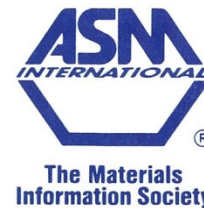




SOUTHERN CONNECTICUT CHAPTER

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TECHNICAL MEETING ANNOUNCEMENT

THURSDAY, February 19, 2009

TOPIC: Latest Generation of X-Ray Detectors for Microanalysis

Until recently, Si (Li) detectors have been the preferred choice for the materials characterization scientist for microanalysis. The Si(Li) detectors have evolved to perform at very near theoretical limits of energy resolution. Recently however, new technologies have opened new dimensions to EDS analysis. Development and commercial availability of the Silicon Drift Detector (SDD) has enabled collection of x-ray events at much higher count rates without significant resolution degradation.

In order to take full advantage of these high count rates, the counting electronics needs to operate at sub microsecond shaping times. In the latest designs of digital pulse processors (DPP III) it is not only possible to select short shaping times but use adaptive processing to make optimum use of time between pulses for filtering.

To compliment EDS, WDS is used to provide improved energy resolution, precision and accuracy. The main issue with the WDS system was related to their speed and sensitivity, which limited the acceptance of the WDS technique. The latest generation WDS system PBS (parallel beam spectrometers) addresses the issue of speed and sensitivity due to the compact design and design of the optics to produce a parallel beam of x-rays.

In this Presentation, Del will discuss the latest developments in X-ray detectors for Microanalysis, concentrating on the SDD and PBS and several applications, including fast x-ray mapping, where the use of high count rate capable SDD and high sensitivity and selectivity PBS will be illustrated.

SPEAKER: Del Redfern

EDAX Inc.
91 McKee Drive
Mahwah, NJ 07430 U.S.A.
Product Manager

Del is responsible for sales and support in the Americas region. Del has worked for EDAX for 8 years as product marketing manager until recently moving into the sales management role. Before joining EDAX, Del worked for Philips Analytical (now Panalytical) in both the US and UK with roles in application, sales and product management. He grew and was educated in the UK. He is an avid sports fan and also finds time to play soccer, volleyball and golf.

DINNER LOCATION: John J. Sullivan's (Formerly Rapp's) 537 Wakelee Avenue, Ansonia, CT

COCKTAILS	5:00-6:30 PM
DINNER	7:00 PM
NY Sirloin, Stuffed Chicken, Baked Scrod	\$25.00
Retirees	\$20.00
Full-time Students	\$10.00
Presentation	7:30 PM

FIRM RESERVATIONS MUST BE RECEIVED ON OR BEFORE Monday, February 16, 2009.

Members unable to attend the dinner are cordially invited to attend the presentation at 7:30 pm.

Telephone reservations with meal choice to Ron Caron at 203-488-9931

Email: rcaron43@msn.com