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Charles R. Hadlock* (chadlock@bentley.edu), Bentley College, Mathematical Sciences Department, Waltham, MA 02452. *Hazardous materials modeling and other opportunities for student applied mathematics projects.*

The modeling of hazardous materials incidents is a well developed blend of applied mathematics, science, and engineering. It presents numerous opportunities for students to pursue modeling issues from basic principles to real life applications by government agencies and companies. This talk will give an overview of this field based on the author's consulting experience with emergency services, regulatory agencies, and operating companies in many parts of the world. The mathematical levels involved in different aspects of these problems will be discussed, and examples will be given of student group projects that have had real benefit in the community. (Received September 26, 2006)