

$$\dots P_n(x) = a_n(x - x_1)^{k_1}(x - x_2)^{k_2}\dots(x - x_s)^{k_s}\dots a_n x^n +$$

Beaverton School District

# Mathematics Research Forum

Featuring a distinguished panel of university-level mathematics educators and researchers

Parents, students, teachers, administrators, and the community are invited to attend the Mathematics Research Forum to learn more about the key questions related to research in mathematics education. The forum will also more fully inform decisions about mathematics curriculum and instruction in the Beaverton School District.

<b>Date:</b>	<b>Thursday, January 31, 2008</b>
<b>Time:</b>	<b>7:00 – 9:30 p.m.</b>
<b>Location:</b>	<b>Sunset High School Auditorium</b>

Moderated by:

Dr. Edith Gummer, Research Evaluation, NW Regional Education Lab

Panelists:

Bill Bogley, Barbara Edwards, Frank Goulard, Shlomo Libeskind, Hal Sadofsky

Hosted by:

Beaverton School District Mathematics Project Team



**District Goal:** Increase academic achievement district-wide with a special emphasis on literacy and mathematics gains for each student.

# Meet the Panelists ...

## **Bill Bogley**

Dr. Bogley holds a Ph.D. and Master's degree in mathematics from the University of Oregon, and a Bachelor's degree in mathematics from Dartmouth College. He is Professor of Mathematics and Associate Dean of the University Honors College at Oregon State University. As a research mathematician working in algebra and topology, Bogley has taught college-level mathematics for over 25 years, including undergraduate and honors courses, and graduate student supervision at the University of Oregon, Portland State University, Tufts University, Dartmouth College and Oregon State University. Bogley co-authored and taught what may have been the world's first fully developed online calculus course in 1996. He is the winner of multiple teaching awards at OSU and was named the first Eminent Professor of the University Honors College in 2001.

## **Barbara Edwards**

Dr. Edwards holds a Ph.D. from Penn State University and has been with the mathematics department at Oregon State University since 1997. One of her research interests is the teaching and learning of College Algebra which has course content similar to the traditional Algebra sequence in high school. Since 2005, she has been collecting and analyzing data for a National Science Foundation sponsored eleven-institution study of a curricular and pedagogical reform effort in College Algebra. Last year, she became involved in an effort to reform the College Algebra course at Oregon State University. She is active in the Mathematical Association of America. From 2000 to 2005, she was a member of the Oregon Mathematics Education Council (a group representing mathematics teachers K-16, administrators and members of the business community) and she is a member of the National Council of Teachers of Mathematics (NCTM) and Teachers of Teachers of Mathematics (TOTOM).

## **Frank Goulard**

Mr. Goulard holds a Master's degree in education from Oregon State University, a Bachelor's degree in statistics from Colorado State University, and a Bachelor's degree in education from Purdue University. He began his career in 1978 teaching K-8 math and physical education in Oregon. He has taught at Portland Community College since 1982, and in addition to his mathematics teaching duties has also been mathematics department chair since 1997. Frank's students at PCC represent a broad range of ages and abilities, many are Beaverton School District graduates. In 1995, Frank participated in PCC's math department team who undertook a five-year Title III federal grant researching methods to improve retention and success rates. Frank serves on the board of the Oregon Mathematics Association of Two-Year Colleges (ORMATYC) and is a past president. This group represents one of the critical links in Oregon's K-16 mathematics education system. Community colleges typically receive high school graduates and returning adults, and supply transfer students to universities for their final two years of study towards a bachelor's degree.

## **Shlomo Libeskind**

Dr. Libeskind holds a Ph.D., from the University of Wisconsin-Madison and earned Bachelor's and Master's degrees from the Technion-Israel Institute of Technology. He is a professor of mathematics at the University of Oregon specializing in mathematics education. His primary interest is the education of prospective high school and middle school teachers and the improvement of high school mathematics curriculum. Many of his former students are currently teaching mathematics in Oregon and in the Portland-metro area. His textbook Euclidean and Transformational Geometry: a deductive inquiry intended for pre-service and in-service high school and middle school teachers has just been published by Jones and Bartlett publishers. The textbook emphasizes his approach to building a successful mathematics school curriculum including: a discussion of strategies and interactive approaches to problem solving.

## **Hal Sadofsky**

Dr. Sadofsky holds a Ph.D. in mathematics from M.I.T., and undergraduate degrees in mathematics and music from the University of Rochester. He is a math professor at the University of Oregon. His research is in algebraic topology. Professor Sadofsky teaches mathematics courses ranging from introductory calculus and statistics courses through advanced graduate courses. In addition, he supervises Ph.D. students. For the last several years, he has been the Director of Undergraduate Studies in mathematics, and the head undergraduate advisor. During the last year, he has been involved in the Oregon Department of Education's revision of K-12 mathematics content standards. He also serves on ODE's Assessment Task Force that is charged with making recommendations about how the new "essential skills" for high school graduation should be assessed.