

BIOPHOTONICS

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WEBINARS

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Emerging Technologies Changing Ophthalmology Access and Point of Care

Thursday, March 17, 2022 10:00 AM - 11:00 AM EDT

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Presented by



.: About This Webinar

Rising cases of ocular disorders are expected to boost the growth of the global ophthalmology diagnostics and surgical devices market. Supporting this growing demand will be new innovations that help practitioners gain immediate results to enhance the accuracy of the diagnosis and the selection of treatment.

This webinar — for those interested in visual optics, ophthalmology, and biomedical devices — introduces five technologies that are using optics, photonics, or imaging to redefine how patients are served along the point-of-care continuum, from diagnosis and treatment to surgical selection and correction. It also showcases how technologies are being applied to make tools more mobile and accessible, minimize workflows, and reduce the risks associated with COVID-19 to significantly improve both the patients' and the practitioners' experience.

Attendees will learn how:

- **Intel Optics' noncontact high-resolution BOSS™** (Brillouin Optical Scanner System) creates three-dimensional "stiffness" maps of the cornea to diagnose weakening in the tissues within and surrounding the cornea and lens, and determine whether a patient is a good candidate for refractive or corneal surgery.
- **OVITZ's xwave Aberrometer**, coupled with proprietary software, enables ophthalmologists to prescribe customized scleral contact lenses for patients with higher-order visual aberrations that cannot be treated using off-the-shelf contact lenses.
- **The AkknaTek Lens Reviewer** identifies displacement of intraocular lenses (IOLs), post-surgery, enabling ophthalmologists to intervene and realign the lenses before the eye has completely healed.
- **Lummedica Vision's low-cost OQ EyeScope** detects subsurface diseases of the retina, years before symptoms arise, and does so for one-third the cost of large, stationary spectral-domain optical coherence tomography systems.
- **2EyesVision's SimVis Gekko** enables patients to try different types of multifocal IOLs before committing to surgery.

Technologies will be covered in five minute overviews, with a panel discussion to follow. Questions from attendees will be taken.

Who should attend:

This webinar is for anyone interested in visual optics, ophthalmology, and biomedical devices. This includes R&D scientists, corporate managers and consultants, and others involved in medical imaging market research, purchasing, design, and manufacture.

About the presenters:

Sujatha Ramanujan, Ph.D., is managing director of Luminare and moderator of this event. She is a serial entrepreneur, having started and grown three startup businesses in cardiac surgical equipment, optical communications, and nanomaterials. As CTO and product line manager of mammography CAD and pediatric businesses within Kodak and Carestream, she and her team developed and launched clinical equipment and clinical IT on every continent. Ramanujan has held scientific, technical leadership, and laboratory head positions in Chrysler Corp., GE, Kodak, Carestream, and Intrinsic Materials. She holds 28 issued U.S. patents. She obtained a Ph.D. in electrical engineering from the University of Michigan.

Dimitri Chernyak, Ph.D., is president and CEO of Intelon Optics. He has been in the medical device industry for over 20 years and has a broad background in product research, development, and the scaling up of businesses. He has managed multiple R&D organizations, working closely with cross-functional teams (including clinical research, medical, and regulatory affairs) to get products in the market. His industry experience includes VISX, AMO, Abbott, and Johnson & Johnson. Chernyak received his Ph.D. at the University of California, Berkeley.

Felix Kim is founder and CEO of Ovitz, the \$1 million winner of the Luminare Accelerator. Ovitz has developed an individualized vision-enhancing contact lens innovation that significantly improves people's vision quality: clarity, contrast, and depth perception.

Edgar Janunts, Ph.D., is founder of AkknaTek. Janunts graduated from the International Max Planck Research School for Optical Imaging (IMPRS-OI) in Erlangen, Germany, followed by an internship at Harvard Medical School and Massachusetts General Hospital in Boston and EPFL in Lausanne, Switzerland. After obtaining his Ph.D. degree, he returned to Germany and continued his research and development activities in the field of ophthalmology and ophthalmic optics at the University of Saarland.

Adam Wax, Ph.D., is co-founder and president of Lumedica, which launched in 2014 with the vision of building low-cost biomedical imaging systems for research and clinical use. Wax holds a doctorate in physics from Duke University and joined the faculty in 2002 as a professor of biomedical engineering. His research focuses on applying optical spectroscopy techniques to biomedical applications including early detection of cancer, retinal diseases, and potentially Alzheimer's disease. Innovative techniques from his research have served to decrease the cost of optical coherence tomography imaging tools with the hope of increasing access to imperative medical screenings. He is a fellow of OSA, SPIE, and AIMBE. In 2020, he was selected as editor-in-chief for *Optics Engineering*, a peer-reviewed SPIE journal focusing on research in optics and photonics.

Susana Marcos, Ph.D., is co-founder of 2EyesVision, which launched in 2015. Marcos is also director of the Center for Visual Science and professor of optics at the Institute of Optics at the University of Rochester, as well as a professor of ophthalmology at the Flaum Eye Institute in Rochester. She has published more than 180 research articles and is the inventor of 20 patent families, 14 of which are licensed to the industry. Her research has been key to spin-off companies Plenoptika and 2EyesVision. She is an acclaimed researcher in the field of visual optics and ocular imaging and a pioneer in the development of new techniques for the evaluation of the eye, including: retinal imaging instruments, aberrometers, adaptive optics, anterior segment imaging of the eye, and intraocular lens designs. She earned her Bachelor and Ph.D. degrees in physics at the University of Salamanca, Spain.

About Luminare:

Luminare is the world's largest startup accelerator for optics-, photonics-, and imaging-enabled applications. Five companies within its portfolio are solving devices market by bringing emerging technologies to ophthalmologists that will extend their practice options and patient options and satisfaction.

.: Mark Your Calendar

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