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**Elementary teacher education and teacher efficacy toward mathematics and science.**

Novotná, Jarmila (ed.) et al., Mathematics in the centre. Proceedings of the 30th annual conference of the International Group for the Psychology of Mathematics Education, PME, Prague, Czech Republic, July 16–21, 2006. Vol. 1-5. Prague: Charles University, Faculty of Education. Part 5, 417-424 (2006).

Summary: Elementary teacher education in Taiwan has been facing the dilemma of cultivating prospective teachers to be generalists or specialists for certain subject areas since 1997. Referring to the significant factors affecting teacher education, “teacher efficacy” deserves to be in the heart of this dilemmatic evolution. This study aimed to compare prospective teachers’ efficacy toward mathematics and science of ten preparation programs. Findings indicated that the more subject-matter preparations the superior efficacy was established. It further provided a deliberation on how to prepare elementary teachers.

*Classification:* B50

*Keywords:* preservice teacher education; elementary teacher education; Taiwan; educational research; reform