

PROYECTO CIBER@PRENDIZ

APLICACIONES DE INTERNET PARA EL APRENDIZAJE EDUCATIVO

Ciber@prendiz: Aplicaciones de la Internet para el Aprendizaje Educativo (AIAE) is a curriculum and technology based teacher professional development pilot project that focuses on preparing educators and administrators from Costa Rica, Ecuador, and Perú in the use of *Unique and Compelling* educational applications of the Internet in their classrooms and the integration of these resources into their existing local curricula. In just over a year of operation, 36 science and math teachers from six schools (six per school) and six principals have participated in three intensive week-long training sessions totaling over 120 hours of professional development and each teacher has completed an additional 360 hours of classroom implementation to impact a total of 4,000+ students.



Through the use of these Internet-based educational applications, students learned how to use technology to apply real world learning to solve authentic problems. In each of the countries, many students who had never touched a computer before actively participated in robust online



collaborative projects by testing water quality and then comparing their results with other students from around the world. Students also accessed and downloaded real-time earthquake data directly from the Internet to investigate plate tectonics and used live-web cams and satellite images to study weather phenomena from around the world. In addition to these activities, teachers and students participated in local and regional conferences and presented their work to other schools and local government officials, parent groups made significant contributions, and meetings were held with high-level government officials including ministers of education and a former president as well as the current vice-president of Ecuador.

These Internet-based applications and corresponding pedagogical methodologies that form the foundation of the project are based on the experience and materials developed by the Center for Improved Engineering and Science Education (CIESE) at Stevens Institute of Technology and were presented in collaboration with Miami Dade Community College.

To coordinate and support the implementation of the project on a national level and create the foundation necessary for a larger-scale program, strategic partnerships were established with the following universities and institutions in each of the participating countries: the Fundación Omar Dengo in Costa Rica, the Escuela Superior Politécnica del Litoral (ESPOL) in Ecuador, and the Universidad San Pablo in Perú.

The Center for Children & Technology (CCT), a division of the Education Development Center, Inc. (EDC), serves as the external evaluator, and SchoolsOnline, a non-profit organization based in San José, California provided each classroom with desktop computers and other equipment such as printers, digital cameras, etc. Additionally, each of the participating schools contributed their respective Internet connectivity costs and other incidentals such as security bars for the classroom. For more information, please visit <http://www.ciberaprendiz.org> or contact:



Dr. Edward A. Friedman, Director
Center for Improved Engineering & Science Education
Stevens Institute of Technology
Castle Point on Hudson, Hoboken, NJ 07030
Phone: (201) 216-5188 Fax: (201) 216-8069
E-mail: friedman@stevens.edu