD, MPE, NHZ)
- Available control measures

This seminar is targeted to laser users as well as manufacturers of lasers and laser systems, including but not limited to laser operators, engineers, management and maintenance personnel.

Your seminar leader:



Thomas Lieb, Consultant/Lecturer/Designer ROCKWELL LASER INDUSTRIES, US

Thomas Lieb serves Rockwell Laser Industries as an Independent Consultant. He holds a BS/BA from the University of Redlands, with graduate studies in optical physics and mathematics. Working initially in telecommunications, he was involved in the first application of optical communication systems for commercial use and improved the optical design performance of several laser products for the rugged construction industry. He has managed comprehensive R&D projects, managed design on complete turn-key laser cutting systems, guided integration of laser optical systems, developed management and laser safety training programs and taught undergraduate engineering courses in Introduction to Laser Technology. Mr Lieb is a BLS Certified Laser Safety Officer, a Laser Safety Consultant and a senior member of SME, IIA and a delegate of various committees. He has also authored a variety of articles on industrial lasers and lasers for use in the EC, including trade publications *Photonics Spectra* and *The Fabricator*. He is the 2008 recipient of the International Electrotechnical Commission's "1906 Award".

Day one – Tuesday, October 7, 2008

7:00 Registration and coffee

8:00 Welcome and opening remarks
Olga Adamovich, Conference Director
INTERTECHPIRA, US

Session 1: Industrial applications

8:10 Opening remarks from the Session Chair
Dr Friedrich Bachmann, Key Account Research,
ROFIN-SINAR LASER, Germany

8:15 From printing graphics to printing electronics: New applications for semiconductor laser systems
• Kodak's laser imaging technology
• Applications in display and electronics manufacturing
• Business opportunities
Eran Elizur, General Manager,
Industrial Imaging Solutions
KODAK GRAPHIC COMMUNICATIONS COMPANY,
Canada

8:45 Industrial applications using high-power direct diode lasers
• How direct diode lasers can address industrial processing applications
• Market expansion and adoption by industrial customers
• Laser welding, cladding and heat treating with high power laser diodes
• Emerging opportunities for high power direct diode lasers
Dr Mark Zediker, Vice President
COHERENT DIRECT DIODE SYSTEMS, US

9:15 Laser assisted thermoplastic fiber placement
• Why thermoplastic composites
• Technical problems to be solved
• Applications
• Future developments
Coert Kok, Managing Director
AFPT, Netherlands

9:45 Morning refreshments and networking break

10:15 Efficient drying in sheet-fed offset printing with line emitting high-power diode lasers
• Building of line emitting diode laser systems
• Integration into near-series sheet-fed offset printing machine
• Possibilities and challenges of laser drying process of the offset ink layer
Dr Heiner Pitz, R&D
HEIDELBERGER DRUCKMASCHINEN, Germany

10:45 Diode-pumped solid-state lasers for surface texturing in manufacturing of highly-efficient 18.6% conversion efficiency: Polysilicon solar cells
• Applications
• Requirements
Tomotaka Katsura, Assistant Manager
MITSUBISHI ELECTRIC, Japan

Session 2: Advances in technology and pumping

11:15 Opening remarks from the Session Chair
Robert Martinsen, Vice President, Product Engineering
NLIGHT CORPORATION, US

11:20 The semiconductor disk laser: A new approach to laser applications ready source engineering
• Introduction, motivation and background
• The semiconductor disk laser
• Power scaling and thermal management
• 2.Xum semiconductor disk lasers
• Applications potential and markets
Dr John-Mark Hopkins, Senior Researcher
Institute of Photonics,
UNIVERSITY OF STRATHCLYDE, UK

11:50 Next generation, high-efficiency diode lasers for pumping fiber lasers
• Advances in device and packaging technologies to reduce costs
• Thermal management and long-term reliability of high-brightness pumps
• Scaling to several hundreds of watts of power from 100 and 200um fiber with wall-plug efficiencies exceeding 60%
• Efficient delivery of cladding-free light and other requirements specific to pumping fiber lasers
Robert Martinsen, Vice President, Product Development
NLIGHT CORPORATION, US

Monday, October 6 – Wednesday, October 8, 2008

Doubletree Hotel San Diego – Mission Valley, San Diego, CA, US

Day two – Wednesday, October 8, 2008

12:10 Roundtable luncheon

1:30 **Lifetime of diode lasers at very high power levels**

- Reduction of price per watt
- Increasing lifetime requirements
- Tailoring technology choices to meet price and lifetime demands of different applications
- Lifetime measurements and consequences of continuously rising output power

Dr Detlev Wolff, Manager, Sales and Marketing JENOPTIK LASERDIODE, Germany

2:00 **High-power, high-brightness, multi-purpose laser-head module**

- Basic concepts for high power and high brightness
- Modeling results
- Layout and design
- Characterization
- Summary and conclusions

Rajiv Pandey, Senior Product Manager DILAS DIODE LASER, US

2:30 **Lateral modes and slow axis divergence in broad area semiconductor lasers**

- Near and far field results for broad area semiconductor lasers at 8xx nm
- Effects of filamentation, current and heat spreading and polarization
- Effects of packaging stress
- Semi-empirical model for lateral modes in broad area lasers

David Schleuning, Engineering Manager

Co-authors: J Morales, R Pathak, J Watson, T Hasenberg COHERENT, US

3:00 **Efficiency or power? Both!**

- Low attenuation coefficient and very long diode lasers increase power and brightness
- Length and d/gamma scaling temper gain reduce power density in most sensitive areas of diodes
- Higher power by simultaneous scaling of length and d/gamma tempered by drop in extraction efficiency
- Record power values obtained out of 100 microns aperture; 3 microns and 2 cm envisioned for future

Iulian B Petrescu-Prahova, Principal Laser Scientist HPL Co-authors: P Modak, E Goutain, D Bambrick, D Silan, J Riordan, T Moritz and J H Marsh INTENSE, US

3:30 Afternoon refreshments and networking break

Session 3: Defense, aerospace and homeland security applications

4:00 Opening remarks from the Session Chair

Wade Collins, Sales Manager

Military and Aerospace

NORTHROP GRUMMAN CUTTING EDGE OPTRONICS, US

4:30 **Compact, portable external-cavity quantum cascade lasers for molecular detection and imaging**

- Importance of mid-infrared for molecular detection and imaging
- Performance of commercially available devices
- Battery-operated illuminators and portable sensors
- Applications

Eric Takeuchi, Director of Business Development DAYLIGHT SOLUTIONS, US

5:00 **Operation of laser diode arrays in harsh environments**

- Overview
- Harsh operating conditions: What customers require
- Operating challenges
- Overcoming challenges
- Results and conclusions

Dr Ryan Feeler, Senior Engineer, Diode Lasers

Co-authors: Jeremy Junghans, Dr Ed Stephens and Dr Stan Whiteley

NORTHROP GRUMMAN CUTTING EDGE OPTRONICS, US

5:30 **Size, weight, efficiency and other challenges in defense applications of semiconductor lasers**

Dr Alex Rosiewicz, CTO EM4, US

6:00 **Networking reception**

All speakers and delegates are invited to this relaxed and informal reception to network and discuss the day's proceedings

7:30 Continental breakfast

Session 4: Display applications

8:30 Opening remarks from the Session Chair

Dr Kunihiko Washio, President PARADIGM LASER RESEARCH, Japan

8:35 **Laser projection displays and the market potential**

- Potential markets
- Applications
- Requirements
- Future trends

Dr Robert Brown, Analyst

Co-authors: Matt Brennessoltz and Chris Chinnock INSIGHT MEDIA, US

9:05 **High-power red laser diode arrays and their application for laser displays**

- Development of high-power red laser diode arrays
- Application of high-power red lasers for projection displays
- Perspectives for further progress

Kazuya Wakabayashi, Super Laser Section, Advanced Light Technology Department SONY CORPORATION, Japan

9:35 **Necsel lasers: Built for lighting displays**

- Necsel laser technology update
- Key attributes lasers require for display applications
- Laser display market update

Greg Niven, Vice President, Marketing ARASOR, US

10:05 Morning refreshments and networking break

10:35 **R-G-B (red, green, blue) lasers for display applications**

- Market and business opportunities
- Low cost, high brightness, highly efficient chip for LCOS, DMD and micro-mirror display technologies
- Power scalability for projection display applications from 10 to 100,000 lumens

Dr Paul Rudy, VP, Marketing and Sales QPC LASERS, US

11:05 **R-G-B lasers for mobile projection applications**

- Laser projection applications
- Markets and light source requirements
- Status of red, green and blue semiconductor based lasers
- Outlook and summary

Dr Ulrich Steegmueller, Senior Application

Engineering Manager

OSRAM OPTO SEMICONDUCTORS, US

11:35 Roundtable luncheon

Session 5: Medical and biomedical applications

1:00 Opening remarks from the Session Chair

Dr Paul Rudy, VP, Marketing and Sales QPC LASERS, US

1:05 **The medical laser market landscape**

- Overall market for medical lasers in the US
- Trends affecting current and future utilization of medical lasers
- Emerging market for cardiovascular applications
- Opportunities for emerging and niche device developers

Venkat Rajan, Industry Manager, Medical Devices FROST & SULLIVAN, US

1:35 **High-power diode lasers:**

The ideal light source for hair removal

- Review of laser hair removal: History and size of market
- Opportunity presented by the emerging home hair removal market
- The science of hair removal: Why diode lasers are the best light source and how they could be better
- A wish list: How semiconductor manufacturers can help exploit hair removal improved design of diode lasers

Dr Mark V Weckwerth, Co-founder

and Executive Vice President

SPECTRAGENICS, US

2:05 **FDA and semiconductor lasers in medicine:**

Differences of semiconductor lasers/lights in medicine

- FDA involvement
- Medical specialty area: Does it matter?
- Future outlook

Neil R P Ogden, Chief, General Surgical Devices Branch FOOD & DRUG ADMINISTRATION, CENTER FOR DEVICES & RADIOLOGICAL HEALTH, US

2:35 Afternoon refreshments and networking break

3:00 **Light sources and delivery methods**

for photodynamic therapy

- New applications of PDT
- Specialized light sources and delivery methods for specific indications
- Treatment dosimetry and planning
- Competing light technologies

Dr Robert Weersink, Operations Director LABORATORY FOR APPLIED BIOPHOTONICS UNIVERSITY HEALTH NETWORK, Canada

3:30 **Aesthetic use of lasers: A review**

- Facial rejuvenation
- Skin tightening
- Fat and cellulite
- Ethical issues

Dr Christopher B Zachary, Professor & Chair, Department of Dermatology UNIVERSITY OF CALIFORNIA, IRVINE, US

4:00 Closing remarks

Olga Adamovich, Conference Director INTERTECHPIRA, US

4:10 End of conference

proceedings on cd



Get your proceedings on CD at the conference! Instead of a printed proceedings document, you can now view the latest full color version of the conference presentations on your laptop at the conference. You'll also receive an additional cd of modified presentations after the conference. This policy means more detail and up to date information while benefiting the environment and giving you less to carry on the journey home. For more information please contact Khaney Muyderman at khaney@intertechusa.com or +1 207 781 9614

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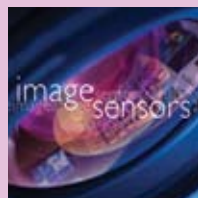
Join The Plastic Electronics Foundation and IntertechPira for the hottest plastic electronics event of the year! Following from the success of Plastic Electronics 2007, which was attended by over 500 key delegates from across industry and academia, this event will deliver a key line up of speakers and highlight the most significant developments in 2008.

Image Sensors 2008

November 17 - 19, 2008

Doubletree Hotel San Diego - Mission Valley, San Diego, CA, US

www.i-sensorsummit.com



The 2nd edition of this international event will address the latest trends and technologies within the image sensors industry and will focus on the most advanced application areas including security, surveillance, broadcasting, medical equipment, machine vision and automotive. Key challenges in achieving slimmer packaging, pixel size, and depth of field and resolution are only a few of the topics featured in this year's program. You won't want to miss out!

Industry Insights

Developments in Silicon Lasers

Silicon lasers have the potential for ultrafast information processing, as well as advancing biological and chemical sensing capabilities by permitting monolithic integration of sensing, spectroscopy, signal processing and computing, all on a single silicon chip. This **Industry Insight** covers the current situation in silicon lasers, including technological issues and company research strategies.



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Venue

AHPSL 2008 will be held at the Doubletree Hotel San Diego - Mission Valley, amidst world-class shopping, dining and entertainment, with easy access to San Diego's finest sightseeing and recreation. Downtown's historic Gaslamp Quarter, Petco Park, Qualcomm Stadium, Old Town, Tijuana, University of San Diego and San Diego State University are just a trolley ride away. The hotel offers complimentary airport pick-up, high-speed Internet access in all guestrooms, wireless Internet access in public areas, an outdoor pool and whirlpool, a 24-hour fitness center, tennis courts, an indoor lap pool and sauna, a café and a lounge serving breakfast, lunch and dinner.



Venue details:

Doubletree Hotel San Diego - Mission Valley

7450 Hazard Center Drive
San Diego, CA, US 92108
T: +1 619 297 5466
F: +1 619 297 5499

Accommodation

Speakers and delegates are responsible for booking their own travel and accommodation. A limited number of rooms have been reserved for conference speakers and delegates wishing to stay at the Doubletree Hotel San Diego - Mission Valley at a special rate of **\$149** plus taxes. Speakers and delegates must reserve their rooms no later than **September 12, 2008** to take advantage of this special rate. To book your accommodation, please contact the hotel directly at **+1 619 297 5466**. (Please state that you're attending the IntertechPira **Lasers** conference to receive the preferential rate). Additional information will be provided upon registration.

Conference fees

The conference fee includes entry to the conference sessions and the exhibition, full proceedings, lunch and refreshments. However, fees do not include delegate travel and accommodation. All credit card orders are processed at that day's £/€//\$ exchange rate at the time the transaction goes through. Payment is required before the start of the conference. Please see note in step 3 for further details. **PLEASE NOTE:** Credit card details will be necessary if your booking is made less than 10 days prior to the start of the conference, or if your invoice remains unpaid at the start of the event. Where funds have not been received in advance, delegates will be required to supply credit card details at registration in order to gain entry to the conference. This credit card will be charged on-site and current exchange rates and bank charges will apply.

Cancellations

Cancellations will be accepted and fees will be refunded (less 20% handling charge) only if made in writing and received 10 working days before the event. Bookings cannot be cancelled or fees refunded thereafter. Substitutions may be made at any time; if necessary, notify Mike Robert at mrobert@intertechusa.com or +1 207 781 9631.

Note

IntertechPira does not accept liability for any loss of or damage to the personal effects of delegates attending the conference. IntertechPira reserves the right to cancel, defer or modify the event proceedings without prior notice. If you have sent a booking to us but have not received confirmation at least one week prior to the event, please contact Khaney Muyderman at khaney@intertechusa.com or +1 207 781 9614.

Visas

Delegates requiring visas should request a visa invitation letter from IntertechPira at the time of registering for the event, ensuring sufficient time for applications to be completed. Delegates are then responsible for contacting the relevant embassy themselves. IntertechPira can do nothing further to assist in this process.

Your conference organizer

IntertechPira provides events, training, online information and publications across a wide range of niche commodities and disruptive technologies affecting industry. Our 100% independent products are provided globally 24/7 and delivered by teams of independent experts at sites in Portland, US and London, UK through 20 specialized industrial platforms. Our core competencies are information on: research and product development; globalization and new markets; production methods; regulatory and compliance.

Exhibition and sponsorship opportunities

IntertechPira's **AHPSL 2008** offers a unique opportunity to showcase your products and services all while accessing a high-level network of industry leaders who are shaping the development of semiconductor laser markets, technologies and applications. Depending on your goals and the level of sponsorship required, a benefits package can be designed to target a narrow audience or a broad group and may include event recognition as well as publicity, marketing, promotional opportunities and complimentary event passes. For more information on our many exhibit and sponsor opportunities that meet your business goals, please contact Brian Santos at: bsantos@intertechusa.com or +1 207 781 9618.

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 University of Strathclyde
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What conference attendees had to say about AHPSL 2007:

"Brings together laser experts and application experts for high-power semiconductor lasers."
Philips Lighting

"Well-focused semiconductor laser conference."
EM4 Inc

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Plus!

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High Power Laser Diodes: Technology and Application and **A Laser Safety Overview for High-Power Lasers in Manufacturing**

Lasers 2008 Conference Registration

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