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Linda McGuire* (lmcguire@muhlenberg.edu), Department of Mathematical Sciences, Muhlenberg College, Allentown, PA 18104. *Student Problem Writing Exercises Used to Enhance and Develop Mathematical Exposition*. Preliminary report.

The series of assignments that I would like to share in this session has been designed to assist students in learning crucial skills regarding the reading, analysis, and presentation of information found in journal articles.

Students work in groups of 3 to 4 on these projects. They are given articles (primarily in combinatorics and graph theory) to read and discuss that present the underlying mathematics in certain games and puzzles. Groups would share their analyses with the class in the form of an extended oral presentation. Another component of their project was producing a related problem set based upon their paper for their contemporaries to work on in class. This aspect of the assignment required that students do a great deal of careful mathematical writing to ensure that their classmates were sufficiently informed so that they might work on the problem sets the group designed. The results were well thought out and exhibited solid technique.

I would construct my presentation to highlight the papers given, to show several samples of student work, and to share with the audience the positive evidence that these assignments helped students to improve their individual skills with regard to technical reading and problem-solving. (Received September 11, 2006)