Sam Vandervelde

Marden's Marvelous Theorem

Santa Clara University, Daly Science 207
Friday, October 10, 2014, 7:30 pm

 In 1945 Morris Marden described a remarkable result due to Jörg Siebeck, which involves a rather wide-ranging collection of mathematical tools and topics including Cardano's formula for solving the cubic, ellipses inscribed within triangles, and the formula for the derivative of a polynomial. In this talk we will uncover an elegant proof of this result in which cube roots of unity play an important role. Along the way the speaker's favorite number will be revealed and kangaroos will make a fleeting appearance.
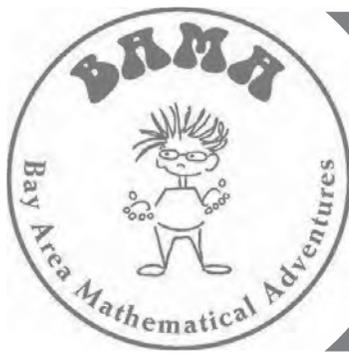
Sam Vandervelde is currently chair of the Department of Math, CS & Stats at St. Lawrence University and will become the Dean of Mathematics at Proof School when it opens in San Francisco in the fall of 2015. Sam is an active scholar and educator who enjoys inspiring students of all ages with beautiful mathematics. He launched the Stanford Math Circle, wrote Circle In a Box, and received the Alder Award for Distinguished Teaching from the MAA. As a student Sam was a two-time USAMO winner and represented the United States at the IMO in 1989.

* See back for map and directions.

Visit the Bay Area Mathematical Adventures (BAMA) at http://mathematicaladventures.org

To receive email notifications about BAMA talks, please contact Frank Farris at ffarris@scu.edu .

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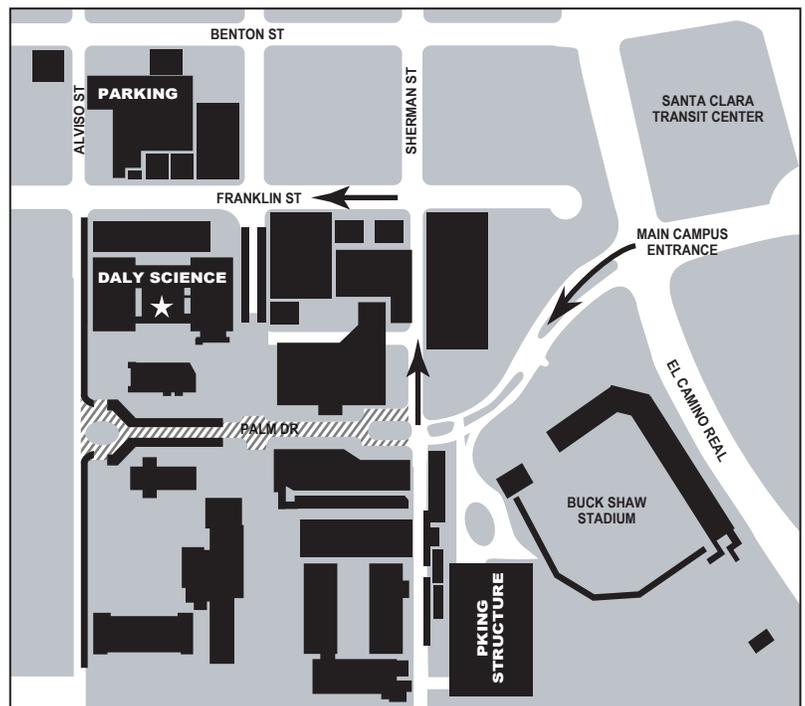
WHEN?
Evening talks will be given approximately once a month between September and April. Each talk will be self-contained (speakers will not assume their audiences have attended previous talks).

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, you may enter the code BAMA9818 into the machine and the SCU Department of Mathematics and Computer Science will pay for your parking! Either way, you must display a valid permit on your dash.

■ 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

BAMA Steering Committee:
Tatiana Shubin SJSU 408-924-5146
Frank Farris SCU 408-554-4430
Bradley Jackson SJSU 408-924-5100
Gerald L. Alexanderson   SCU 408-554-6894