

1046-R1-1476

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Connecting Higher Education Mathematics Faculty to K-12 Mathematics Teachers.

The authors will describe three different programs they are apart of and assist in coordinating on their campus that links higher education mathematics faculty together with K-12 mathematics teachers in their area.

The first connection is the "Math Model Academy". The Academy is a weekend retreat which brings together teachers from all grade levels to discuss, present, and showcase issues affecting mathematics education. Past issues have involved using different forms of technology to teach, algebra across the grade levels, and preparation of mathematics students for life at college.

Our second connection is a set of ESEA summer courses taught by higher education faculty to K-12 math teachers. One of the authors will discuss his two-year involvement in the program through teaching a course on effective ways to use technology to teach mathematics.

Our third connection is a SoTL project, Infusing K-12 Exemplars in Content Courses for Teachers, which invites higher education faculty to collaborate with K-12 math teachers as consultants. The K-12 teachers provide content teaching knowledge exemplars for adaptation, discussion, and use in mathematics content courses geared toward pre-service mathematics teachers. (Received September 15, 2008)