



The Mathematical Association of America

**Math Department Colloquium/
Math Club/MAA Student Chapter presents**

**A short (15 min.) talk entitled “Beaucoup de Sudoku” by
Mike Krebs (CSULA)**

. . . followed by . . .

Department Tea

Wednesday, Apr. 4, 2007

3 – 4 pm, Simpson Tower 213

Refreshments 2:30 - 3

Abstract of talk: Sudoku is the latest pencil-and-paper craze; it also provides many excellent illustrations of concepts from undergraduate abstract algebra. Students may well find that applying recently-learned methods to a familiar, concrete example brings the theory to life. For instance: Given a completed Sudoku grid, there are some easy ways to create a new Sudoku grid from it, by, say, switching the top two rows, or rotating the grid ninety degrees. The set of all such actions forms a group G . Can we find some familiar group that it is isomorphic to? The action of G on the set of all Sudokus gives us a notion of "equivalent" Sudokus. Are all Sudokus equivalent?

Abstract of tea: We will eat cookies and drink tea.

For more information, contact Mike “Quimby” Krebs at mkrebs@calstatela.edu or Tony Shaheen at ashahee@calstatela.edu.

Math Club website: http://www.calstatela.edu/academic/math/Math_Club/mathClub.htm

Upcoming events:

4/11	P. K. Subramanian (CSULA)	Leibnitz's theorem on successive differentiation
4/18	Shahriar Shahriari (Pomona College)	Topic TBA
5/2	Liana Dawson (UCSB) Alethea Barbaro (UCSB)	Topics TBA
5/23	Tony Shaheen (CSULA)	Ramanujan graphs and zeta functions of graphs

