

STEM WEEK 2019

MONDAY, OCTOBER 21

The Latest Finds in Dinosaur Paleontology

Presenter: Diana Pomeroy

Location: R-124 / **Time:** 10:15-11:15am

Come find out about the latest research on dinosaur paleontology! Learn about what it takes to study dinosaur fossils and how paleontology is needed in today's society!

Discover the Solar System and Night Sky

Presenter: Bob Menn

Location: Tessmann Planetarium

Time: Check in at 12:45pm, show starts at 1:00pm

No late entries permitted.

Learn how to observe the planets & constellations that are currently visible in the evening sky. Then tour the cosmos: the deserts of Mars, the ice mountains of Pluto, the geysers of one of Saturn's moon & the mysteries of Jupiter's 4 major moons. Discover which worlds may harbor life & other wonders of the universe.

Who Dunit?!?! CSI Using BIO

Presenter: Minhan Dinh-Mahavongtrakul

Location: R-228 / **Time:** 2-3:00pm

Ever wonder how biology integrates in the world of CSI? In this workshop, you will get to see how DNA is used in the world of forensics. Students will also have a chance to play detective & identify a "blood" sample from a crime scene to determine the suspect. *Blood sample is a simulation & not human blood. Limited to first 32 students.

Science for the People! Exploring Open Access Science Research

Presenter: Annie Knight **Location:** Nealley Library,

L-112-1 **Time:** 5:00 – 6:00pm

Scientific research can help inform our own decision-making processes related to our health, the environment, and many other important topics that impact our daily lives. Thanks to the Open Access movement, scientific research findings & data have become freely available to the public. Come explore different Open Access resources available to you with your friendly Science Librarian!

Ted Technology Talk:

Artificial Intelligence-Powered Dystopia

Sponsored by MESA

Location: D-103 / **Time:** 6:00 – 7:00pm

In an eye-opening talk, techno-sociologist Zeynep Tufekci details how the same algorithm companies, like Facebook, Google & Amazon used to get you to click on ads that are also used to organize your access to political & social information. What we need to understand is how the powerful might use AI to control us and what we can do in response.

TUESDAY, OCTOBER 22

Tools of the O-Chem Trade

Presenter: William Nguyen

Location: R-302 / **Time:** Stop by any session:

11:00am, 11:30am, Noon, or 12:30pm

Does your major require a class in Organic Chemistry? Or maybe just a little interested in learning about some modern instrumentation used within a chemistry lab? Stop by to learn about some of the cool "tools" used in an O-Chem lab class. Limited to 10 students per 30-minute session.

Living on the Edge – Geologic Hazards of California

Presenter: Phil Hughes

Location/Time: R-111 / **Time:** 12:00 – 1:00pm

Natural disasters are no strangers to California but did you know that there is more than just a "Big One" on the San Andreas Fault that should concern us? Let knowledge of our past prepare you for the future.

Careers in STEM

Presenter: CSUF Project RAISE

Location: R-113/ **Time:** 12:30 – 1:30pm

Explore careers within your major! Discover new resources for internships and research opportunities in Science, Technology, Engineering, and Mathematics.

Scholarships for STEM

Presenter: Nandini Puri

Location: L-223 / **Time:** 1:00 – 2:00pm

Stop by to learn about ALL the scholarships available to you! You will learn how to apply & receive help searching for ways you can get the money you need to further your education!

The Real Parasites of Orange County

Presenter: Patty Oertel

Location: R-226 / **Time:** Stop by for a 15-minute session anytime between 1:30 – 3:00pm. Final session at 2:30pm.

Observe & learn from current BIO-229 students about mosquitos, ticks, & kissing bugs. These insects are found in Orange County & are responsible for transmitting various parasites! Discover how these real parasites are responsible for Chagas and Lyme Disease.

Trusting the Process: The Mathematicians Have Taken Over Sports

Presenters: George Sweeney, Rick Corp and Ben Hager

Location: H-107 / **Time:** 3:30 – 5:00pm

Over the last 10 years, professional sports teams have done crazy things in a quest to win championships. In 2013, Astros lost 111 games, in 2018 they won the World Series. In 2015-2016, 76ers lost 72 of 82 games. This year they were 4 bounces away from winning Eastern Conference semifinals. How is math taking over the world of sports? What is allowing it to happen at such an accelerated rate? How is math changing who is considered a good player and how we play the game? And how is it that you can use those lessons to make decisions, & pursue career All of these questions will be explored in our fun and innovative discussion on sports, statistics and analytics.

Transfer Awareness Trivia Session Sponsored by MESA

Location: L-204 / **Time:** 5:00 – 6:00pm

Find out what it takes to transfer to a 4-year university to reach your goal of getting a Bachelor's Degree: when you should apply, how to research programs, and choose the school that is right for you. Test your knowledge and get answers to your questions.

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WEDNESDAY, OCTOBER 23

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SACCON: The Science and Law of Zombies

Presenter: Charles Jang

Location: I-202 / Time: 11:00am – Noon

Come listen to a Comic-Con style panel discussion about zombies. How scientifically accurate are zombies? What are the most scientific ways to survive a zombie apocalypse? What are the legal ramifications if zombies were real?

Discover the Solar System and Night Sky

Presenter: Bob Menn

Location: Tessmann Planetarium

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The Path from Community College to Med School

Presenters: UCI School of Medicine

Location: L-222 / Time: 2:00 – 3:00pm

Thinking about attending Medical School one day? Stop by and hear from current UCI School of Medicine students about how you can best prepare for applying to medical school.

ASP: Developing with Databases

Presenter: Jason Sim

Location: A-215 / Time: 3:00 – 4:00pm

Learn how to connect a database using Active Server Pages. This will be a hands-on exercise for everyone who will be attending. **Limited to first 30 students.**

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STAR Student

Location: Central Mall behind Planetarium

Time: 7:00 – 8:30pm

Astronomy Professor, Daniel Horenstein will guide you as you explore the rings of Saturn and other out-of-this world destinations with telescopes from Tessmann Planetarium.

THURSDAY, OCTOBER 24

FABulous Lab and Robots

Presenter: Craig Takahashi/Greg Digilio

Location: A-214 / Time: 9:00 – 10:10am

Stop by & check out some Rapid Prototyping FABrication Equipment! Laser cutters, 3D scanners/printers & CNC engravers in action! Top it off, with a Robotics Demonstration! **Limited to first 30 students.**

Digest This!

Presenter: Sarah Mathot

Location: T-212 / Time: 11:00 am – 12:00pm

In this demonstration of nutritional science, you will see how your digestive system breaks down food and absorbs nutrients for energy and nourishment. **Limited to first 20 students.**

Stop Loafing Around, Let's Make Bread!

Presenter: Tiffany Heremans

Location: T-212 / Time: 12:00 – 1:30pm

Come and join us on a hands-on learning experience where you will explore the science in bread making. Get your hands ready because you will be kneading your own dough and better yet taking bread with you! Learning + eating is a win-win situation! **Limited to first 20 students.**

Undergraduate Research Experience (URE)

2019 Location: R-228 / Time: 1:00 – 2:00pm

Interested in conducting scientific research at CSU Fullerton next summer AND get paid while you do it?? Stop by and learn about some amazing opportunities available for next summer!

Preparing to Transfer as a STEM Major

Presenter: Shannon Muir

Location: L-222 / Time: 1:00 – 2:00pm

In this hands-on workshop, you will learn how to use assist.org to research 4-year UC's & CSU's. Discover what these schools want you to complete at SAC & their GPA requirements for STEM majors. Come & explore different majors & colleges! **Limited to first 30 students.**

FRIDAY, OCTOBER 25

Undergraduate Research Experience Student Panel

Location: R-128 / Time: 10:30 – 11:30am

Stop by & hear SAC students share about their summer research through CSUF's Undergraduate Research Experience Program.

Where, Oh Where, Do Our Medicines Come From?

Presenter: Charles Jang

Location: R-228 / Time: 1:00 – 2:00pm

A hands-on experience learning how biotechnology is used to manufacture common medicines & cancer drugs. We will practice purification on a glow-in-the-dark jellyfish protein. **Limited to first 30 students.**

An Evening to Celebrate STEM at SAC

SAC Student Research Poster Presentations & Keynote Speaker

Location: A-210 / Time: 4:30pm

Come hear about the exciting research experiences of SAC students and support them in their pursuit of STEM degrees!! Then hear from **SAC Biology Professor, Dr. Kimo Morris**, as he shares about the emerging issues and opportunities available to an applied marine biologist.

*Parking Permit Required – Purchase at kiosks in Lot 6