Media Kit

Princeton Lightwave, Inc.

2004

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Company Backgrounder

Princeton Lightwave provides application specific solutions based on Near Infrared optical sources and detectors.

The Company’s core competencies are in designing and manufacturing High Power Lasers, Super Luminescent Diodes, Specialty Detectors, High Performance Avalanche Photodiodes and hybrid optics and electronics packaging. Our semiconductor experience covers Gallium Arsenide, Indium Phosphide and other exotic materials. Our packaging and manufacturing skills apply to very high reliability devices as well as to large volume production.

Princeton Lightwave focuses on delivering reliable, manufacturable products for the Medical, Communication and Defense markets.

Our Team has accumulated a considerable experience in the field of optical devices and has demonstrated multiple times how to move methodically from novel scientific achievements toward robust, scalable, low cost products. Our goal at Princeton Lightwave is to take the “magic” out of high performance optical devices and turn them into enabling components of our customers systems.

We operate on a fabless model. We design our semiconductor chips and have them processed in some of the world’s largest state-of-the-art crystal growth and foundry facilities. This allows our Company to design freely into a large variety of process tools usually not available under one roof and with the exacting control we are achieving with our model. At our designer’s choice, depending on device performance expectations, we have available all material growth methods and fabrication processes.

From the chips onwards, Princeton Lightwave manages a first class packaging facility capable of designing, prototyping, scaling and testing all completed modules for our customers.

Applications and Products

Princeton Lightwave’s products are used in many applications in three major markets, Medical, Communication and Defense.

Medical

The Company has developed InP based detector arrays for biological analysis. For example, one customer uses our multiplexed detector array with integrated read out electronics for an ultra sensitive diagnostic instrument.

Our fiber coupled Super Luminescent Diodes (SDLs) modules at 830 nm and 1550 nm were also developed for the medical diagnostic market. Our SLDs wide bandwidth and high power provide excellent accuracy in imaging applications.

Communication

We have designed highly reliable High Power 14XX fiber coupled pump lasers for Raman and EDFA pumping. Our pump lasers have fiber powers of up to 350 mW. These products are Telcordia qualified.

The Company has developed InGaAs Large Area Avalanche Photodiodes for use in high sensitivity detectors up to 10 Gb for free space communications and optical networking.

Defense

PLI’s High Power Laser Arrays were developed for defense applications such as Infrared Counter Measures. Our arrays have wavelengths up to 1850 nm for the direct pumping of Thulium, Holmium and Ytterbium fibers.

High Power Lasers in the 1.5 µm range were designed for eye safe illumination uses. Similarly, our InGaAs Large Area Avalanche Photodiodes are used in Range Finding applications.
The Management Team

Our team, at Princeton Lightwave, brings together an exceptional set of attributes in a start-up.

As a group we cover a wide range of technical, operational and business skills. We are experts in semiconductor lasers, photodetectors, optical assemblies and product integration. We have managed start-ups and large, high volume factories. We have a proven record of designing, manufacturing and supplying the products to a diverse customer group in the optics industry. We have sold to the most demanding industry leading companies, as well as to governments that demand highly reliable products at state of the art technology.

Most important, our people have known each other for a long time. They have worked together, weathering the best and worst that the optical industry has gone through in the past 20 years. The closeness of our group, tied with exceptional individual abilities is our best asset.

Team Members

Mark Itzler and Dmitri Garbuzov lead our technology efforts, in particular the design of unique Indium Phosphide-based, high performance lasers and detectors.

On the operations side, Sabbir Rangwala and Nancy Morris manage all the aspects of product development, manufacturing and supplier management. Bouch Nessar is responsible for our customers, with the support of Alka Swanson who also handles business development and Yves Dzialowski our CEO.

Management Team Biographies

Mark Itzler

Mark Itzler, our CTO, comes from JDS Uniphase and EPITAXX. He has managed the development of multiple advanced optical devices, including a 10 Gb Avalanche Photodiode, a 40 Gb PIN diode and detector arrays for monitoring. He has managed a large scale InP foundry facility and has been responsible for technology evaluation for all active optical devices. At PLI, Mark focuses on the management of semiconductor device design and of our external epitaxy and foundry suppliers.

Mark has a Ph.D. in Physics from University of Pennsylvania.

Dmitri Garbuzov

Dmitri Garbuzov, our Chief Scientist, comes from a long tenure as the top executive at the Ioffe Institute in St. Petersburg. After he emigrated from the Soviet Union he joined Sarnoff Research Corporation. He has led the most significant achievements in theoretical and experimental laser technology. He holds several world records for power and lifetime of lasers in Gallium Arsenide, as well as, in Indium Phosphide. He has authored hundreds of scientific papers and patents.

Dmitri’s Doctorate in Physics is from St. Petersburg State University in Russia where he originated seminal work on GaAs lasers.

Sabbir Rangwala

Sabbir Rangwala, our VP Products and Operations, comes to us with a versatile background in development and operations for the telecommunications industry. He was part of the team that designed the first undersea pump laser at AT&T in the late 80s, moved on to the service side and became an operations consultant at AT&T and Deloitte. He joined EPITAXX, at the time of the JDSU acquisition and was in charge of all packaging operations for active devices (lasers, detectors, etc.). He has experience in all facets of product realization, manufacturing and operations in both small and large environments.

Sabbir has a Ph.D. in Mechanical Engineering from the University of California at Berkeley.
Management Team Biographies Continued

**Nancy Morris**

Nancy Morris, our Director of Operations, is responsible for the management of our factory, our supplier relationships and especially our foundries. She came from Sarnoff Research Corporation, a company she had joined years earlier when it was still RCA Laboratories. She is expert in materials and devices and has been involved with epitaxial growth and processing in multiple material systems for multiple semiconductor devices. She has also managed the functions of quality and ERP.

Nancy holds a MS degree in Electrical Engineering from the University of Pennsylvania.

**Bouchaib Nessar**

Bouchaib Nessar is our Director of Marketing and Sales. He came from EPITAXX and JDS Uniphase, where he managed product lines that generated over $100M in revenues. He has sold to all the first tier optical networking companies: Alcatel, Ciena, Lucent, Nortel, Pirelli as well as to start-ups. His experience with customers spans the entire globe.

Bouch has a MS in Optics from the Engineering School in Marseilles.

**Alka Swanson**

Alka Swanson is our Executive Vice President. She was most recently the General Manager for the EPITAXX division of JDS Uniphase, which she joined many years prior as Director of Sales and Marketing. Under her management, revenues grew five fold to over $50M per quarter. Even during the massive downturn that the Optical industry suffered, her operations emerged as particularly resilient and her facility became a consolidation center for JDS Uniphase. At PLI she links both customers and operational activities.

Alka got her Ph.D. in Physics from Boston University.

**Yves Dzialowski**

Yves Dzialowski is our CEO. He spent his 25 years career in optics, particularly fiber optics. He started in marketing with General Optronics and Photodyne, then at EPITAXX where he was President. After JDS Uniphase acquired EPITAXX he became Senior VP for Strategy and Business Development.

Yves has a Doctorate in Optics from the University of Paris.
For Immediate Release:

Princeton Lightwave Introduces Extended Wavelength High Power Lasers

Cranbury, NJ, January 27, 2004- Princeton Lightwave, Inc. (PLI), a leading maker of near infrared high-power lasers and application specific detectors for communications, instrumentation and defense applications, announced today that it has introduced a 1850 nm high power multimode laser array.

The product delivers an unmatched continuous-wave output power in excess of 10 W and a threshold current as low as 7 A. The product is designed to provide very high power for direct or diode pumped solid state laser applications with the highest reliability.

"Princeton Lightwave continues to demonstrate its leadership in the area of high power, high reliability long wavelength diode lasers." says Bouch Nessar, Director of Marketing & Sales "with output powers in excess of 10 W at 1850 nm, PLI customers can now reduce size, cost and achieve higher reliability on very high intensity sources."

About Princeton Lightwave, Inc.
Headquartered in Cranbury, New Jersey, PLI provides leading edge semiconductor lasers and detectors for optical communications, instrumentation and defense applications. PLI's rich product capability is based upon unique GaAs and InP optical chip design, packaging and integration technology. Its multi-disciplinary team designs and delivers high power pump modules, single and multi-mode light sources, and high performance detectors.

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For Immediate Release:

**Princeton Lightwave Adds Business and Product Management Leadership**

**Cranbury, N.J., January 9, 2004** - Princeton Lightwave, Inc. (PLI), a leading maker of near infrared high-power lasers and application specific detectors for communications, instrumentation and defense applications, announced the appointment of three senior executives in R&D and Operations.

Alka Swanson was appointed Executive Vice President of the Company in charge of Sales, Marketing & Business Development. Most recently she was, like the other new executives at the EPITAXX division of JDS Uniphase. There, she was the General Manager and she ran a high volume operations dedicated to detectors and receiver modules for telecommunications. At PLI she is responsible for the overall business strategy and ties together business and operational activities. Alka has a Ph.D. in Physics from Boston University.

Sabbir Rangwala is the new Vice President of Products and Operations. He has previously managed packaging operations for active devices (lasers, detectors, etc.). At PLI, he will manage all facets of product realization and operations. Sabbir has a Ph.D. in Mechanical Engineering from the University of California at Berkeley.

Mark Itzler joined as Chief Technical Officer. He has managed the development of multiple advanced optical devices, including a 10 Gb Avalanche Photodiode, a 40 Gb PIN diode. He has managed a large-scale InP foundry facility and has been responsible for technology evaluation for active optical devices. At PLI, Mark will focus on the management of semiconductor device design and of foundry services. Mark has a Ph.D. in Physics from University of Pennsylvania.

"We have brought together a very experienced team," says Yves Dzialowski, CEO of Princeton Lightwave. "We have worked together in a small company and grew it to a very large scale business based on commitment to offer the best performance to our customers. Similarly, we have at PLI an outstanding set of technological resources in high power lasers, in detectors and in module and sub-system integration. This will allow us to address new applications for optical systems in telecom and other fields like instrumentation and defense."

**About Princeton Lightwave, Inc.**

Headquartered in Cranbury, NJ, Princeton Lightwave provides leading edge semiconductor lasers and detectors for optical communications, instrumentation and defense applications. PLI's rich product capability is based upon unique GaAS and InP optical chip design, packaging and integration technology. Its multidisciplinary team designs and delivers high power pump modules, single and multi-mode light sources, and high performance detectors. For more information visit www.princetonlightwave.com.

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Cranbury, N.J., September 26, 2003 - Princeton Lightwave, Inc. (PLI), a leading maker of near infrared high-power lasers and specialized detectors for communications, medical instrumentation and defense applications, announced today that it has entered into a supply agreement with a major South American Telecom Equipment vendor.

Under the terms of the agreement, PLI will deliver high power 1480 nm pump modules to be deployed in Long Haul optical networks. This agreement confirms the reputation of PLI high power laser pumps for performance and reliability.

"We are extremely excited by this tremendous opportunity," says Yves Dzialowski, CEO of Princeton Lightwave. "The strategic agreement with a leading South American equipment vendor is an endorsement and validation of what we are striving for at PLI. We have put together a very dedicated, experienced and focused team. We are delivering best-in-class performances, built on a robust and scalable platform."

About Princeton Lightwave, Inc.
Headquartered in Cranbury, New Jersey, PLI provides leading-edge semiconductor lasers and detectors for optical communications, medical systems and defense applications. PLI’s rich product capability is based upon unique chip level design, packaging and integration technology. Its multi-disciplinary team designs and delivers high power Raman and EDFA pump modules, high power single- and multi-mode light sources, and high performance detectors. For more information visit www.princetonlightwave.com

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