



# **Old Dominion University**

## **Department of Physics**

### **Colloquium**

**Tuesday, July 14, 2015**

**"Accelerator Research at Uppsala University"**

**Dr. Roger Ruber**  
**Uppsala University, Sweden**

Accelerators for fundamental research have been operated at Uppsala University since the 1940s and the Gustav Werner cyclotron will run until the end of this year. In addition, Uppsala University has an active accelerator physics program participating in national and international projects at CERN, DESY and ESS. At CERN we built the Two-beam Test Stand at CERN in the framework of the CLIC development program. At the XFEL in Hamburg we designed and built the Laser heater as a Swedish in-kind project. The FREIA Laboratory (Facility for Research Instrumentation and Accelerator Development) was inaugurated in June 2013 for the development of the radio-frequency power sources and accelerating cavities for the European Spallation Source (ESS). For the future, we study opportunities to construct a small (THz) FEL in Uppsala. I will give an overview of these projects.

Presentation: **CAS @ 1:30 pm**  
Refreshments: **CAS @ 1:00 pm**

**All interested persons are cordially invited to attend.**