



April 15th, 2008

## X-ray Detectors at Worldwide

### NEWSLETTER

#### 2008 /2009 CONFERENCES

April 7-10, 2008  
[2008 NREP Conference](#)  
Las Vegas, NV

June 8-12, 2008  
[American Nuclear Society](#)  
Anaheim, CA

July 13-17 2008  
[Health Physics Society](#)  
Pittsburgh, PA

August 10-14 2008  
[SPIE Optics + Photonics](#)  
San Diego, CA

Jan. 31 - Feb. 3, 2009  
[HPS Mid-Year](#)  
San Antonio, TX

March 8-12, 2009  
[Smart Structures & Materials](#)  
San Diego, CA

#### VICE PRESIDENT OF ENGINEERING

Greg Nelson has been named Vice President of Engineering at Princeton Gamma Tech Instruments. Greg has been with the company for over 10 years and continues to bring energy and creativity to the team. Recent success includes a pulse processor design, integration firmware for a network of detector systems, and a state-of-the-art X-Ray spectroscopy design. Greg's holds an BS from Princeton University and a MSEE from Carnegie Mellon.

PGT is pleased to announce the delivery of a large area Si(Li) detector, 60 mm square active area, for light element detection with a low energy range to below Carbon at 277 eV. This system was delivered to the [BESSY synchrotron](#) in Berlin. This detector will have the capability of being baked out in-situ, since the device includes a long retraction UHV vacuum interface.

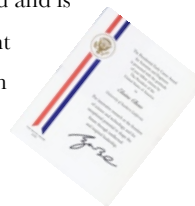


Earlier this year PGT delivered a [germanium detector](#) for higher energy work at the ANKA synchrotron in Karlsruhe. These detectors are follow-up to our installation at the ESRF of a light element germanium array with detection to below the 277 eV Carbon line as well.

#### US DOE Award

PGT has been awarded and is

scheduling delivery of a light element capable germanium array to the [NSLS in Brookhaven](#) later this spring.



PGT is the world leader in the fabrication of light element x-ray detectors for use at synchrotrons and other research facilities worldwide. Our long experience with polymer windows, low noise FETs and high rate, low noise preamplifiers allows us to be confident in stating that PGT offers the broadest array of X-ray spectroscopy detectors available from any single manufacturer.

\*\*\* Please be on the lookout for our new pulse processors with Si(Li), germanium and SDD compatibility due out later this year.

#### ANKA Users Meeting

Our colleagues in Germany invite you to the 7th users meeting of the synchrotron radiation source [ANKA at the Karlsruhe Research Centre](#).



It will take place October 9-10, 2008.

During two days, the machine, the beamlines, access routes for academic users and our full service offer for industrial customers will be presented. Scientists will report on their findings in various fields of research. Further details and online registration forms will be following soon.

#### NSLS Phase II



The NSLS Expansion began in 1986, expanding the NSLS by 52,000 square feet and adding much needed offices, laboratories and room for new experimental equipment. Within the facility, electrons are accelerated almost to the speed of light and fly in a closed orbit inside a stainless steel tube around a 35 m diameter circuit. Large electromagnets are positioned at regular intervals along this so-called storage ring, to guide the electrons around the curves and keep them focused in the center of the tube.