

# CAPTAIN Report – FY17 Q3

## 1. **Preparation for Second Neutron Run Continues**

The collaboration continues to work on preparations for the neutron run in July 2017 with the Mini-CAPTAIN detector. All Mini-CAPTAIN systems have been installed in the LANSCE WNR 15-R beamline. A number of commissioning tasks have been completed and the cryostat was filled with liquid argon in June. The new Criotec internal filtration system is performing to its specifications and reduced the oxygen levels in the full detector by a factor of 40 in just three days of operation. The electronics and data acquisition system continue to be exercised in preparation of the July 11<sup>th</sup> beam start. The IWD for operations was approved in May after several walkdowns by SME and pressure safety officers. The experiment was also part of the 15-R safety review since it was present in the beamline during June's walkdown. The experiment has been approved for 17 days of beam including 10 hours of low rate neutrons.

## 2. **Collaboration Preparations for Next Step**

The collaboration has also begun planning an analysis and collaboration meeting to be held in September or October 2017. The meeting will focus on results from the neutron running with Mini-CAPTAIN and continued planning for the use of the full CAPTAIN experiment at Oak Ridge's SNS facility. Discussion with ORNL continue.