**Physics Seminar**

**Marcel Demarteau**

**Argonne National Laboratory**

*“Status of the Large-Area Pico-second Photodetector Project”*

Abstract

The Large Area Picosecond Photo-Detector Collaboration (LAPPD) is developing a large-area, modular photo-detector system composed of thin, planar, glass-body modules, each with two 20cm x 20cm ALD-functionalized MCPs in a chevron geometry.  The collaboration is working closely with industry partner Incom inc., towards the commercialization of this technology.   Incom is currently designing a full-scale system for construction in their production facility and Argonne is supporting that effort with testing and vetting of fabrication techniques, testing and characterization of MCPs and bench testing of initial complete detectors. As an intermediate step towards building a full system for making 20cm x 20cm devices, Argonne has developed a small form-factor (6cm x 6cm) photodetector production facility. Successful sealing of the 6cm x 6cm photodetector prototypes at the Argonne small tile facility has been accomplished in the sealing chamber.  All components of the entire system have been exercised and photodetector fabrication is imminent. The status of both efforts will be presented.

**Friday, April 4, 2014**

**11:00 am**

**CEBAF Auditorium**