College of Science
2022 Fall Conference
August 23
Today’s Plan

• Welcome and recognition of faculty and staff
• Highlights from units
• Safer Return
• COS Strategic Plan implementation and next steps

Fostering curiosity and a culture of scientific discovery
New Staff – Welcome!

Kevin Chung
Instructional Support Technician II, Biological Sciences

Ashlie Garcia
Admin Support Coord I, Dean’s Office

Diane Gonzalez
Interim Director of Academic Affairs Business Operations, Colleges of Science & Engineering

Marilyn Muro
Admin Support Coord I, Physics & Astronomy and Chemistry & Biochemistry
New Advising Center Staff – Welcome!

Rogelio Contreras
Student Success Advisor

Erick Peraza
Student Success Advisor

Jennifer Ray
Graduation and Retention Specialist

Lorena Roman
Student Success Advisor
Change in Staff Locations

- **Advising Center** - Moved to Building 8, room 304
- **Computer Science** - ASC moved to Bldg. 3, room 1645 (former advising center)
- **Geological Sciences** - ASC moved to Bldg. 3, room 1645 (former advising center)
Personnel Updates

Paul Beardsley
Director of CEMaST

Bill Burrows
Director of Development

Diana Ascencio
Advising Center Coordinator

Erin Questad
Chair, Biological Sciences

Gregory Barding
Chair, Chemistry & Biochemistry
Faculty Fellows (2022-23)

**Academic Programs**

Stephen Osborn  
Geological Sciences

**Faculty Recruitment & Development**

Homeyra Sadaghiani  
Physics & Astronomy

**Research**

Matthew Povich  
Physics & Astronomy
New Faculty – Welcome!

Rachel Blakey
Biological Sciences

Tatiane Soares de Lima
Biological Sciences

Taylor Thane
Chemistry & Biochemistry

Yunsheng Wang
Computer Science

Mingyan (Anna) Xiao
Computer Science

Gyasmine George-Williams
Kinesiology & Health Promotion

Amelia Chloe Simpson
Kinesiology & Health Promotion

He Jiang
Mathematics & Statistics
Promotion and Tenure

Andrea Bonisoli Alquati
Biological Sciences

Frances Mercer
Biological Sciences

Jessica Perez
CEMaST

Abdelfattah Amamra
Computer Science

Hao Ji
Computer Science

Ben Steichen
Computer Science
Promotion and Tenure

Zakkoyya Lewis-Trammell  
Kinesiology & Health Promotion

Jillian Cannons  
Mathematics & Statistics

Briana Foster-Greenwood  
Mathematics & Statistics

Fernando Lopez Garcia  
Mathematics & Statistics

Ivan Ventura  
Mathematics & Statistics
Promotion to Professor

Erin Questad  
Biological Sciences

Andrew Steele  
Biological Sciences

Tinting Chen  
Computer Science

Andrea Metzker  
Kinesiology & Health Promotion

Stacy Brown  
Mathematics & Statistics

Matthew Povich  
Physics & Astronomy
Faculty Awards

Arlo Caine
2022 College Teaching Award
Mathematics & Statistics

Samir Anz
2022 Outstanding Faculty Advisor of the Year Award
Chemistry & Biochemistry

Berit Givens
Wall of COOL Award
Mathematics & Statistics

Jayson Smith
2022 College Research Award
Biological Sciences

Paul Beardsley
2022 Provost’s Award for Excellence in Teaching
CEMaST and Biological Sciences

Janel Ortiz
Wall of COOL Award
CEMaST and Biological Sciences

Congratulations!
2022 Staff Awards

Cindy Dang
Administrative Support Coordinator II
Biological Sciences, Fall 2020

Anthony Beachler
Instructional Support Technician III
Biological Sciences, Spring 2020

Congratulations!
Welcome

CSUEU Bargaining

• GSI 7% - July 2022
• $3,500 one-time bonus
• Salary reopener – June 2023
• Salary steps survey – continue to work on implementation

Remote Work
-continue Temporary Remote Schedule based on operational needs
-Telecommute Policy rollout soon

Questions? If you have question about work, workload, Job description ... please contact a steward, unit rep, or myself.

Hector M Maciel
CSUEU Chapter President
• **You already know:** contract through 2024 was ratified in Spring
  - **Bread and butter**
  - 4% GSI (+ SSI + PPI + service award) for 2021
  - 3% (only!!) for 2022 (see below); *these start in July will probably appear on Oct. checks*
  - TBD% (+ SSI) for 2023

• **Statehouse shenanigans:** “11th-hour” reduction of CSU unallocated funding by $100M means CSU funding falls below level necessary for 4% instead of 3.%

• **Compare:**
  - Inflation outpaces pay increases
  - UC faculty raises ~4% in 2021 and ~5% in 2022

• **Upcoming:**
  - **Become a member**, so you can vote on things ([https://www.calfac.org/join-cfa](https://www.calfac.org/join-cfa)).
  - **Get involved** in local chapter; there are some ongoing conversations about parental leave, ARSJ efforts, lecturer issues, etc.
  - **Come to our general-membership meeting** in mid October.

Jonathan Puthoff • Chapter Vice President • CME Dept. Rep. • jputhoff@calfac.org
Advising Center

By the numbers

- 2021-2022 academic year: Had over 4,000 advising interactions with students via email, face-to-face, zoom, phone. (>1,000 hours)
- Spring 2022/Summer 2022 – Reviewed records of approximately 1,080 incoming students and provided degree progress information to departments

Accomplishments

- 4 new advisors transitioned into Student Success Advisors
- 1 advisor transitioned into the Coordinator role
- 2 advisors transitioned into an MPP role
- Helped in the process to graduate more than 900 students
- Held 9 campaigns to provide additional support to students on low academic standing or in need of early support efforts
Biological Sciences

- **New faculty!** Rachel Blakey & Tatiane Soares de Lima
- >30 peer reviewed papers
- **Grants**: Jason Ear (NIH), Jeremy Claisse (COAST) + others
- **Provost Award** for Excellence in Teaching: Paul Beardsley
- Ralph W. Ames Distinguished **Research Award**: Jason Smith
- College of Science **Staff Award**: Anthony Beachler and Cindy Dang
- Thank you **Ángel Valdés!**
Chemistry and Biochemistry

- Welcomed a new ASCI – Marilynn Muro
- Welcome to our new Asst. Professor, Taylor Thane (Organic Chemistry)
- 6 new external grant funding for $659,000
  One of those a Center Grant: Center for Closing the Carbon Cycle (C4)
- 3 new internal grant funding for $181,000
- 12 publications
- Over 40 presentations by faculty and students at both regional and national conferences
- Fully flipped Organic Chemistry 1 and 2
- Created digital repositories for Organic Chemistry, Analytical Chemistry, and Chemistry Research
Yes, we just moved!

Computer Science

Research Endeavors

- NSF REU Big Data & Security & DoE STARS UG research - Chen
- Cyber Training for Navy ROTC – Husain/Chen
- NSF Big Data, NSA GenCyber K-12, and Air Force JROTC Cyber Training – Husain
- NASA HPC for Flight control - Ji
- USDA Climate Change to help Farmers – Korah
- ARI Unmanned System for Agriculture - Raheja
- NSF REU Unmanned Technologies – Raheja/Tang
- Boeing Indoor Positioning - Tang/Raheja/Sun
- Northrop Grumman Unmanned Systems – Tang
- NSF BPC Alliance Curriculum Dev. / Social Impacts - Sun/Tang
- CSU Water Resource Policy Visual Platform - Steichen
- NSF RUI AI Inference for Driver Assistance - Wang

Congratulations to Drs. Chen, Amamra, Ji, Steichen

(19) high school teachers completed their CS supplementary authorization requirements with 1 year of specially designed CS courses for teachers in collaboration with CEMaST
**Geological Sciences**

**Back to In-Person Teaching**

- **GSC 4910L Non-Virtual Outdoor Lab: Aug 2021**

**Research Endeavors**

- Melting rocks to make glass beads for XRF analysis

**Enrollment Growth**

![Bar chart showing enrollment growth from 2018-19 to 2022-23]

**Job Placement of Geology Alumni**

- The Mining industry is booming!!
- We are happy for our gainfully employed graduates in many fields!!

**Exception: Jan 2022**

- **GSC 3330L In-Person**
- **GSC 4910L Students April 2022**

- Nick Van Buer back from Sabbatical (Bryan Murray on Sabbatical Spring 2023)
- UAV grant equipment is delivered
- MS students are graduating

*Note: The text is a summary of ongoing activities and achievements in the Geological Sciences department.*
Kinesiology and Health Promotion

- Implementation of strategic doing
  - Staff award
  - Launch of our diversity, equity and inclusion committee
  - Speaker series

- Select grant activities
  - Two SPICE grants (funded)
  - One SIRG grant (funded)
  - One NIH grant submitted

- Exercise science laboratory update

- Implementation of undergraduate curriculum redesign (Fall 2022)

- Challenge course and MDC re-opening

- Elementary PE Workshop in July
Mathematics and Statistics

• **BAMM! grant** continues to provide scholarships and mentoring for MS students, to diversify the pipeline into Math PhD programs.

• Major revisions to **graduate program**, with new proposal being submitted this year

• **Digital Content Repositories** for 6 new courses

• **Program Review** of both BS and MS programs

• New Faculty – Dr. He Jiang

• Promotions and tenure
  • Stacy Brown
  • Jill Cannons
  • Briana Foster-Greenwood
  • Fernando Lopez Garcia
  • Ivan Ventura
Physics and Astronomy

Grants
6 externally-funded grants involving 5 faculty!

Teaching
In final stages of upgrading 3-2011 to be a computational teaching lab!

Industry and Alumni
- 2022 College of Science Research Symposium and Alumni Reunion
  - Plan to make it an annual tradition!
  - Over 30 Physics Alumni
- 10th Annual Alumni Career Panel
- 1st annual Industry Advisory Board meeting
Center for Excellence in Math and Science Teaching (CEMaST)

- Finishing new **strategic plan** with revitalized Faculty Fellow program
- Strong push to **recruit STEM teachers**
- **Becki King** rules! Supported Chemistry and Cal Math Project
- **Mai Tran** is also now supporting INVESTS NSF grant
- **Jessica Perez**, science and engineering educator earns early Tenure and Promotion
- **Janel Ortiz** wins Wall of COOL award
- **Stacy Musgrave & Qing Ryan** are back from successful sabbaticals
- **Laurie Riggs** is in the FERP program and teaching for math spring semester. We miss her dearly!
- **Jodye Selco** is in year 2 of FERP and teaching for chemistry. Put together 3 Digital Content Libraries
Science Educational Enhancement Services (SEES)

- **Discovery Camps** – 842 campers

- **NSF SPIRES & NSF LSAMP** programs
  Worksite visits @ Caltech, UCLA, CA Dept. of Toxic Substances Control, CA Academy of Sciences, UCSD, USC, Scripps, others

- Year-long Professional Development Workshop series & President Coley

- **Catalina** Excursion

- 15 student members accepted to **PhD/MS programs** for Fall 2022
Safer Return Incident Investigation: What you need to know…
(as of 8/15/22, subject to change per public health)

1. **Report positive case or exposure** via the COVID-19 Self-Report Form. Direct students or employees to do the same. Do not conduct an incident investigation or inform close contacts.

2. If you **test positive**, you cannot come to campus for a minimum of 5 days. The earliest you can return is on day 6,*** but you must wear a mask for 10 days.

3. If you had a **close contact exposure and have no symptoms**, you can come to campus but you must **test within 3-5 days** and wear a **mask for 10 days**. If you are unable to test, you cannot come to campus for 10 days.*
   If you have a positive test result, report it via the COVID-19 Self-Report Form.

4. If you are **experiencing symptoms**, you cannot come to campus until you have received a **negative test.***** If you do not want to test, you cannot come to campus for 10 days.*

5. COVID-19 Supplemental **Paid Sick Leave** (SPSL) up to 80 hours is available effective Jan 1, 2022 through Sep 30, 2022 for employees unable to work due to COVID-19 related reasons.

*Considerations for individuals who have tested positive within 90 days.
**Refer to policy for information on eligibility and required test documentation.
***Must be cleared by the Safer Return Incident Investigation Team upon **negative test** and improving symptoms (including fever-free for 24 hours).
One Positive Faculty Case or Exposure with Symptoms

Temporary Changes to Course Modality (up to 1-week)
(as of 8/15/22, subject to change per public health)

Can you teach your class virtually or do you need to take sick leave?

Teach class virtually

Inform Department Chair: if it is a change in course modality.

Take sick leave

Inform Department Chair: Department Chair to take appropriate course of action in securing a substitute or cancelling class.

Submit a COVID-19 Self-Report Form

Food faculty member positive or experiencing symptoms

If you have been on campus within the past 14 days.

Faculty should also submit a self report form if they have had a close contact exposure. They can continue to come to campus but must test and wear a mask for 10 days.
One Positive **Student Case** or Exposure  
(as of 8/15/22, subject to change per public health)

**Student informs faculty** member they are positive, have been exposed, or are experiencing symptoms

**Student informs campus** via [COVID-19 Self-Report Form](#)

**Positive Test**

**Experiencing Symptoms**

**Faculty instructs student to** submit a COVID-19 Self-Report Form if they have been on campus within the past 14 days.

*If student discloses that they have tested positive and/or are experiencing symptoms, faculty can instruct student not to come to campus until the student has been cleared by the Safer Return Incident Investigation Team.*

Faculty **should not ask** students if they have or suspect they have COVID-19.

**Campus will notify close contacts exposed during 48-hour infectious period.**

*If exposure occurred in a classroom, everyone will be required to mask for at least 10 days.*

**Student to quarantine.** Cannot return to in-person activities until negative test.

**Positive Test**

**Negative test**

Faculty can proceed with current course modality. **No changes needed.**

**No additional action needed.**
College of Science

Our Vision
Fostering curiosity and a culture of scientific discovery

Our Mission
Educate, mentor, and inspire students through scientific inquiry and hands-on learning

Our Values
CURIOSITY
INTEGRITY
COLLABORATION
INCLUSIVITY
INNOVATION
The Courage to Practice

CLIMATE
Observable Behaviors in the organization

Support

Conflict

Humor

Risk-Taking

Values

Beliefs

History

CULTURE
Deep Foundations and Expectations
2021-2022 College Leadership Initiatives

Speaker Series team showcased excellence in research with scientists who have made their work accessible to all disciplines (virtual or hybrid)

Health and Wellness team hosted physical activities and connect & learn events to promote wellness and community across the college

Student Success team delivered two key products:

• A STEM Success hub to improve efficiency and synergy of communication about tutoring, clubs, events, and career opportunities

• Launch an expanded COS Research Symposium to include alumni connections
2022-2023 College Initiatives

• How to **sustain** 2021-2022 successful leadership initiatives

• Use the **CPP STEM Success Network**, an innovative collaboration across three colleges (Science, Engineering, Agriculture), to maximize student success efforts through sharing best practices for outreach, retention and graduation

• Design **committee for Diversity and Inclusion** at the college level to include all stakeholders (faculty, staff and students)
Welcome back!

The Courage to Practice

Our behaviors reflect our values.