

Abstract Submitted  
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**Research-based assessment resources to improve teaching in your classroom and department**<sup>1</sup> SARAH MCKAGAN, ADRIAN MADSEN, American Association of Physics Teachers, ELEANOR SAYRE, Kansas State University — Often physics faculty want to know how their students are doing compared to other “students like mine.” As part of the PER User’s Guide (<http://perusersguide.org>), we are developing a national database of research validated assessment results and an accompanying data explorer. Here faculty can securely upload their students’ anonymized assessment results and compare them to students from peer institutions and the national dataset, view a question-by-question breakdown and compare results over time. “One-click analysis” allows faculty members to visualize their data, view statistics and download a report of the results. Results can be used to improve teaching, to make a case for more resources, for accreditation reports, or for promotion and tenure. Additionally, we are developing guides to these research validated assessments and access to the tests themselves. We will showcase our new online system and provide information about how you can use it.

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