

References and Links from Physics Education for TPSE Panel

Physics Education Research

National Research Council (2012), *Discipline-Based Education Research : Understanding and Improving Learning in Undergraduate Science and Engineering*, The National Academies Press, Washington, DC.

Engaging Departments to Enhance Undergraduate Physics Programs

Strategic Programs for Innovations in Undergraduate Physics (SPIN-UP)

<http://www.aapt.org/Programs/projects/ntfup.cfm>

Robert Hilborn and Ruth Howes, “Why Many Undergraduate Physics Programs are Good, But Few Are Great,” *Physics Today* **56** (9), 38-44 (2003)

Build a community of practice of colleagues who value and respect good teaching:

Physics and Astronomy New and Experienced Faculty Workshops and Two-Year College New Faculty Program

<http://www.aapt.org/Conferences/newfaculty/>

Similar efforts in other STEM disciplines

“The Role of Scientific Societies in STEM Faculty Workshops”

http://www.aapt.org/Conferences/newfaculty/upload/STEM_REPORT-2.pdf

Research on how faculty members adopt and implement interactive engagement teaching practices

Melissa Dancy and Charles Henderson, “Pedagogical practices and instructional change of physics faculty,” *American Journal of Physics* **78**, 1056 (2010)

Portal for peer-recommended teaching resources and assessment tools:

<http://Physport.org>

What employers value and how to prepare students for diverse careers:

AAPT/APS Joint Task Force on Undergraduate Physics Programs

<http://www.compadre.org/jtupp/>

Physics Teaching Education Coalition (PhysTEC)

<http://www.phystec.org/>