

Abstract Submitted  
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**Misconceptions in Physical Science at the Middle School Grades**  
ZENOBIA LOJEWSKA, ROBERT BARKMAN, PETER POLITO, JULIANNE SMIST, Springfield College, RICHARD KONICEK-MORAN, Retired, SPRINGFIELD COLLEGE TEAM — The presentation will focus on the physical science content and pedagogy workshops addressing student's misconceptions at the middle school level. These workshops were conducted at Springfield College during summer 2010 for in-service teachers from Springfield MA Public Schools. A partnership among Springfield MA Public Schools, Springfield College, and the City of Springfield Science Museum was developed to implement an innovative program to prepare highly-qualified educators. Concepts of force, motion, energy, and energy transformation were explored in a physics laboratory setting and student's misconceptions were addressed.

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