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**Peter R Turner\*** (pturner@clarkson.edu). *Applied Mathematics Outreach to Middle and High Schools: Opportunities and Resources.*

This introductory talk will provide an overview of some of the ways in which applied mathematics and modeling content can be incorporated into middle and high school programs. The use of contests has proved a valuable motivator. Some of these contests and their effect on student performance will be presented. With the increased flexibility in mathematics curricula under the proposed common core standards, the inclusion of modeling and applications will be of growing importance in the next few years. Other resources and SIAM's potential role in developing appropriate content for students and their teachers will also be described. (Received August 19, 2011)