

CalPoly
Pomona

College of Science

College of Science

2022 Fall Conference

August 23

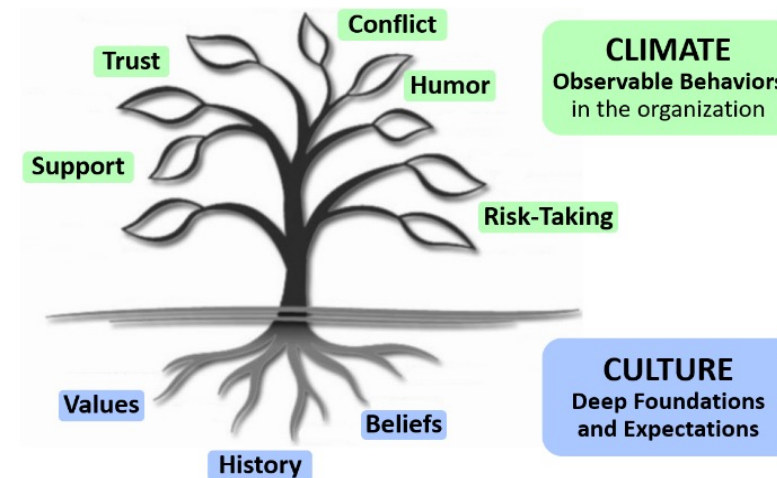


Today's Plan

- 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!



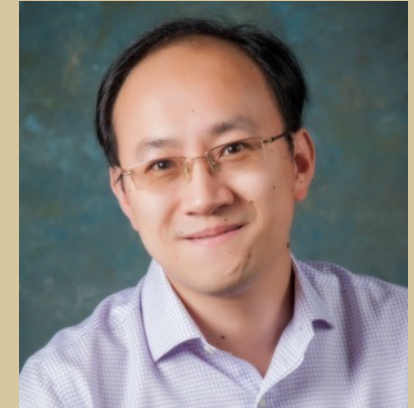
Rachel Blakey
Biological Sciences



Tatiane Soares de Lima
Biological Sciences



Taylor Thane
Chemistry & Biochemistry



Yunsheng Wang
Computer Science



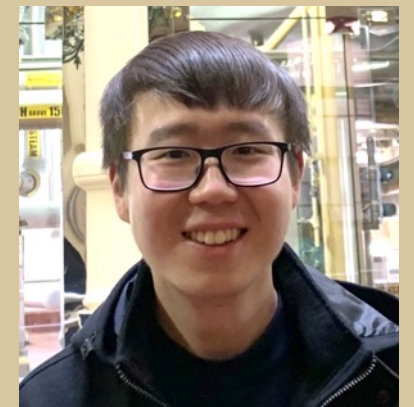
Mingyan (Anna) Xiao
Computer Science



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

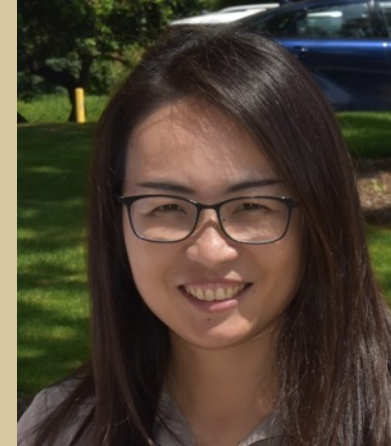
Promotion to Professor



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



Samir Anz

**2022 Outstanding Faculty
Advisor of the Year Award**
Chemistry & Biochemistry



Arlo Caine

2022 College Teaching Award
Mathematics & Statistics



Jayson Smith

2022 College Research Award
Biological Sciences

Congratulations!



Paul Beardsley

**2022 Provost's Award
for Excellence in Teaching**
CEMaST and Biological Sciences



Berit Givens

Wall of COOL Award
Mathematics & Statistics



Janel Ortiz

Wall of COOL Award
CEMaST and Biological Sciences

2022 Staff Awards



Cindy Dang

Administrative Support Coordinator II
Biological Sciences, Fall 2020



Anthony Beachler

Instructional Support Technician III
Biological Sciences, Spring 2020

Congratulations!



CSU Employee Union

Bargaining units 2, 5, 7, 9

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



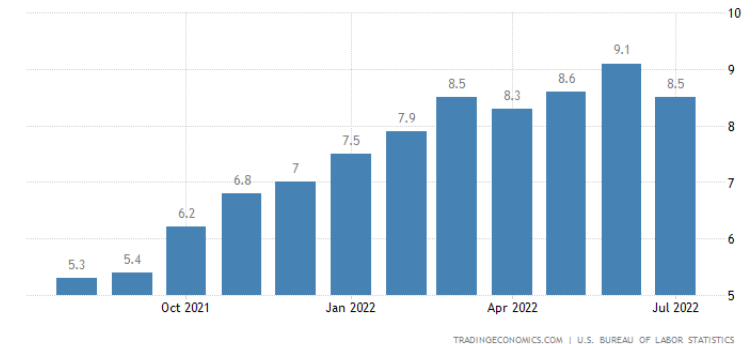
Hector M Maciel
CSUEU Chapter
President

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

CFA Report



- **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>).
 - 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.



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!](#)

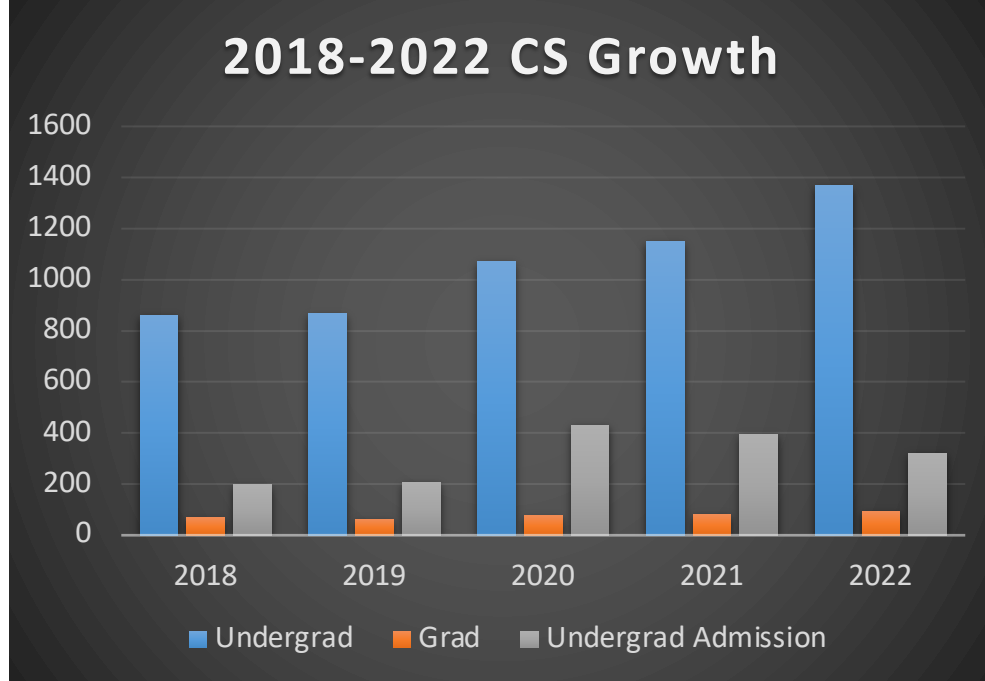


Chemistry and Biochemistry

- 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



Congratulations to Drs. Chen, Amamra, Ji, Steichen

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

(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



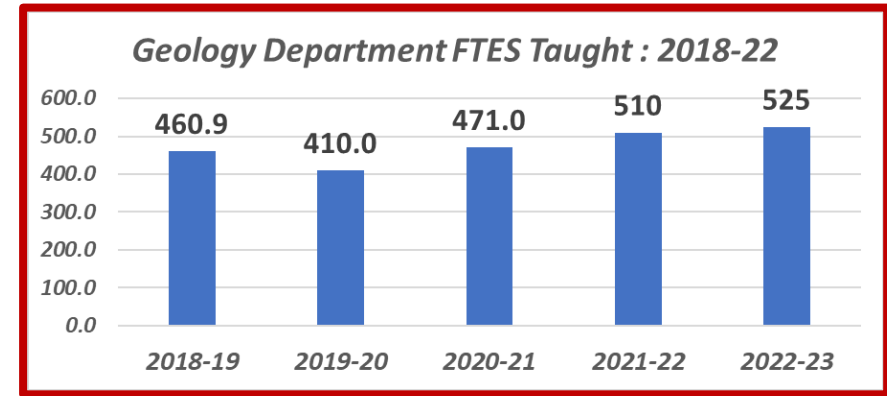
GSC 4910L Non-Virtual Outdoor Lab: Aug 2021

Research Endeavors



Melting rocks to make glass beads for XRF analysis

Enrollment Growth



Job Placement of Geology Alumni



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



GSC 3330L In-Person Exception: Jan 2022



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

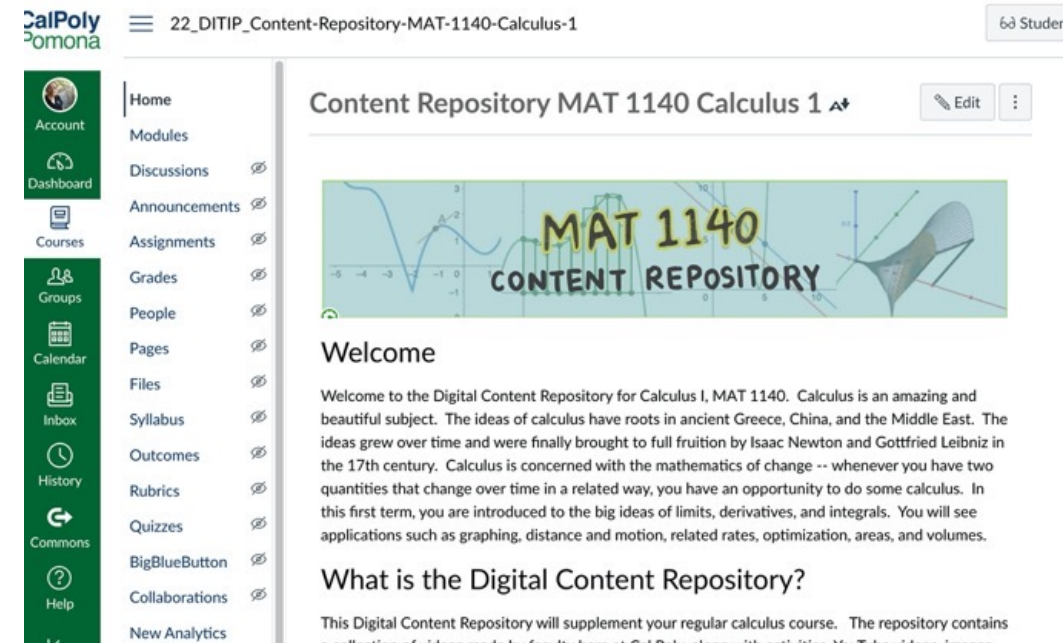
Kinesiology and Health Promotion

- 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



The screenshot shows a Canvas LMS interface for a course titled "22_DITIP_Content-Repository-MAT-1140-Calculus-1". The page is titled "Content Repository MAT 1140 Calculus 1" and features a navigation menu on the left with options like Home, Modules, Discussions, Announcements, Assignments, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, BigBlueButton, Collaborations, and New Analytics. The main content area includes a banner for "MAT 1140 CONTENT REPOSITORY" with a graph and a 3D surface plot. Below the banner is a "Welcome" section with text about the course and a "What is the Digital Content Repository?" section.



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!

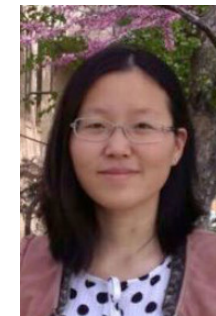
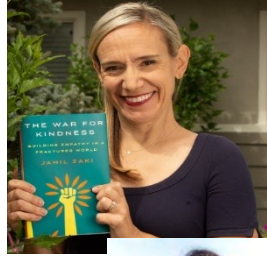
Industry and Alumni

- 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

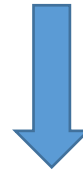
Temporary Changes to Course Modality (up to 1-week)

(as of 8/15/22, subject to change per public health)

Faculty member
positive or
experiencing
symptoms



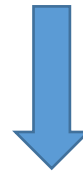
***Can you teach your class virtually or
do you need to take sick leave?***



Take sick leave



Teach class virtually



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



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

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.



**Submit a COVID-19 Self-Report Form
if you have been on campus within
the past 14 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

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.*

Student informs campus via COVID-19 Self-Report Form

Positive Test

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.

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

Experiencing Symptoms

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

Positive Test

Negative test

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

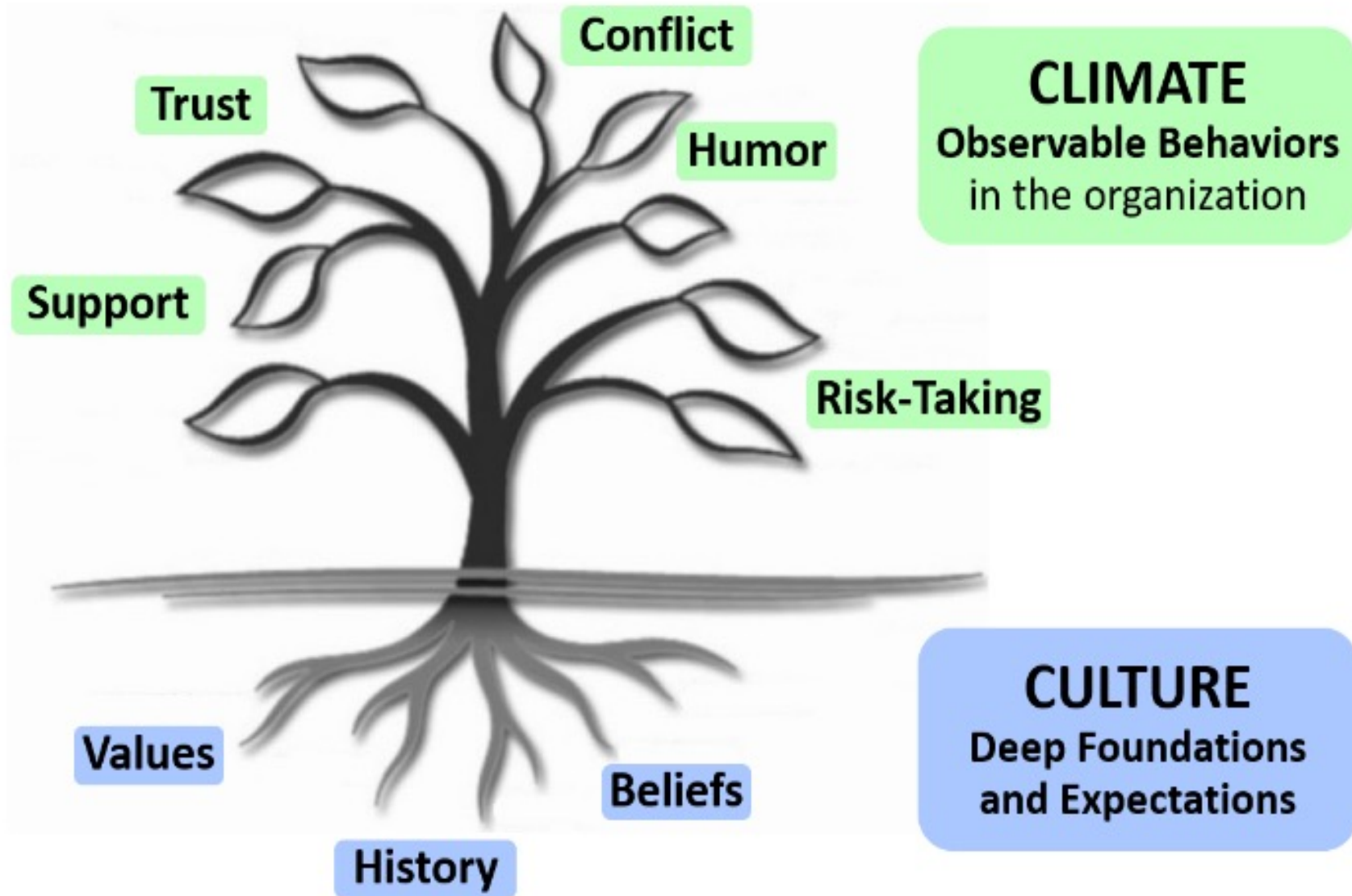
INTEGRITY

COLLABORATION

INCLUSIVITY

INNOVATION

The Courage to Practice



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

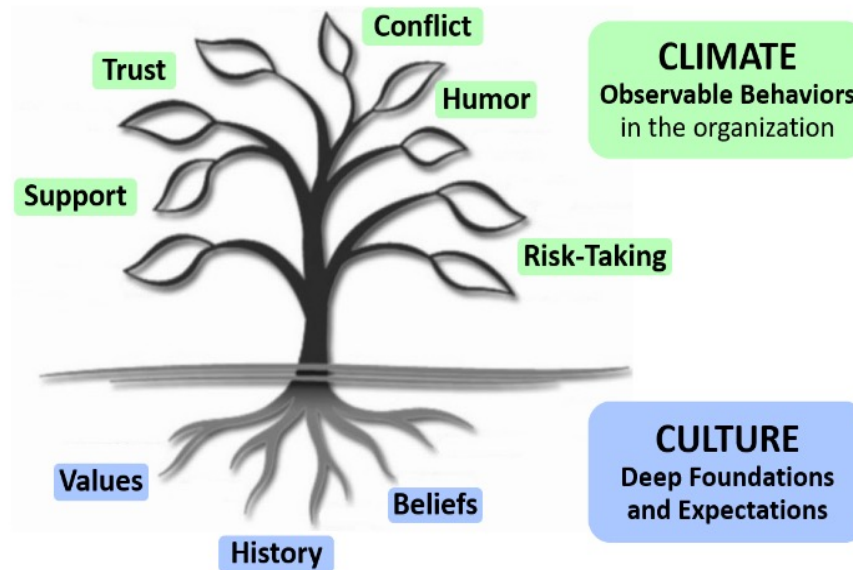
- How to [sustain](#) 2021-2022 successful leadership initiatives
- Use the [CPP STEM Success Network](#), an innovative collaboration across three colleges (Science, Engineering, Agriculture), to maximize student success efforts through sharing best practices for outreach, retention and graduation
- 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.