

## Department of Mathematics at the University of Utah

is excited to offer the following professional development opportunities  
for mathematics teachers in our state

### Topics in Number and Operation for Middle School Teachers

**June 30-August 6    Tuesday, Wednesday, Thursday    2:45 to 4:45    3 credits**

Highly Recommended for Teachers of Middle School: Focus on a conceptual framework for mathematics, the real number system from a mature perspective, and the concepts of number and operation. The participants will be provided all course materials including the textbook: Thomas H. Parker & Scott J. Baldrige, *Elementary Mathematics for Teachers* and several Singapore textbooks which accompany the text.

Level 3 and 4 teachers will be paid \$200 for successful completion of the course. This course fulfills the Mathematics for Elementary Teachers I requirement for the Level 2 endorsement.

This course will be taught at the University of Utah. Contact: Marilyn Keir [keir@math.utah.edu](mailto:keir@math.utah.edu) or visit <http://www.schools.utah.gov/curr/math/sec/ProfDev.htm> and apply at [http://www.math.utah.edu/mathed/courses/reg\\_form.html](http://www.math.utah.edu/mathed/courses/reg_form.html)

### Utah Teachers' Math Circle

Year round, once a month, check schedule at

<http://www.math.utah.edu/teacherscircle/schedule.html>

The University of Utah Teachers' Math Circle is an exciting new program devoted to broadening the mathematical horizons of middle and high school math teachers and specialists. Based partly on a model developed at the American Institute of Mathematics, the focus will be on open-ended explorations of mathematical techniques and problems, with a view toward potential applications in the classroom. The topics covered will be carefully selected for their mathematical depth, but also for their accessibility. In particular, no mathematical prerequisites are necessary. Teachers may qualify for cactus credit if they attend the meetings regularly.

The Teachers' Math Circle meets regularly during the academic year, and is complemented by a week-long summer workshop (see below). To apply go to: <http://www.math.utah.edu/teacherscircle/application.html>

## Summer Workshop for Mathematics Teachers: Where do the numbers take us?

**August 3 - August 7**                      **8:30 am – 5:00 pm**

If you are a teacher and would like to spend some time with other teachers, mathematicians and mathematics educators talking about mathematics and other topics relevant to your profession we encourage you to apply to our program. We promise an intellectually stimulating, friendly and engaging atmosphere filled with challenging problems both mathematically and pedagogically.

8:30-9:00 Breakfast with colleagues

9:00-12:00 Teachers' Circle - part of the day devoted exclusively to mathematics.

1:00-2:30 Discussion of methods for and practice of teaching or Seminars -- Mathematics and Mathematics Education

2:30-3:00 Show and tell: Teachers will present their favorite lessons (technology, investigations, etc.)

3:00-3:30 Tea

3:30-5:00 Lesson plan study: we will break into three groups according to grade level and/or topic of interest. The outcomes of these discussions will be shared with all groups on the last day of the workshop.

Evening Dinner and social hour or free

If you are not from Salt Lake City, board and room will be provided to you at no cost. Please apply at [http://www.math.utah.edu/mathed/summerworkshop09/app\\_form.html](http://www.math.utah.edu/mathed/summerworkshop09/app_form.html)