Applying New Faculty Workshop Lessons Learned to Intermediate-Level Physics Courses

MELISSA EBLEN-ZAYAS, Carleton College — Although much innovative work on physics teaching techniques and curriculum has been carried out at the level introductory physics, there has been less focus on the intermediate-level physics courses. Since my participation in the new faculty workshop, I have been particularly interested in finding ways to implement peer instruction and other active learning strategies in sophomore and junior level physics classes. Many curricular resources are available for introductory physics, but finding appropriate materials for courses beyond the introductory level is more challenging. I will discuss the use of comPADRE resources as well efforts to develop original activities to promote active learning and conceptual understanding, and I will highlight the successes and challenges of integrating these types of activities in intermediate-level physics courses.

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