Workshop: Partnership for Integration of Computation into Undergraduate Physics (PICUP) NORMAN CHONACKY, Yale University, MARIE LOPEZ, University of St. Thomas — The PICUP conducts NSF sponsored projects to support physics faculty integrating computational thinking and practice into their courses. The project at this meeting – Fostering Local Computational Communities – introduces a strategy and tactics for quickening the integration process for faculty affiliated with one another locally, *e.g.* AAPT section colleagues. Our strategy ties computational physics ideas to existing physics course content, endeavoring to economize faculty time investment and minimize disruption to their current instruction. We call this "lowering barriers to computational integration." Our tactics introduce faculty to newly developed resources such as exemplary exercises to adopt or adapt according to their instincts and ingenuity for using computation in courses they already teach. They also help faculty build a collaborative environment within the locale to stimulate and support their efforts to include computational methods into all their courses. Such methods are important because they already have transformed professional physics, science, and engineering practice. We invite you to take advantage of this opportunity to enlarge your vision and possibly commit yourself to integrating computation. Please consider attending this sectional meeting and participating with us. Your future students will thank you.

Thomas O'Kuma
Lee College

Date submitted: 21 Feb 2017   Electronic form version 1.4