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The Heart of Gas Sensors: Novel IR Detectors for Gas Analysis

Thursday, June 27, 2024 10:00 AM - 11:00 AM EDT

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Presented by



This webinar covers the heart of gas sensors: IR detectors. Jędrzej Mijas of VIGO Photonics discusses optical gas analysis in MIR as the most efficient gas analysis field, with special emphasis on choosing the proper IR detector for each gas sensing technique. As the most important gaseous species to detect are methane (CH₄), ammonia (NH₃), nitrous oxides (NO_x), and sulphur oxides (SO_x), techniques for accurate detection of these substances in various applications are the core of this presentation. He also addresses the pros and cons of various techniques, especially nondispersive infrared (NDIR), tunable diode laser absorption spectroscopy (TDLAS), and Fourier transform infrared (FTIR). Next, he touches on the novel IR detectors manufactured by VIGO for gas analysis, showcasing the specific features that make them the best fit for gas analysis. Finally, he describes both high-end mercury cadmium telluride (MCT) detectors tailored for gas analysis, as well as cost-effective and RoHS-compliant III-V superlattice detectors. Attendees will benefit by obtaining a clear image of IR gas analysis and will be more confident in the choice of detector for the job. Presented by [VIGO Photonics](#).



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