

BAMA

School Year 2015—2016
Join us for a free talk...

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Ed Schaefer

The Miracle of Public Key Cryptography



Santa Clara University, Daly Science 207

Wednesday, September 30, 2015, 7:30 pm

For thousands of years, people have wanted to communicate secretly, for reasons of war, finances and love. Until recently, finding a way to communicate in secret involved getting together ahead of time and agreeing on a secret key for the code they would use. If you want to encrypt your credit card number for Amazon, then visiting their headquarters and agreeing on a secret key ahead of time is impractical. In 1975, Diffie and Hellman at Stanford found a way to safely encrypt information for someone you have never met. In this talk, we will explain how.

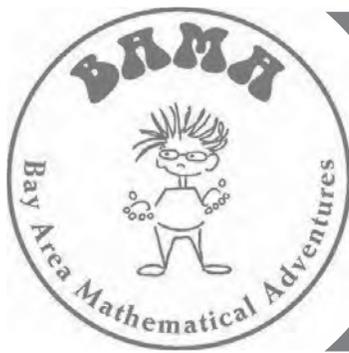
Ed Schaefer is currently chair of the Department of Math & CS at Santa Clara University, despite starting his academic career in psycholinguistics. Most of his research is in arithmetic geometry, which uses geometry to solve problems about numbers. He is known for mentoring other LGBT members of the campus community and for the two years he spent in Malawi creating the cryptography component of a graduate program in information security.



* 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.

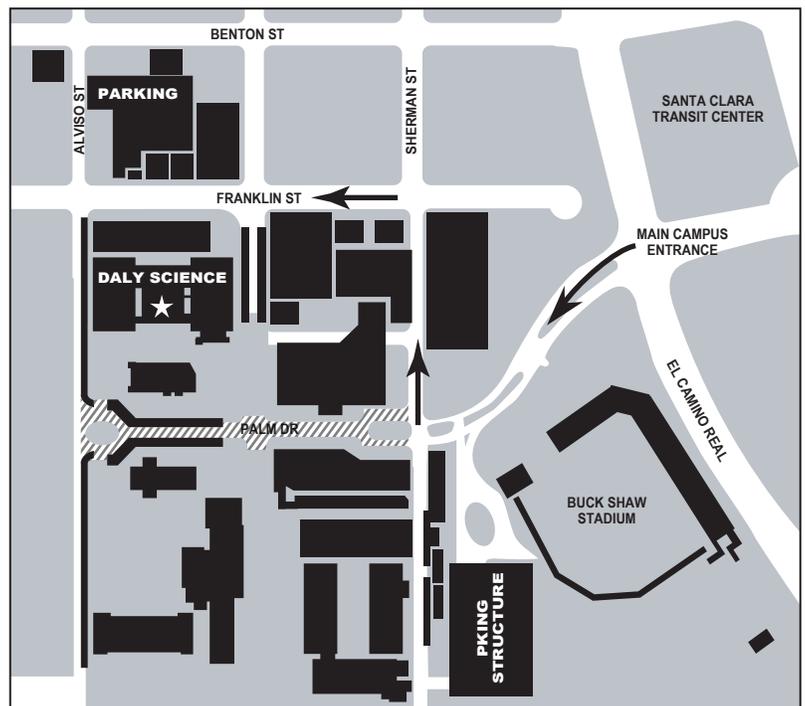
WHEN?

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 a special code (available at our website) 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.



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