

# College of Science

## 2023 Fall Conference

### August 22

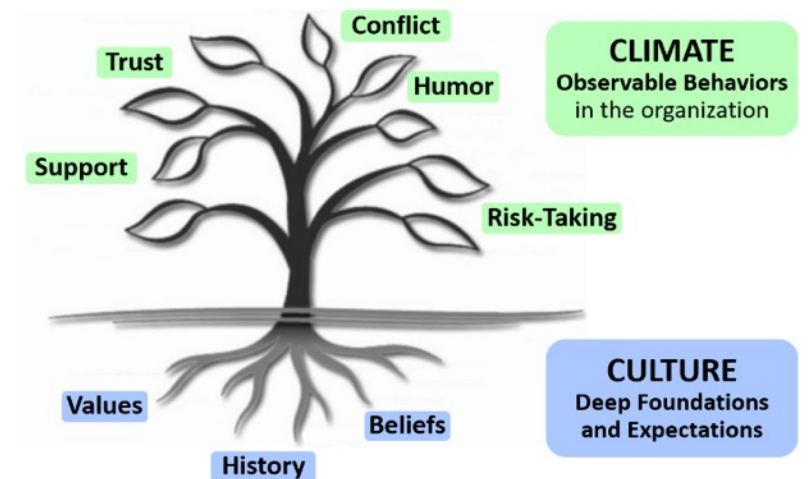
CalPoly  
Pomona



# Today's Plan

- Welcome new faculty and staff
- Recognize promoted faculty and award recipients
- Highlights from college units
- Visitors: CSUEU, CFA, Career Center
- College Strategic Teams

*Fostering curiosity and  
a culture of scientific discovery*



# New Staff – Welcome!



**Mari Arriaza**

Admin Support Coord II  
Chemistry



**Jessica Avalos Garcia**

Admin Support Coord I  
Computer Science



**Cristina Jaramillo**

Admin Support Coord I  
Dean's Office



**Ashley Arnold**

Admin. Support Coord I  
Kinesiology & Health Promotion



# New Staff – Welcome!



**Steven Najera Martinez**  
Instr. Support Tech I  
Kinesiology & Health Promotion



**Andrea Jaime**  
Student Success Advisor



**DeVoneia Jordan**  
Lead Career Coach



**Bill Burrows**  
Director of Development

# New Faculty – Welcome!



**Matthew Capobianco**  
Chemistry & Biochemistry



**Hyunkyung Yoon**  
Mathematics & Statistics



**Dhruva Kulkarni**  
Physics & Astronomy

# Personnel Updates



**Carrie Aiu**  
Budget Analyst  
Cal-Bridge



**Lorena Roman**  
Retention and Graduation  
Specialist



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



**Homeyra Sadaghiani**  
Interim Associate Dean

# Faculty Fellows (2023-24)

## Academic Programs



**Stephen Osborn**  
Geological Sciences

## Research



**Matthew Povich**  
Physics & Astronomy

# Promotion and Tenure



**Lara Killick**

Kinesiology & Health Promotion



**Minhyuk Kwon**

Kinesiology & Health Promotion



**Srdjan Lemez**

Kinesiology & Health Promotion

## Congratulations!



# Promotion and Tenure



**Anne Cawley**  
Mathematics & Statistics



**James Risk**  
Mathematics & Statistics



**Cristina Runnalls**  
Mathematics & Statistics

## Congratulations!

# Promotion and Tenure



**Shohreh Abdolrahimi**  
Physics & Astronomy



**Breanna Binder**  
Physics & Astronomy

## Congratulations!

# Promotion to Professor



**Jeremy Claisse**  
Biological Sciences



**Yan Liu**  
Chemistry & Biochemistry



**Edward Jo**  
Kinesiology & Health Promotion

## Congratulations!

# College Faculty Awards



**Ken Hansen**  
COS Distinguished Teaching Award  
Kinesiology and Health Promotion



**Chantal Stieber**  
COS Ames Distinguished Research Award  
Chemistry & Biochemistry

## Congratulations!



# Faculty Awards



**Steve Alas**  
CSU Wang Excellence  
Award for Service  
Biological Sciences



**Kathryn McCulloch**  
Wall of COOL Award  
Chemistry & Biochemistry



**Greisy Winicki-Landman**  
Outstanding Faculty Advisor  
Mathematics & Statistics

## Congratulations!

# Staff Awards



**Michelle Terrazino**

Instr. Support Tech II  
Biological Sciences  
Fall 2022



**Lisa Lidle**

Instr. Support Tech II  
Kinesiology & Health Promotion  
Fall 2022



**Becki King**

Admin Support Coord II  
CEMaST  
Spring 2023



**Ian Carlson**

Student Success Advisor  
Science Advising Center  
Spring 2023

## Congratulations!

# CSU Employee Union

## Bargaining units 2, 5, 7, 9



- Welcome
  - CSUEU Bargaining 22/23
    - Salary reopener – June 2023
    - GSI ?% - July 2023
    - Salary steps update
  - Possible Strike
    - Question with Article 6
      - Concerted activities; no strike clause
    - CSU/CSUEU agreement 22/23
      - Article 6 suspended 22/23 (reopener)
  - IRP Equity letter
    - Over 450 Equity letters
    - 60 IRP Equity 3% adjustments
  - CSUEU Bargaining 2024/2027
    - Began in Jan/Feb 2024
- Questions?** If you have question about work, workload, job description ... please contact a steward, unit rep, or myself.

# Our Faculty Union Report

- Management has said NO to a 12% raise for 2023 that would make up for inflation, and they have refused our other reasonable proposals on expanded parental leave, workload limits (paying lecturers for service and course caps), and health and safety.
- Management's only counter-offer, which is a 5% raise, would lock in our losses from recent inflation. They have said "no" to everything else, and they want to increase our parking fees while they're at it.
- Right now we are continuing through the state's required labor board process in which we will go through fact finding and mediation.
- See the "[FAQ-2023](#)" on the CFA bargaining page for more on the process and next steps, answering common questions about potential job actions, including the fact that every faculty member would be protected.
- The new Chancellor's salary and benefits package of \$983,000 shows that while they claim the CSU can't afford to raise our salaries just to keep up with inflation, management keeps giving huge raises to administrators at the top
  - Note that the new chancellor's housing allowance alone is more than most of us make
- Remember that the last time we went to the brink of a strike (2016), we won!
- We can't win without everyone participating in their union.

**Join your union here!**



Say hi or ask me questions: [Francie Mercer \(Biology\). fkmercercpp@cpp.edu](mailto:fkmercercpp@cpp.edu)





# CPP Academic Senate

## Senate Committees

- Academic Affairs
- Academic Programs
- Budget
- Elections and Procedures
- Executive Committee
- Faculty Affairs
- General Education

## Academic Senate Nomination Timeline

- Nomination notice to all faculty: August 21 (first day of fall semester)
- Due date: September 8
- 5-day action period (another call): September 11 - 15
- Voting windows: September 11-17 and September 18–24

Academic Senate and all standing committees meet on Wednesdays from 3-5pm

# Science Advising Center

## ■ By the numbers

- [2022-2023](#) – Had over 9,288 advising interactions with students via email, face-to-face, zoom, phone. There were 3,513 unique interactions.
- [Spring 2023/Summer 2023](#) – Reviewed records and provided academic plans to 708 first year and 391 transfer incoming students.

## ■ Accomplishments

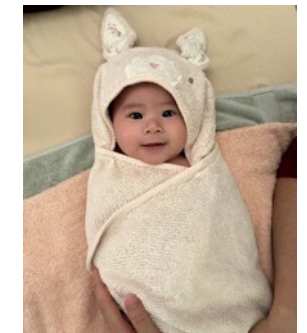
- One new advisor transitioned into Student Success Advisor, will be hiring 2 advisors in the fall.
- One advisor transitioned into Retention and Graduation role.
- Helped in the process to [graduate approximately 900 students](#).
- Held [10 campaigns](#) to provide additional support to targeted groups. Worked with departments to provide career guidance. Will continue in fall.
- Finished moving into a new space – 8-306!

# Biological Sciences

- Thank you, Jennifer Alexander
- New Staff: Kevin Chung and Tatiana Vargas
- >20 peer reviewed publications
- Grants: >\$2.9M: Scordato ARI & Steele NIH (x3)
- BioTrek fundraising
- Four SPICE grants
- CSU Wang Family Excellence Award Service: [Steve Alas](#)
- Teaching Excellence Award: [Carla Stout](#)
- Research Excellence Award: [Jeremy Claisse](#)
- Staff Excellence Award: [Kevin Chung](#)
- Associate chair for student affairs: Juanita Jellyman
- Bio babies!



Josie



Allie

# Chemistry and Biochemistry

## ■ New Grants and Awards

**Dr. Osberger:** ACS-PRF

**Dr. Stieber:** AMES Research Award &  
DOE-EFTC: Center for Closing the Carbon Cycle

**Dr. Anz:** CoS Outstanding Advisor

## ■ 5+ peer-reviewed publications

## ■ Undergraduate Students

Two graduating seniors earned an NSF-GRFP  
(and several more are in Graduate School).

## ■ Graduate Students

- Romualda Alquino: CSUPERB Graduate Student Grant
- Christian LeRue: RSCA Conf. Presentation Award

## ■ Years of Service

- Peng Sun (10 years)
- Bryan Sullivan (10 years)
- Sean Liu (20 years)
- Joe Casalnuovo (30 years)
- Joelle Opotowsky (35 years)

## ■ New Staff: Mari Arriaza (back from Provost's office)

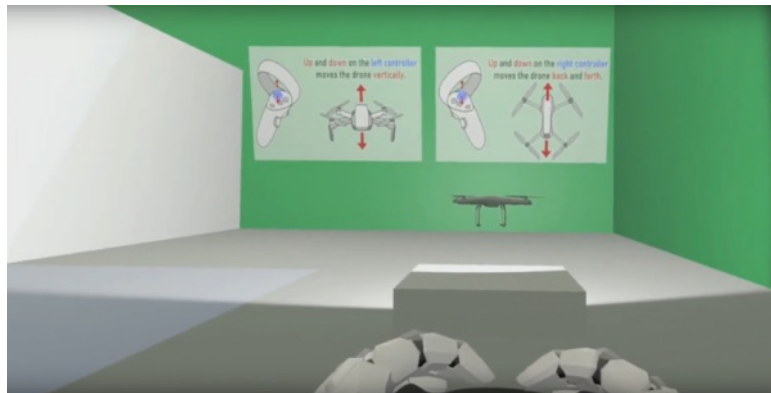
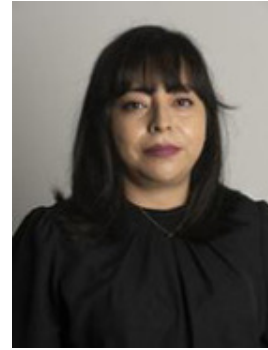
## ■ New Faculty: Matt Capobianco

## ■ New this Fall 2023: Peer Mentoring Program facilitated by our SMAACS (Chemistry Club)



# Computer Science

- Undergraduate: 1,357
- Graduate: 112
- 16 TT faculty (hiring 2 this AY)
- 21 lecturers (2 more joining)
- New and ongoing grants: Chen (NSF-REU, Google), Eger (Cal-State CREATE), Husain (NSF, CyberCorps, NSA, ONR, AFRL), Korah (CA Learning Lab, USDA, ARI), Marin (NSF), Raheja (NSF-REU, ARI), Sun (NSF-BPC), Tang (NSF-REU, CSU-CO), Yang (CSU-CO) & Wang (NSF)



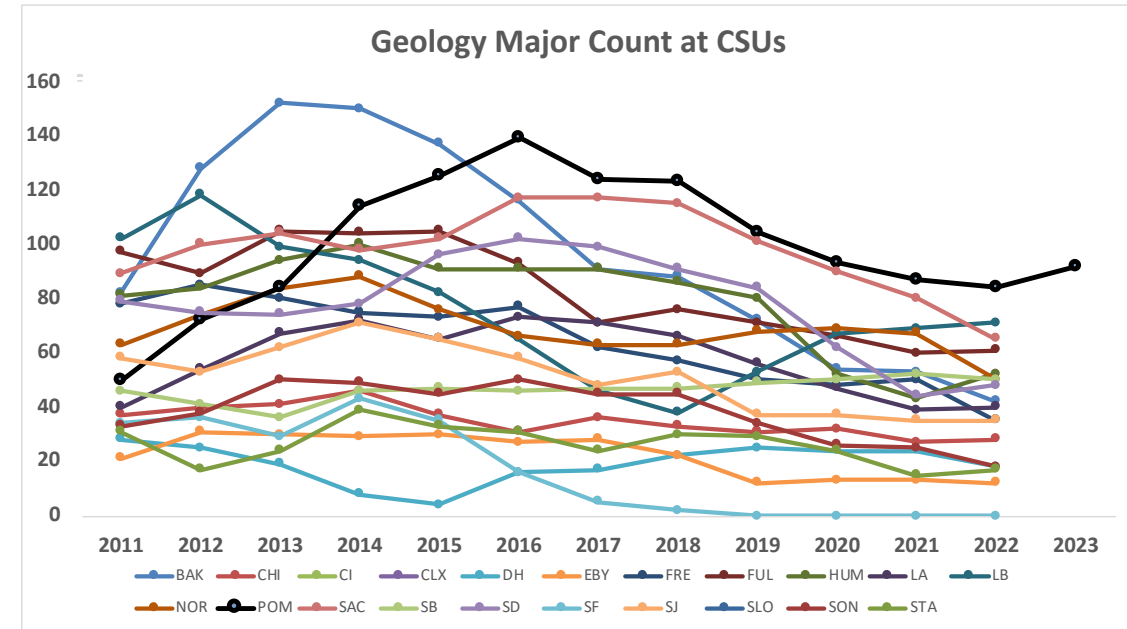
**Drone Training Simulator**

A virtual reality simulation that allows the user to fly a drone in simulated real-life environments and weather conditions.



# Geological Sciences

- Faculty Search
- Department Outreach
- Alumni Colloquium
- Assessment Redesign
- Getting Students Outside





# Kinesiology and Health Promotion

- Implementation of strategic doing
  - Diversity, equity and inclusion committee
  - Speaker series
- Department research activities
  - OYO Project (Lewis-Trammell & Killick)
  - Record number of students attending and presenting at conferences
- Exercise science laboratory update
- Creation of undergraduate minor (Fall 2023)
- Second annual Elementary PE Workshop (July 2023)



# Mathematics and Statistics

## Calculus coordination

- Common final exams
- Huge OER adoption

## Grants and partnerships with other universities

- Project COMPUTE: Anne Cawley and Cristina Runnalls
- CA Learning Lab data science: Jimmy Risk and Adam King



- New MS program submitted to Senate this fall
- Assessment DEI

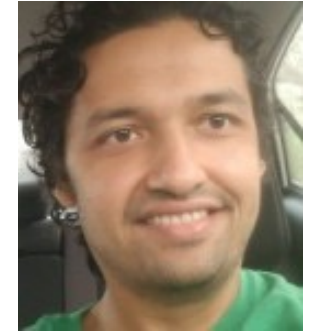
## Awards

- College of Science Teaching Award: Arlo Caine
- Outstanding Advisor for CoS: Greisy Winicki-Landman
- Math and Stats Teaching Award: Deborah Korneff



# Physics & Astronomy

- Congratulations on **Tenure & Promotion**:  
Breanna Binder & Shohreh Abdolrahimi
- **New Faculty**: Dhruva Kulkarni (experimental solid state)
- **56 incoming freshmen!**



## 2022-2023 Events

- Resume Critiques w/IAB (Sept. 2022)
- Technicians Meeting (Dec. 2022)
- SPS Zone Meeting (Feb. 2023)
- Women in Physics Seminar & Lunch (March 2023)
- IAB & Posters (April 2023)
- Astro Summer Workshop (July 2023)



**Society of Physics Students  
Zone 18  
Meeting 2023**

**FEB 17** SOCIALIZING + STARGAZING  
5-8PM  
• Welcome Keynote speaker  
• Dinner  
• Stargazing!

**FEB 18** ALUMNI & GRADUATE PANEL  
AM-4PM  
• Alumni from industry  
• Graduate students  
• Special guest speaker!



Upcoming: Resume Critiques & Presentation Skills (Sept. 19)



## Faculty Fellows Program

- Teaching/Community Fellow
- Research Fellow
- Principal Fellow

### As a CEMaST Faculty Fellow you will have:

- an opportunity to apply for **seed funding** (up to \$2000 for one year),
- access to K-12 math/science teaching supplies
- **connections** with K-12 school contacts
- access to a fellow **workspace** in the CEMaST office (computer and educational data analysis software)
- access to an **interview room** (4-A-645) for research use





# Science Educational Enhancement Services (SEES)

- Funded **33 students** to perform research through our **NSF SPIRES & NSF LSAMP** programs
- **17** student members accepted to **PhD/MS programs** for Fall 2023
- **Discovery Camps** – 850 campers
- Took busload of CPP students to the **Graduate Forum** in Long Beach to meet hundreds of graduate school representatives
- Converted **SCI 1110A** to a Course-based Undergraduate Research Experience (CURE) with 21 freshmen presenting at the COS Research Symposium
- Fall 2023:
  - Tri-campus scholars
  - Alumni luncheon





**Future Career Paths:**  
CPP Career & Professional  
Readiness Initiative

Tracee Passeggi  
Director Career Center

# What is Career Readiness?

According to the National Association of Colleges and Employers:

- *Career readiness is a foundation from which to demonstrate requisite core competencies that broadly prepare the college educated for success in the workplace and lifelong career management.*

## **NACE Career Competencies**

- Career and Self Development
- Communication
- Critical Thinking
- Equity and Inclusion
- Leadership
- Professionalism
- Teamwork
- Technology

(National Association of Colleges and Employers (NACE):

<https://www.naceweb.org/career-readiness/competencies/career-readiness-defined/>)



# CPP Future Career Paths Initiative

**Aims to ensure that CPP students are prepared for the future of work, human & civic engagement** (CPP Strategic Plan, Initiative 3)

**NACE Career Competencies** are already embedded in curricular and co-curricular experiences of students at CPP

- +Presentations in class
- +Written reports
- +Team projects
- +Research
- +Projects using discipline specific technology
- +Alumni networking

Adding **Intentionality** is an impactful and easy improvement

- Calling out career readiness competencies being developed in courses in the [syllabus](#)
- Intentionally embedding [opportunities](#) to gain professional experiences in courses/programs, e.g., signature polytechnic experiences (PolyX) such as undergraduate research & micro-internships

# Future Career Paths

Interested in learning more?

**Contact:**

Office of Academic Innovation

Building 1, Suite 110

[ai@cpp.edu](mailto:ai@cpp.edu)

<https://www.cpp.edu/ai/index.shtml>



# **COLLEGE OF SCIENCE**

## **Strategic Plan 2025**



**CalPoly**  
Pomona

# College of Science

## Our Vision

*Fostering **curiosity** and  
a culture of scientific **discovery***

## Our Mission

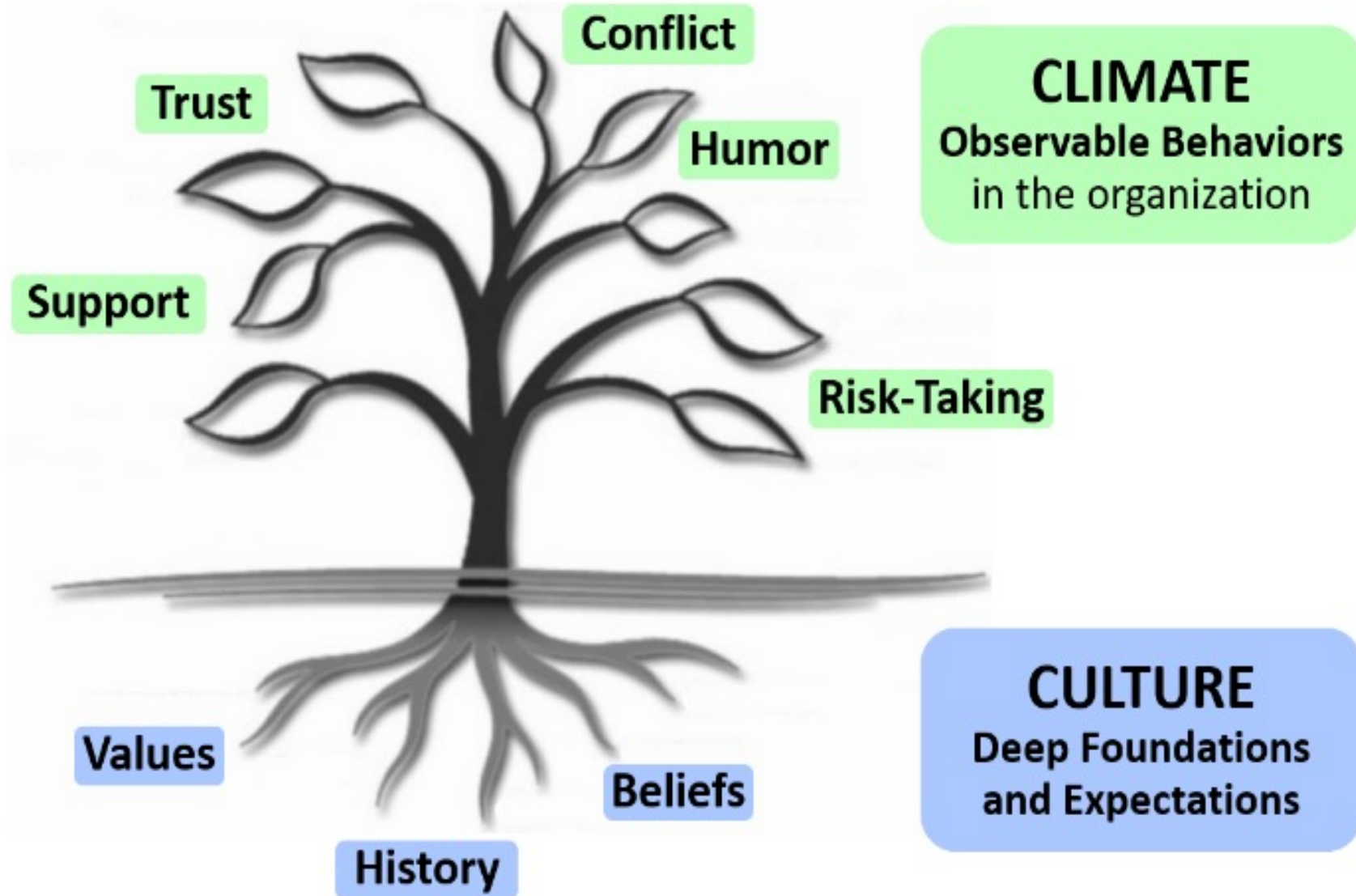
*Educate, mentor, and inspire **students**  
through scientific inquiry and  
hands-on learning*

## Our Values

**CURIOSITY**  
**INTEGRITY**  
**COLLABORATION**  
**INCLUSIVITY**  
**INNOVATION**



# The Courage to Practice





# Strategic Plan Implementation Reboot

*The solutions to the challenges  
we face do not rest in the mind  
of one single person.*

Ed Morrison, Creator of Strategic Doing™

# 2023-24 College Initiatives

## 1. COS Teaching Team

(COS goal #1, University initiative #2)



- Imagine college-level advocacy for teaching best practices, particularly in the STEM disciplines. What would that look like?
- How can we obtain reports each semester to help faculty and chairs better understand and support the progress of their majors?

# 2023-24 College Initiatives

## 2. COS Career Readiness Team

(COS goal #2, University initiative #3)

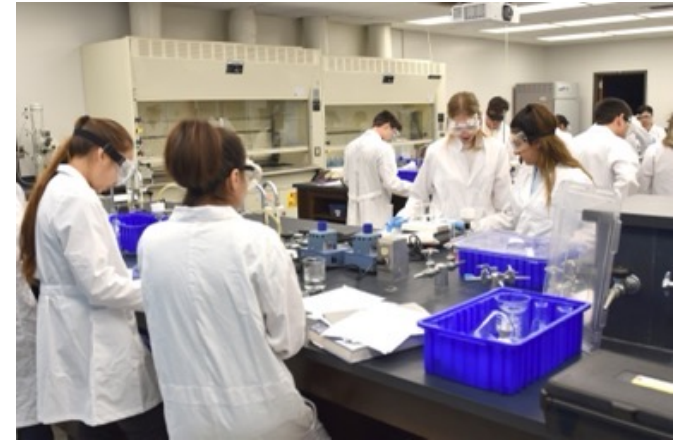


- How can we increase alumni and industry engagement in student-centered events, such as resume and interview skills workshops, and expand internships to better prepare students for graduate school or professional careers?

# 2023-24 College Initiatives

## 3. COS Sustainable Operations Team

(COS goal #5, University initiative #4)



- Imagine a planned approach to address our needs for critical equipment, program investments, and renovations. What would that look like?
- How can we identify and support innovative ways of operating and communicating for greater efficiency and impact?



# Welcome back!

