



# PIEAS Colloquium



## Detection and Characterization of Fission Neutrons with Organic Liquid Scintillators

**Speaker: Dr Syed Fahad Naeem**

**on**

**Thursday, January 29, 2015**

**At**

**14:00 hrs**

**In**

**Conference Room, C-Block, PIEAS**

**All are cordially invited**

*Specially the students and faculty of the*

- *Departments of Nuclear Engineering*
- *Department of Physics and Applied Mathematics*
- *Department of Computer and Information Sciences*

**Contact persons:**

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*Dr. Syed Fahad Naeem did BS in computer sciences from the University of Houston, USA, MS and PhD in Applied Physics from the Idaho State University, USA.*

*Dr. Naeem worked as a Postdoctoral Fellow in the Department of Nuclear Engineering and Radiological Sciences at the University of Michigan.*

*He was involved in experimental and analytical research of liquid scintillators using Geant4 and MCNPX-PoliMi Monte Carlo simulation codes.*

*During his graduate research, he developed interests in Monte Carlo simulations and experimental research projects particularly in non-destructive elemental analysis using particle accelerators. He was part of Laser ComptoScattering (LCS) research group at the Idaho Accelerator Center. While at the Idaho Accelerator Center, he and his colleagues utilized tunable and quasi-monochromatic LCS x-rays for quantifying the concentration of uranium in the surrogate of spent nuclear fuel.*

*His research interests include Monte Carlo simulations, radiation detectors, instrumentation, particle accelerator applications.*