Better **Together:** Northern California **CASE** Regional Gathering

Learn, Share and Connect with other Science Educators

Spend the day attending workshops, networking, and a social happy hour!

Saturday, January 22, 2022 8:45am – 4:00pm San Joaquin COE - FabLab Social happy hour German Guys 10438 Waterloo Rd Stockton, CA 95215

\$65 members \$85 nonmembers

CASE is committed to creating an event experience where we can gather together in a safe and healthy environment. Note that we will provide the necessary measures to ensure that each participant's well-being is our top priority. Please visit the CASE website for COVID-19 protocols.

Register Online https://bit.ly/3cf5p1W



Stephen Callahan



SCHEDULE OF EVENTS

Saturday, January 22, 2022 - Northern CA - San Joaquin COE, FabLab

8:45am - 9:30am Registration Check-In, Coffee, Networking

9:30am - 11:00am Common Experience Data Crashes at the Intersection of Science and Computer Science

Presenter: Stephen Callahan, SJCOE

Computers are great with numbers, and when those numbers describe something that has happened, we call it data. We'll look at how we can program a small circuit board called a microbit to collect data from collisions. We'll also use our data to help inform our engineering as we design bumpers to keep drivers safe. No previous coding experience is necessary, our coding will go from zero to 60 and it will be fun the whole way.

11:15am - 12:30pm Breakouts Breakout #1 - Workshop, rade-band (Details Coming Soon) STEMscopes Partner Session

Breakout #2 - Workshop, grade-band TK-12 Adding E and T to our STEM lesson: Data Crash Part 2

Presenter: Stephen Callahan, SJCOE

Teachers will return to the SJCOE FabLab to engineer a Laser Cut bumper to decrease the force felt in a crash. We'll also learn to program the Microbit to control a RVR robot. Computer Science and Technology used to increase engagement will be a focus of this session.

Breakout #3 - Workshop, grade-band, 6-12 Mathematics and Computational Thinking with HHMI: Authentic

Data and Practices

Presenter: Jim Clark and Samantha Johnson, HHMI/ Arroyo High School

Continue highlighting the practice of mathematics and computational thinking! See how to authentically integrate this SEP into your classes. We'll utilize BioInteractive resources that allow students to engage in traditional and less traditional ways, including data analysis, infographics and more.

12:30pm - 1:15pm Lunch, Networking

1:15pm - 2:30pm Breakouts Breakout #1 - Workshop, grade-band, 3-5 Growing The Environmentally Principled Mindset Through 3D Assessment

Presenter: Sherrie Starkie, San Ramon Valley Unified School District

Learn how to weave EPCs into issues that connect with students. Backwards mapping from a summative assessment, participants will use observations and information on weathering and erosion to choose the best location for a future school.

Breakout #2 - Workshop, grade-band, TK-12 Action Oriented Learning About

Local Climate Change Phenomena Through Mapping

Presenter: Deirdre Snyder, Environmental Justice Caucus of the Oakland Education Association

Join us to explore how to engage and empower students through mapping local climate change and environmental justice phenomena that have direct impacts on your students' lived experience!

Breakout #3 - Workshop, grade-band, 9-12

How to Make Science Instruction More Meaningful, Rigorous, and Equitable

Presenter: Victor Sampson, University of Texas at Austin

Learn how to make learning experiences more meaningful, rigorous, and equitable using the Argument-Driven Inquiry instructional model. The workshop will demonstrate how this model can help students learn to make sense of.

2:45pm - 4:00pm Social Networking Reception

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