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The Laser-Driven Light Source: Theory, Practice, and Applications

Thursday, December 1, 2022 1:00 PM - 2:00 PM EST

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.: About This Webinar

Numerous applications require broadband light sources that have stable output, high brightness, stable spectral composition, and a high degree of spatial coherence. The traditional broadband light sources, such as thermal black bodies or plasma discharge tubes, satisfy some of these performance requirements but rarely all. The Laser-Driven Light Source (LDLS) offers a significant performance improvement over traditional sources and is rapidly becoming the light source of choice in applications such as semiconductor wafer inspection, image sensor characterization, and the testing of optical systems such as telescopes.



Slawomir Piatek, Ph.D., briefly reviews the traditional broadband sources and compares them with the LDLS. He focuses on the operating principles of the LDLS, its optical characteristics, and existing and future applications.

Who should attend:

Engineers, R&D scientists, and manufacturers who work with or utilize broadband light sources. Those who work in purchasing, integration, consulting, and education who are interested in learning more about the Laser-Driven Light Source. Those who work in aerospace, defense, automation, test & measurement, medicine, and environmental research.

About the presenter:

Slawomir S. Piatek, Ph.D., is a senior university lecturer on physics at the New Jersey Institute of Technology and a science consultant for Hamamatsu Corp. At the university, he has been measuring the proper motions of nearby galaxies using images obtained by the Hubble Space Telescope. At Hamamatsu, he has developed a photonics training program for engineers. Piatek is also involved in popularizing the silicon photomultiplier (SiPM) as a novel photodetector by writing and lecturing, and by experimenting with the device. He earned a doctorate in physics from Rutgers, The State University of New Jersey, in 1994.

About Hamamatsu Corp.:

Hamamatsu Corp. is the North American subsidiary of Hamamatsu Photonics KK (Japan), a leading manufacturer of devices for the generation and measurement of infrared, visible, and ultraviolet light. These devices include photodiodes, silicon photomultipliers, photomultiplier tubes, scientific light sources, infrared detectors, photoconductive detectors, and image sensors. The parent company is dedicated to the advancement of photonics through extensive research. This corporate philosophy results in state-of-the-art products that are used throughout the world in scientific, industrial, and commercial applications.

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