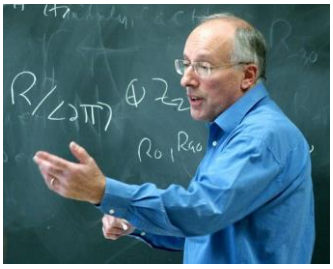
Photos Undergraduate Mathematics Day 2011



Undergraduate Mathematics Day at the University of Dayton

Saturday November 11, 2017

- **An undergraduate mathematics conference**
- **Contributed 15-minute talks, especially by undergraduate students, on mathematics research, the learning and teaching of mathematics, the history of mathematics, and applications to disciplines related to mathematics**
- **Two invited addresses intended for a general audience, requiring no advanced mathematics**
- **Publication opportunity in online, refereed Conference Proceedings based on talks presented**
- **No registration fee, complimentary lunch**

Registration and information at
http://go.udayton.edu/UndergradMathDay
Deadline for abstracts is Wednesday, November 1, 2017.

The Eighteenth Annual Schraut Memorial Lecture

Joe Gallian

University of Minnesota Duluth

Breaking Driver's License Codes

Many states use complicated algorithms or formulas to assign driver's license numbers but keep the method confidential. Just for the fun of it, I attempted to figure out how the states code their license numbers. In this talk I will discuss how I was able to break the codes for Minnesota, Michigan, New York and Missouri. The talk illustrates an important problem-solving technique used by scientists but is not emphasized in mathematics classes. It also teaches the lesson that sometimes things done just for the sake of curiosity can have applications.

Allison Henrich

Seattle University

It's All Fun and Games Until Someone Becomes a Mathematician

As former MAA President Francis Su recently reminded us, PLAY is essential for human flourishing. Whether you are a poet or a scientist, a grandparent or a child, play can powerfully enrich your life. For mathematicians, play is essential for building intuition. For undergraduates, play can inspire a desire to get involved in mathematical research. The world of knots provides fertile ground for understanding these connections. Playing games on knot diagrams can give us intuition about knotty structures, while learning about the theory of knots can reveal the "magic" behind rope tricks and excite us to learn more.

We are grateful for support from UD's Department of Mathematics, The Leonard A. Mann, S.M., Chair in the Sciences at UD, and UD Math alums including contributors to the Endowed Schraut Memorial Fund.