

Abstract Submitted  
for the OSF19 Meeting of  
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**Research-based Resources for Teaching Introductory Physics in an Earth & Space Science Context** BRADLEY AMBROSE, Grand Valley State University — In this workshop participants will learn firsthand about research-based instructional materials that present introductory-level physics concepts using space science content and authentic data. These materials feature guided-inquiry tutorials being developed with support by the NASA Space Science Education Consortium. The materials integrate physics, earth science, and space science using topics such as sunspot cycles (periodic behavior), coronal mass ejections (kinematics, special relativity), auroral currents (electromagnetism), and habitable zone (blackbody radiation). The workshop presenter (BA) is a member of the development team of physics and astronomy education researchers funded by a NASA-SSEC Grant awarded to Temple University and AAPT.

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