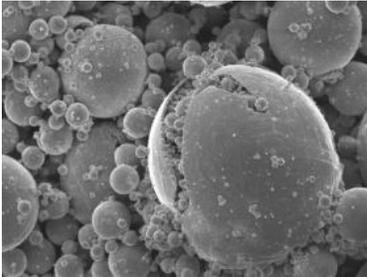




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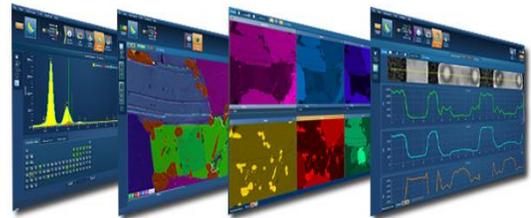
PRESS RELEASE – (5/13/13)

**PITTSBURGH PA** – ITLS is proud to announce the addition of acquiring a TESCAN VEGA 3 Scanning Electron Microscope (SEM) with Energy Dispersive X-Ray Spectroscopy (EDS) capabilities.



A scanning electron microscope (SEM) is a type of electron microscope that produces images of a sample by scanning it with a focused beam of electrons. The electrons interact with the electrons in the sample, producing signals that can be detected and that contain information about the sample's surface topography and composition.

Energy-dispersive X-ray spectroscopy (EDS, EDX, or XEDS) is an analytical technique used for the elemental analysis or chemical characterization of a sample. It relies on examining an interaction of X-ray excitation to a sample. EDS works in large part to the principle that each element has a unique atomic structure allowing unique set of peaks on its X-ray spectrum. To quicken the emission of X-rays from a specimen, a high-energy beam of charged particles such as electrons or protons, or a beam of X-rays, is focused into the sample being studied.



The TESCAN VEGA 3 XMU SEM, with an Oxford EDS system (including AztecEnergy software) broadens our existing conventional chemical analysis capabilities, e.g., (GDS – OES; LECO Combustion (C,S,N,O,H), XRF), into a forensic “one-stop shop”. When announcing the acquisition of this equipment Mr. A.M. Wenzig Jr., President of ITLS said; ...”Besides supporting our major defense and commercial nuclear customers in their analysis efforts; we’ve improved on supporting the forensic examination, legal, and insurance investigation customer base”.

Because of the growth of our departments, we are opening an additional facility. The chemical analysis and scanning electron microscope facility will be located at 640 Alpha Drive in Pittsburgh (across the street from our main laboratory). This is the third building identified within the ITLS “Campus”, location in the RIDC Park in Blawnox, PA.

