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Airborne Remote Methane Quantification Using Thermal Infrared Hyperspectral Imaging

Thursday, September 15, 2022 1:00 PM - 2:00 PM EDT

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.: About This Webinar

Methane is a powerful greenhouse gas and many regulatory bodies around the world are taking significant steps toward sharply reducing its emissions from the oil and gas sector. A large portion of such emissions comes from a small fraction of "super-emitting" sources. Airborne infrared hyperspectral imaging can visualize and quantify these emissions and gas leaks under various environmental conditions and industrial contexts.

The capabilities of airborne-based methane emission detection systems were recently demonstrated in a measurement campaign composed of multiple controlled releases with methane flow rates varying from 3 to 55 cubic meters per hour (m³/h). The results of this demonstration show that these systems can detect methane emission rates as low as 3 m³/h as well as a parity slope of 0.99, which indicates strong agreement between commanded leak rate and retrieved leak rate. Based on the data collected during these tests, airborne infrared hyperspectral imaging is a highly efficient and sensitive tool for the detection and quantification of methane leaks.

Who should attend:

R&D scientists and engineers who use thermal infrared hyperspectral imaging. Those who are interested in the capabilities of airborne-based methane emission detection systems. Anyone who works in test and measurement or quality control in industries such as energy, environmental research, medicine, aerospace, and defense.

About the presenter:

Benjamin Saute, Ph.D., is the primary U.S. field application engineer with Telops, a leading firm providing high-capability quantitative gas imaging solutions based on thermal infrared imaging technology. Saute earned a doctorate in analytical chemistry from the University of Rhode Island in 2012. Since then, he has worked in different roles exploring the development and application of advanced spectroscopic and imaging techniques for a wide variety of environmental challenges. In his current role with Telops, he is a technical expert working on the development and deployment of Telops gas imaging technology in ports, refineries, and other heavy industrial field locations.



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