

## **The PHOTON2 Web-Based Professional Development Model: A Year in Review Summary:**

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In this paper, we present preliminary results from project PHOTON2, a National Science Foundation Advanced Technology Education (ATE) project aimed at increasing the number of high school teachers and college faculty across the US prepared to teach photonics technology at their own institutions. During the Fall 2004 and Spring 2005 semesters, 51 high school teachers and college faculty from 12 states across the US participated in a web-based *Introduction to Optics & Photonics* course. Qualitative and quantitative research was conducted to examine the relationship between learner interaction, self-regulation, and learning outcomes in a web-based learning environment. Research results and recommendations are presented.