

## **MICROSCALE EMISSIONS MODELING SYSTEM**

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### **ABSTRACT**

Cal Poly is developing a Microscale Emissions Modeling System for the California Air Resources Board. This system will be used as a tool to allow better understanding of vehicle emissions on a roadway segment basis. A computer van is being configured for real-time analysis of vehicles on California roadways. A license plate reader and an array of laser rangefinders mounted on an elevated mast will provide vehicle identification, speed, and acceleration. Vehicle data collected will be linked to a database of all California vehicles and emissions then inventoried. All emissions estimates are based on Air Resources Board dynamometer testing of California vehicles.