

1046-S1-482 **Despina Prapavessi*** (dprapave@dvc.edu), **Karen Edwards** and **C. Samuel Needham**.
Calculus Field Trips.

This talk will present the Calculus Field Trips Project under way at Diablo Valley College (DVC) which infuses examples of everyday applications of calculus into the standard calculus curriculum guided by various science and engineering professionals. Funded by NSF-DUE (CCLI- 0633289), faculty are organizing 14 class field trips every semester to local engineering firms, state and federal agencies and research labs in the area. Typically, a class of about 25 students and their instructor visit a company for a one hour presentation from a scientist or engineer on how Calculus is relevant in their work. Alternatively, speakers give presentations at the DVC campus or deliver content in a web conference format. Following the field trip students complete a collaborative project with classmates based on the scientific application they learned about. These activities help students make the connection between the classroom and workplaces in their local community, thus developing a focus and purpose for their academic studies. Moreover, partnerships are built between the faculty and their scientific or engineering counterparts in industry. (Received September 04, 2008)