Bay Area Mathematical Adventures

Marion Campisi
Space Farming and the Euler Characteristic

Santa Clara University	**Santa Clara University, Daly Science 207**
	Friday, January 25, 2019, 7:30 pm

A mysterious company offers you the chance to start a farm on a distant world. Is this the opportunity of a lifetime or too good to be true? We will use mathematical reasoning and our wits to answer this question. Along the way we will discover the Euler Characteristic, a powerful mathematical invariant in the field of topology. Our investigation of the Euler characteristic leads us to unexpected places and we see that sometimes in math apparently unrelated topics are intertwined.
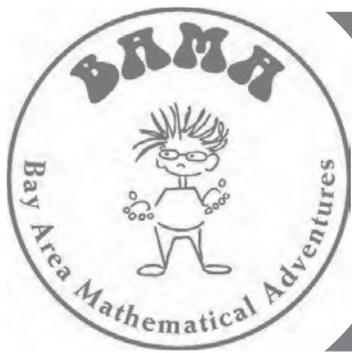
Marion Campisi is an assistant professor of mathematics at SJSU. Her main research interest is low dimensional topology, especially 3-manifold and knot theory. She has recently started research in the mathematics of redistricting and gerrymandering.

* See back for map and directions.

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
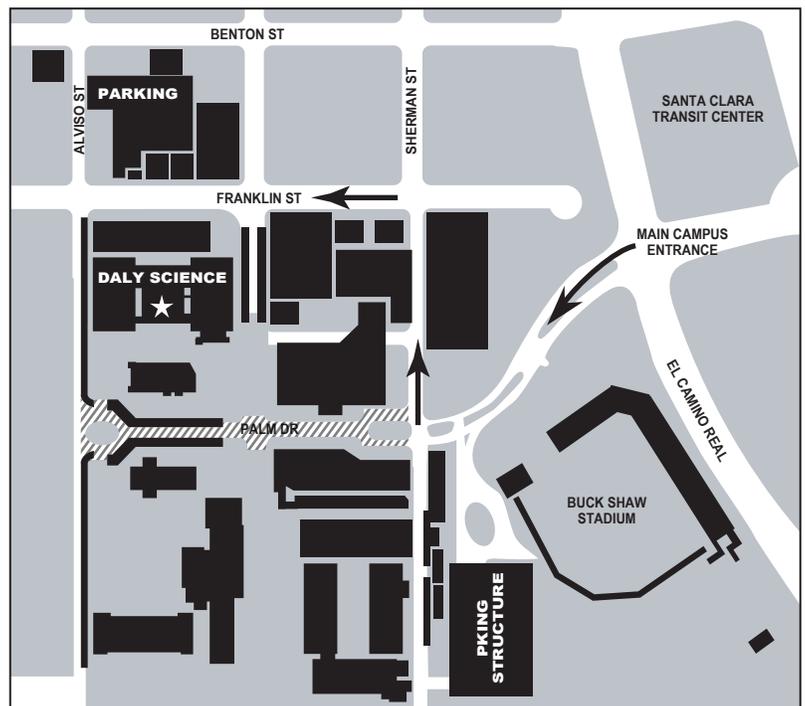### Daly Science, rm. 207

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

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