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Epitaxy and Processing: VCSELs, QCLs, and InGaAs Detectors

Thursday, December 16, 2021 10:00 AM - 11:00 AM EST

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Presented by



.: About This Webinar

Włodzimirz Strupinski, Ph.D., and Marcin Gebcki, Ph.D., of VIGO System SA offer perspective to industry specialists and experts who share a technological interest in the epitaxy, processing, and integration of vertical-cavity surface-emitting lasers (VCSELs), quantum cascade lasers (QCLs), and indium gallium arsenide (InGaAs) devices.

They explain the manufacturing process for achieving state-of-the-art compound semiconductors and devices and invite an industry-wide discussion for exchanging ideas and sparking inspiration for innovative photonic products. Strupinski and Gebcki are joined by colleagues Iwona Pasternak, Ph.D., Walery Kolkowski, Ph.D., and Jacek Strupinski, Ph.D., for a live Q&A at the end of the webinar.

Who should attend:

R&D scientists, engineers, and manufacturing specialists, managers, and buyers who work with laser technologies and materials for industries ranging from aerospace to biophotonics to consumer applications. The focal technologies of this webinar are VCSELs, QCLs, and InGaAs. Anyone interested in learning more about how devices reliant on these lasers are built and implemented, and how they can be applied in the future, is invited to join the discussion in this event.

About the presenters:

Włodzimirz Strupinski, Ph.D., is head of Epitaxy Department III-V MOCVD at VIGO System SA. Before joining VIGO System, he was head of the Epitaxy and Characterization Department at the Institute of Electronic Materials Technology (ITME), which was composed of 25 professionals with in-depth knowledge and expertise in semiconductors physics, epitaxial growth of semiconductor compounds, and material characterization. Strupinski's activities focus on III-V and IV-IV epitaxial materials research and production for advanced electronics, as well as on research and industrial applications of graphene. He holds a doctorate in physics.

Marcin Gebcki, Ph.D., received his Master of Science and doctoral degrees in technical physics from Lodz University of Technology in 2012 and 2017, respectively. From 2015 to 2019, he worked at the Technical University of Berlin, where he manufactured the world's first VCSEL that used a monolithic high-contrast grating mirror, and developed several datacom VCSEL structures. His main research interests are VCSELs, subwavelength gratings, and photonic integrated structures. At VIGO System, he is responsible for developing the company's various VCSEL and VCSEL array technologies.

Iwona Pasternak, Ph.D., is a senior epitaxy engineer in the Epitaxy Department at VIGO System SA. She also collaborates with the Faculty of Physics at Warsaw University of Technology (WUT) to develop graphene and other growth technology for 2D materials. At VIGO System, she focuses on characterizing and manufacturing epitaxial structures of III-V semiconducting compounds. She holds a doctorate in materials engineering.

Walery Kolkowski (V. Kolkovsky), Ph.D., completed his doctorate in semiconductor physics at the Institute of Physics Polish Academy of Sciences. His research there focused on the growth of thin II-VI semiconductor structures and nanostructures by molecular beam epitaxy (MBE). After receiving his doctorate, Kolkowski moved to Germany in 2017 to work as a postdoc at the Technische Universität, Dresden. In 2019, he joined VIGO System SA as a senior engineer in the Epitaxy Department. In this role, he focuses on the MOCVD growth of novel semiconductor structures, dissimilar materials integration, and strained thin-film heterostructures.

Jacek Strupinski, Ph.D., is a business development specialist at VIGO System SA. He is a startup enthusiast with cross-industry experience. In VIGO System's Epitaxy Division, he is responsible for global sales and marketing of III-V epi-wafers for photonics and microelectronics applications. He received a Master of Science in international management from the CEMS program at Copenhagen Business School, and Master of Arts and doctoral degrees from the Warsaw School of Economics.

About VIGO System:

VIGO System SA manufactures exceptionally high-quality III-V epitaxial structures for use in sophisticated electronics such as lasers, photodetectors, transistors, photovoltaic cells, and other devices. As one of the few companies involved in this market, VIGO System offers a broad range of high-quality epi-wafers, which can be produced in large volumes as well as in small test batches.



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