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Robert E. Wieman* (rwieman@vsu.edu), Department of Mathematics & Computer Science,
P.O. Box 9068, Virginia State University, Petersburg, VA 23806. *Refocused Algebra versus POGIL:
Chemistry's Solution and What Mathematics can Derive from it.*

POGIL (Process Oriented Guided Inquiry Learning, www.pogil.org) is a pedagogical approach based on small self-managed student groups working on guided inquiry projects. The approach was developed by chemistry professors, and is known and applied primarily in that field.

The MAA/CUPM Subcommittee On Curriculum Renewal Across The First Two Years (CRAFTY) has recommended College Algebra Guidelines which include “providing student-centered, activity-based instruction, including small group activities and projects”. To encourage this refocusing of introductory college mathematics courses, Don Small has written *Contemporary College Algebra*, a textbook including many projects for small student groups.

We evaluate the structure and principles of POGIL projects, with the aim of borrowing and customizing features of POGIL so that they can be applied to a refocused college algebra course. We focus on POGIL’s explicit team structure and emphasis on process skills such as leadership, conflict resolution, and time management, because these may offer solutions to some of the common difficulties encountered in team-based learning environments. (Received September 16, 2008)