GOMACTech 2007 Technical Session Proposal and Information Form

Session Title:	Critical Nuclear Detection Sensor Technologies for Homeland Security
Session Abstract (250 words):	Combating Weapons of Mass Destruction (CbtWMD) on the homeland and worldwide is the primary driver to fully exploit and develop enabling technologies for deploying active and passive radiation sensors. These potential low cost, multi-function sensors need to have the versatility to adapt to the cargo transportation arena and obtain a detailed understanding of the underlying problems limiting the performance of such devices. Despite current material constraints, new improve techniques have been developed to overcome the growth of crystals being used in next-generation devices. This session will summarize the material factors limiting the performance of solid-state detectors and scintillators and discuss ways to overcome the challenges through appropriate corrective actions. Active interrogation and passive radiation sensing technologies will be discussed.

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	Invited Paper Title	**Author**	**Affiliation**
1	Development of Room-Temperature Semiconductor Gamma-Ray Spectrometers	Zhong He, PhD. hezhong@umich.edu	University of Michigan
2	Develop Inexpensive Gamma Ray Detector Device	Douglas McGregor, PhD. mcgregor@ksu.edu	Kansas State University
3	Novel Large Area High Resolution Neutron Detector for the Spallation Neutron Source	Jeff Lacy, PhD. jlacy@proportionaltech.com	Proportional Technologies, Inc.
4	TBD		

Paper tiles are not final at this time.
Other Possible papers:

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TBD.