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"The Spaceborne Infrared Atmospheric Sounder. Next Gen Hyperspectral IR for Earth Science"

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Presentation: Oral

Brief Biography:
Thomas S. Pagano is the Project Manager for the AIRS/AMSU/HSB Suite of instruments on the EOS Aqua Spacecraft. He was the lead engineer responsible for the calibration of the AIRS instrument in orbit. Prior to joining JPL in 1997, he was the Chief Systems Engineer on the MODIS instrument development program at Raytheon SBRS since 1985. He has a BS in Physics from UC Santa Barbara, and an MS in Physics from Montana State University. He holds 2 US patents and is author of numerous papers on space remote sensing systems.

Abstract Text:
The Spaceborne Infrared Atmospheric Sounder (SIRAS) is an instrument concept to acquire high spectral resolution, high spatial resolution infrared measurements of the Earth for meteorological and scientific applications. The key technology developed under the SIRAS Instrument Incubator Program (IIP) was a compact wide field grating spectrometer capable accommodating a 256 x 256 FPA covering a 16 degree field of regard. NASA has funded a second phase of development of the SIRAS spectrometer that will lead to full system development including integration in a dewar and use of a miniature pulse tube cooler. The SIRAS IIP program technology and test results will be presented.