

PHOTONICS spectra

WEBINARS

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Principles and Applications of Light and Color Measurement

Wednesday, August 19, 2020 1:00 PM - 2:00 PM EDT

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Presented by



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.: About This Webinar

The properties of light that stimulate the eye and build our visual perception also guide the design of illuminated devices. Thanks to well-established scientific methods, we can quantify the human eye's response to light in a mathematical context to enable machines to perform automated optical metrology. Light measurement systems such as imaging photometers and colorimeters use CIE-matched optical filters and scientific-grade imaging sensors to apply these methods, capturing meaningful data that guide human-centric design and evaluation of many of today's devices. Using photometric technology, manufacturers can leverage the standard principles of light and color measurement in design and production to best assess the visual quality of displays, backlit components, and light sources — as they are actually seen and experienced by users. This provides manufacturers with the means to achieve objective product quality.



Join Jessy Hosken, product engineer at Radiant Vision Systems, as she introduces the basic principles and applications of light and color measurement. Hoskens will discuss the foundations of photometry and colorimetry, and introduce photometric technologies that leverage these principles to accurately quantify the human visual response to guide quality in light and display products.

Topics include:

- How the human eye responds to light and color.
- Quantifying color based on CIE tristimulus curves.
- Technology designed to replicate human visual response.
- Optical metrology systems and benefits of imaging for light measurement.

Who Should Attend:

Engineers, technicians, scientists, consultants, managers, and others who use, design, build, or integrate display and light systems. Anyone involved in light applications who needs an introduction or refresher on human-centric optical metrology and its industrial uses.

About the Presenters:

Jessy Hoskens began her career at Radiant as an application engineer, where she worked directly with customers to support projects and implementations of Radiant hardware and software technology. In her current role as product engineer, she is involved in overseeing product life cycles, including guiding, documenting, and communicating product developments as part of the product management team. Through her experience at Radiant, she has developed a thorough understanding of light and color measurement using imaging colorimeters and sophisticated software tools. She has a passion for solving complex, interdisciplinary problems and working with cross-functional teams to ensure that Radiant continues to produce and ship industry-leading products to its global customers. Hoskens received a B.S. in physics and STS (science, technology, and society) from the University of Puget Sound in Tacoma, Wash.

Ryan Beaty, technical sales manager at Radiant, will join Hoskens during the webinar's live Q&A following the presentation. Beaty began his career at Radiant as an application engineer, later moving to Korea to support growth in Radiant's Korean and greater Asian markets. He now manages the Application and Solutions Engineering Team as technical sales manager at Radiant's U.S. company headquarters, coordinating resources to solve diverse customers' projects with pre-sales guidance, proof-of-concept testing, and post-sales support. Through his experience, Beaty has developed an in-depth knowledge of light and color measurement principles and applications using scientific imaging colorimeters, and he understands the intricacies of Radiant's metrology software, including how to develop within its framework. Beaty received a B.S. in physics and astronomy from the University of Washington in Seattle.

About Radiant Vision Systems:

Radiant Vision Systems engineers advanced imaging systems to evaluate light, color, manufacturing integrity, and surface quality of illuminated displays, backlit components, light sources, electro-mechanical assemblies, and finishes. Using scientific-grade photometric and colorimetric imagers calibrated to human perception of light and color, Radiant technologies ensure quality that accurately reflects customer experience. Based in Redmond, Wash., Radiant Vision Systems has proven production experience with thousands of cameras testing millions of lights and displays. The company approaches each application with a wider range of solution options, a global base of experience, and a depth of understanding that enable it to keep raising the benchmarks for practical performance.

.: Mark Your Calendar

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