



## SUMMER 2006 SPECIAL COURSE OFFERINGS

PROM/SE is pleased to announce that nationally recognized mathematicians and mathematics educators will teach three academic courses as part of our summer program. These courses are open to all PROM/SE Associates and teachers from any of the five partner sites in Michigan and Ohio. Note that each of these three courses is being given for credit through Michigan State University. Non-credit participation is not available. Credit arrangements can be made through Becky Murthum (murthum@msu.edu).

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### Advanced Study of Whole Numbers and Fundamental Concept of Number

**2 credits**

**Instructor: Dr. Hung-Hsi Wu, Professor of Mathematics, University of California at Berkeley**

***Course description:*** This course will focus on developing the reasoning underlying the concept of a number, the standard algorithms, estimation, and place value of the decimal numeral system. Working in small groups, lectures, and daily homework assignments are an integral part of this course.



Dr. Wu is an internationally recognized expert in mathematics education and an outstanding teacher. This course will be offered July 31 – August 4, 2006 as part of the SMART Summer Mathematics Academy in Cleveland, Ohio. (Please note that this is a 5-day course.) This course is targeted for K–4 teachers; however it is appropriate for all K–6 teachers. Submit a PROM/SE Summer Mathematics Academy Registration Form to reserve a spot in this course.

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### Algebra for Middle School Teachers with Connections

**2 credits**

**Instructor: Dr. Paul Sally, Professor of Mathematics, University of Chicago**

***Course description:*** This course will treat linear equations in one and two variables with applications to problem solving. Next, we discuss quadratic equations in two variables, especially circles and parabolas. We will also cover linear and quadratic inequalities with applications. Word problems, from simple to difficult, will appear everywhere.



Dr. Sally was the first director of the University of Chicago School Mathematics Project and has received several distinguished service awards. This course will be offered for teachers of grades 6–8, August 14 – 18, 2006, as part of the Michigan Summer Mathematics Academy in Holt, Michigan. (Please note that this is a 5-day course.) Submit a PROM/SE Summer Mathematics Academy Registration Form to reserve a spot in this course.

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### SME600~3 credits

#### Rational Numbers and Proportional Reasoning

**3 credits**

**Instructor: Dr. Glenda Lappan, University Distinguished Professor, Michigan State University**

***Course description:*** This course will focus on developing proportional reasoning, equivalence and models for rational numbers, conceptual underpinnings of algorithms, extensions to the real number system and linear functions, and properties of real numbers.



Dr. Lappan is an internationally recognized expert in mathematics education and co-director of the Connected Mathematics Project. This course will be offered July 5 – July 21, 2006, weekday mornings 8 – 11:15 am, at Michigan State University. This course is targeted for K – 8 teachers. Participants must enroll for MSU graduate credit and complete the MSU application process to enroll in this course. Download and complete an application form from <http://www.dsme.edu>; follow the links for >>Math Ed>> [Summer courses for Middle School Mathematics Teachers](#)>>.