



ONLINE



**TEACHERS
DEVELOPMENT GROUP**

A non-profit organization
dedicated to improving
all students' mathematical
understanding and achievement
through meaningful, effective
professional development

Using Real Data in the Middle & High School Math Classroom

ABOUT THIS ONLINE WORKSHOP

Technology tools and web-based materials provide important ways for math educators to meet local and national standards that emphasize problem solving and making connections between mathematics, other disciplines and the real world. This online workshop will enable middle and high school math teachers the opportunity to explore a range of web-based resources and exemplary projects, which utilize technology to support these goals. As a participant in this course, you will –

- learn how to find sources of real data on the web
 - explore technology tools that help students model, analyze, visualize and make sense of these data
 - develop a collection of resources and beginning project ideas that serve your curricular goals
- Readings, online discussion boards, engaging mathematical problems, and a relevant class project will support you in finding and using real data sets for your classroom.

PARTICIPANTS

Middle and high school math teachers, coaches, curriculum and professional development specialists, special educators, and instructional assistants. Participation by school/district teams is encouraged. To complement the online work, teams may wish to meet face-to-face to explore course math tasks and/or readings and assignments.

SITE

Online

INSTRUCTOR

FRED RECTANUS is an accomplished middle and high school mathematics teacher who provides professional development for teachers nationwide for Teachers Development Group. Fred was a member of the *Data and Chance* faculty for the highly successful Oregon Mathematics Leadership Institute, a 5-year National Science Foundation project to deepen K-12 teachers' knowledge of mathematics and school leadership.

DATES

July 8 – August 26, 2009

OPTIONAL UNIVERSITY CREDIT

Mth 810, Portland State University, 3 quarter-hours graduate credit. Pay \$165 for optional PSU credit at first institute session.

QUESTIONS

Contact Julie Fredericks
Email, julie.fredericks@teachersdg.org
Local Phone, 503-650-1914
Toll-free, 877-650-1914

COST AND REGISTRATION

\$300 per person if registration received on or before June 24, 2009.

\$350 per person for registrations received after June 24, 2009.

Register online, www.teachersdg.org, prior to July 8, 2009

Cancellations: If you must cancel, a substitute is welcomed. Otherwise, \$50 is nonrefundable; all additional payments are fully refundable prior to the workshop start date, non refundable thereafter.