Advancing Precollege Science and Mathematics Education in San Diego County

D.P. SCHISSEL, DIII-D EDUCATION OUTREACH TEAM, General Atomics — The existing educational tour that was created by GA’s Fusion Group has been enhanced this past year by an additional DIII-D tour station focusing on Radiation, Radioactivity, and Risk Assessment which includes “hands-on” demonstrations and environmental radiation risks. Additionally, with the assistance of local area science teachers, a new Electromagnetic Spectrum Curriculum was developed, field-test, and assessed, with activities, demonstrations, and experiments to be used in science classes. Included were curriculum, workbook, and resource boxes supporting the curriculum with items not easily accessible to classrooms. A videotape “Fusion, Nature’s Fundamental Energy Source,” was produced and incorporates animations giving an overview of fusion to be utilized as a tool for teachers in the classroom. A fusion poster was designed for high school classrooms to entice student inquiries, includes information about our fusion educational WWW site, and an e-mail address for science questions to the “Wizard,” which will be answered by scientists/engineers from General Atomics’ Fusion Group. These enhancements and planned projects will be presented.

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