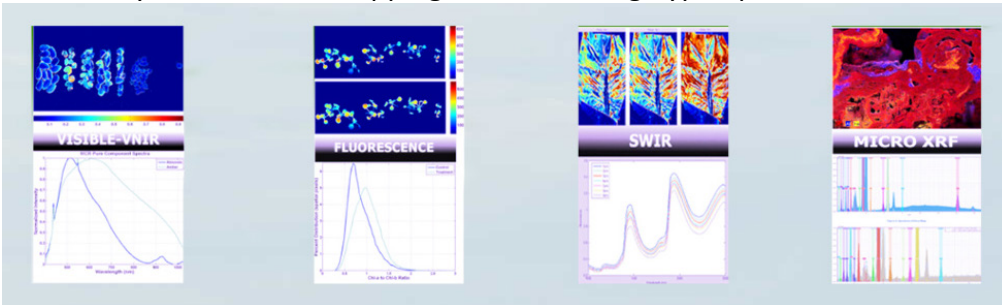


Introduction to Hyperspectral Imaging for Elemental and Molecular Imaging Applications

ABSTRACT

Hyperspectral imaging comprises a number of different techniques where each point in an image has a full continuous electromagnetic spectrum associated with it. The technique offers spectral camera options that span the visible to the long wave infrared.

This talk will discuss the origins of hyperspectral imaging and some new innovations such as micro x-ray fluorescence mapping and combining hyperspectral with fluorescence imaging.



BIOSKETCH



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After a degree in chemical engineering and a doctorate in spectroscopy from the Technical University of Budapest, Hungary, Dr Kemeny was a postgraduate with Prof. Peter Griffiths at Ohio University and Prof Wetzel at Kansas State University.

He held Senior Scientist positions in spectroscopy at Technicon Instruments (now Bayer), Nicolet Instruments (Now ThermoFisher) and Rio Grande Medical. He was Director of Near-Infrared Technology of Bran&Luebbe GmbH and worked at Pike Technologies in Madison WI. He is a founder and President of Middleton Spectral Vision and holds several patents in the area of near-infrared and hyperspectral imaging.