Trends in physics teacher education from the perspective of research-based instruction

1 DAVID E. MELTZER, Arizona State University — I will review historical trends in the education of U.S. physics teachers from the perspective of key research findings on physics teacher education. Research evidence suggests that instruction focused on students’ physics ideas, on physicists’ practices, and on designing and teaching hands-on laboratory investigations has been relatively successful in preparing physics teachers for the classroom. However, such evidence-based instruction has been largely lacking from the background of most physics teachers in the U.S.

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