

# APS Scientific Computation Seminar Series

Speaker: Katherine Riley  
Director of Science, Argonne Leadership Computing Facility

Title: What Prevents You from Using Leadership-Scale Computing?

Date: Monday, February 15, 2016

Time: 1:00 p.m.

Location: 401/A1100

Hosts: Nicholas Schwarz and Brian Toby

## Abstract:

High performance computing has transformed how a lot of science and engineering research is conducted. Answering a question in 30 minutes that used to take 6 months can quickly change the way one asks questions! Large computing facilities, like the ALCF, provide access to some of the largest computing, data, and network resources in the world. Indeed, the DOE complex has the highest concentration of supercomputing capability in the world. However, by nature of their existence, making use of the largest computers in the world can be a challenging and unique task.

This talk will discuss how projects can begin using the LCRC and ASCR computing resources. A statement to the computing facilities is often “I would use the facilities if only X.” We are always asking for that X. Importantly, I will try to give you some of the logic for why the environment is what it is today, discuss how the DOE computing facilities are working on the larger ecosystems, and show how we are evolving for new use cases.