

Abstract Submitted
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More and Better Prepared Teachers, More and Better Prepared Majors GAY STEWART, University of Arkansas, Fayetteville, COLLEGE READY IN MATH AND PHYSICS PARTNERSHIP COLLABORATION, PHYSTECH, APLU SMTI COLLABORATION — A more scientifically literate society benefits physics as a profession. It is best realized by better serving all undergraduate physics students. Arguably, the most important are future K-12 teachers. In better serving all students, the department also benefits. University of Arkansas, Fayetteville has seen a drastic change in number of majors, the number of students active in research and the number of graduates pursuing graduate work while also increasing the number of majors who decide to teach. Building these numbers and strengthening these resources at Arkansas began with an NSF course revision project, grew as we became primary program institution in the Physics Teacher Education Coalition (www.PTEC.org), received a Noyce Scholarship grant, and now continues in our building of an NSF Math Science Partnership utilizing our experiences coupled with PTRAs materials, and expanding our efforts to Mathematics. Through APLU's SMTI, we are making changes in chemistry as well. These efforts will be discussed, with additional information on PTEC which is bringing together innovative ideas and practices throughout the country to help meet the critical shortage of well prepared and actively supported teachers.

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