Bay Area Mathematical Adventures

Thomas Banchoff
Cylinders and Möbius bands: How can we see the difference?

Santa Clara University

Santa Clara University, Daly Science 207

Friday, April 20, 2018, 7:30 pm
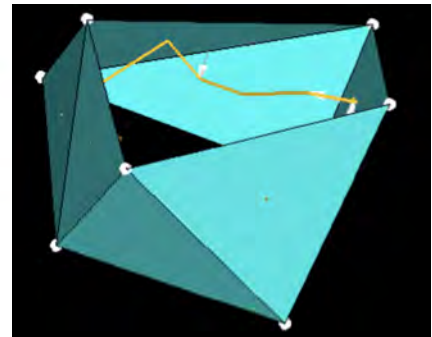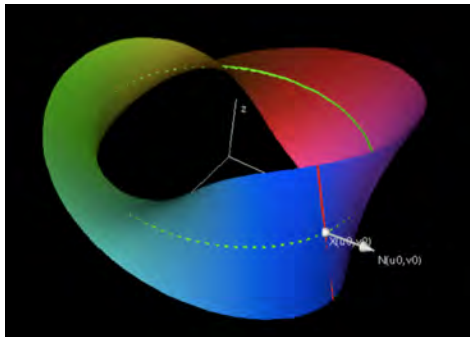
If we attach one end of a strip of paper to the other, we either create a cylinder with two boundary curves or a Möbius band with one boundary curve. What visual clues help us see which is which? We will investigate seven ways to recognize the differences, including folds, self-intersections, and inflections. Physical models and computer graphics images illustrate the talk.

Tom Banchoff is currently the Paul Halmos Visiting Professor at Santa Clara University, having retired from teaching at Brown for fifty years. He served as President of the MAA from 1999-2000. Teaching awards include the MAA Haimo Award for Distinguished University Teaching and the NSF Director's Award for Distinguished Teaching Scholar. Banchoff has also held visiting positions in California at UCLA, Stanford, and USF.
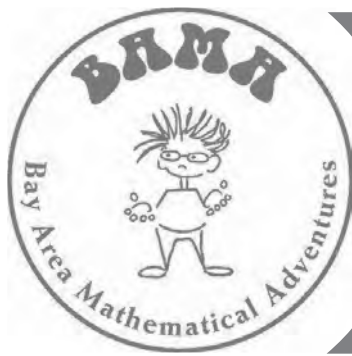
* See back for map and directions.

Photo by John Foraste

BAMA

Bay Area Mathematical Adventures

A series of presentations on diverse topics by remarkable mathematicians. All talks are free and open to the public.

WHY?

BAMA aims to challenge and motivate students to think mathematically. Speakers will present real mathematics, and will share with the audience modern views of mathematics. Some talks will provide students with related problems, or will enable teachers to expand later on the topics with their students.

WHO?

BAMA is aimed at bright high-school age students. However, all are welcome: younger or older students, teachers, parents, and the general public.

WHEN?

Evening talks will be given approximately once a month between September and April. Each talk will be self-contained (speakers will not assume their audiences have attended previous talks).

WHERE?

**Santa Clara University
Daly Science, rm. 207**

■ From US Highway 101, take the De La Cruz Blvd/Santa Clara exit and follow the signs to El Camino real and main campus entrance.

■ From I-280, take I-880 north toward Oakland to The Alameda exit. Turn left onto The Alameda (which becomes El Camino Real) to main campus entrance.

■ From I-880, take The Alameda exit, travel north (The Alameda becomes El Camino Real) to main campus entrance.

Note: If you arrive by car, you can go directly to the parking garage at Franklin and Alviso and purchase a permit at a self-serve kiosk. Alternatively, it is usually possible to find free street parking within a couple of blocks.

■ If you have a disability and require reasonable accommodation, please call anyone on the steering committee, or 1-800-735-2929 (TTY—California Relay) 24 hours in advance.
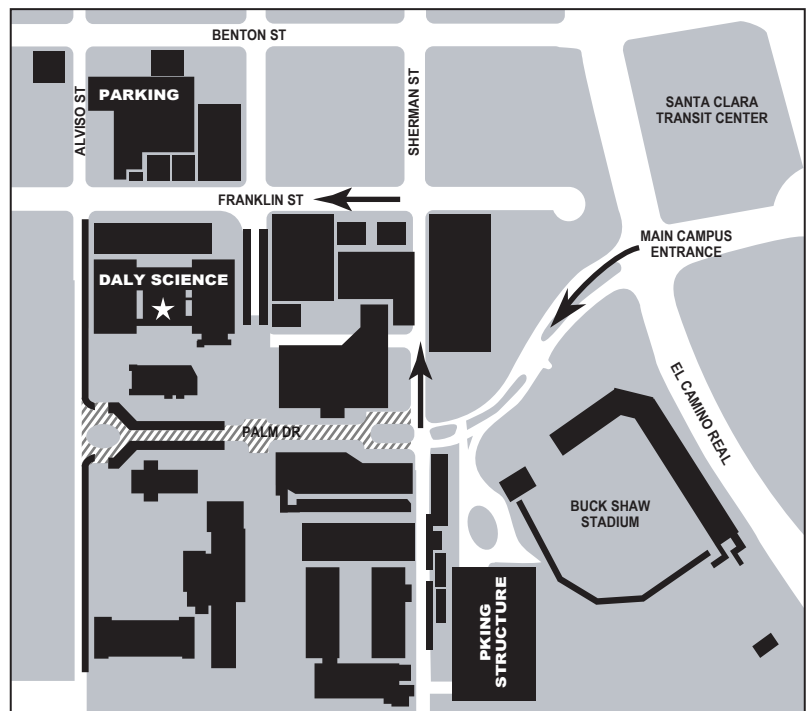
FOR MORE INFO:

http://www.mathematicaladventures.org

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