CRMSE Colloquium Announcement

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Following Student Thinking in a Physics Course for Prospective Elementary Teachers that Aligns with the Next Generation Science Standards

Friday, April 10, 2015
1:00-2:00 pm
6475 Alvarado Road, Room 128

RSVP: https://crmse.wufoo.com/forms/crmse-colloquia/ or Karen Foehl Palmer, kfoehl@mail.sdsu.edu

Abstract: Next Generation Physics and Everyday Thinking is a set of curriculum materials that align with the spirit and substance of the Next Generation Science Standards. The curriculum is intended for use in a variety of courses or workshops (science or science methods course for pre-service elementary teachers, general education science course, or workshop for in-service teachers), and for use in either small class or large class, lecture style, learning environments. The pedagogical structure of Next Gen PET is based on design principles from research on the teaching and learning of science and provides multiple opportunities for students to articulate their ideas and reasoning. This semester we are videotaping a local implementation of the curriculum in a classroom with over 80 students. In this talk I will briefly review the research-based design principles, show classroom video clips that will allow the audience to follow students’ thinking (in both small groups and the whole class) as they develop a robust model to explain magnetism phenomena, and engage the audience in a conversation about the connections between the pedagogical structure of the curriculum, the design principles and the Next Generation Science Standards.