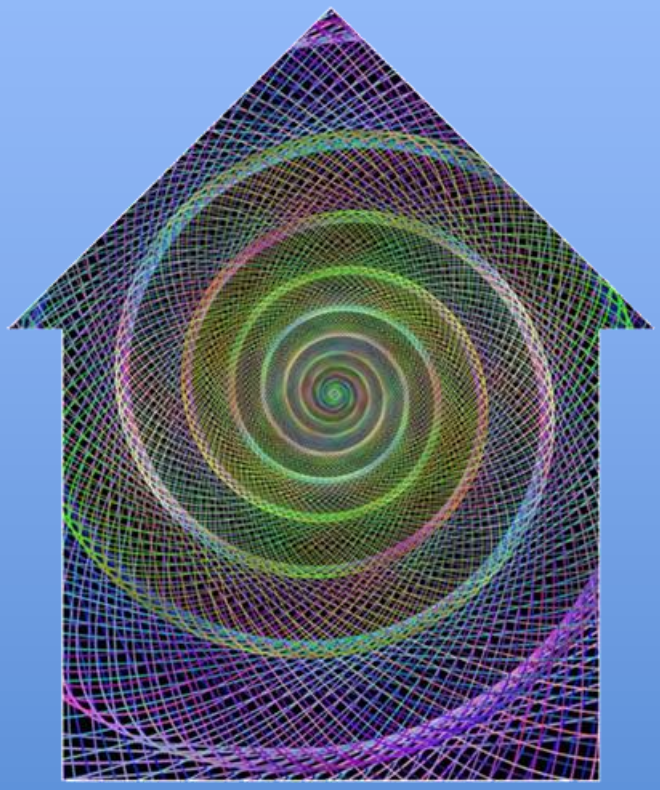
51ST ANNUAL FALL CONFERENCE

California Mathematics Council Community Colleges



I LONG, AS DOES EVERY HUMAN BEING, TO BE AT HOME WHEREVER I FIND MYSELF. - MAYA ANGELOU

Conference Theme: Belonging

DECEMBER 8 - 9, 2023

HYATT REGENCY MONTEREY HOTEL & SPA

MONTEREY, CA

WWW.CMC3.ORG

Friday Keynote		
7 - 9:00 pm	Topic	STEM at a Tipping Point
Regency I-III	Speaker	**Dr. Brigitte Lahme, Dr. Omayra Ortega and Dr. Ben Ford**
	School	Sonoma State University
	Presider	*James Sullivan (CMC3 President)*

Saturday Keynote		
1:15 - 2:15 pm		Dreaming of Mathematics
Regency Main		**Dr. Pamela E. Harris**
		University of Wisconsin-Milwaukee
		Cortney Schultz (CMC3 Conference Chair)

Saturday Sessions		9:00 - 10:00 am	10:30 - 11:30 am	2:30 - 3:30 pm
Regency I (AB1705, AB705 & Advocacy)	Topic	Improving Math Student Success in the New Learning Environment: A Discussion on AB 705 and AB 1705	How Can We Meet the Requirements of AB 1705 (and 705) Without Compromising Student Learning and Achievement?	Mathematicians as Data Leaders Advocating for Long-Term Student Success
	Speaker	Wendy Brill-Wynkoop, Evan Hawkins, Ellen Cesaretti-Monroy	Dustin Bill Acres, Ian Onizuka	Erik Reese, Ginni May
	School	FACCC, FACCC, (Senior Consultant) Assembly Committee on Higher Education	Porterville College	Moorpark College, Sacramento City College, ASCCC affiliates
	Presider	*Cortney Schultz*	*Ana Elizarrarás*	*Leslie Banta*
Regency II (Pedagogy)	Topic	A Few Good Examples: For Introductory Statistics	Sustainability Problems	The Social Construction of Mathematical Difficulty
	Speaker	James Sullivan	Sara Jones	Patrick Morriss
	School	Sierra College	Santa Rosa Junior College	Foothill College
	Presider	*Lisa Nussdorfer*	*Lori Lewis*	*Chantal Cimmiyotti*
Regency III (Technology & Data Science)	Topic	Foundations of Data Science at Community Colleges	**Student Poster Contest**	A.I. Supporting Math Classes for Learning, Not Cheating!
	Speaker	Eric Van Dusen, Kseniya Usovich, Shawn Wiggins		Barbara Illowsky, Peter Relan
	School	UC Berkeley, UC Berkeley, City College San Francisco		De Anza College, YouWeb Incubator
	Presider	*Sonny Mohammadzadeh*		*Ana Elizarrarás*
Regency IV (Equity)	Topic	Mentoring Community College Math Students Through Transfer	Mathematics in Native American Cultures	Bridging Success: The Evolution and Impact of the Puente Math and Science Initiative
	Speaker	Eddie Tchertchian	Leslie Banta	Melva Alvarez
	School	Los Angeles Pierce College	Mendocino College	Puente
	Presider	*Steven Davis*	*Tracey Jackson*	*Shandy Hauk*
Regency V (Calculus & Math Enrichment)	Topic	Supporting Calculus Students Post-AB1705: A data driven pilot at City College of San Francisco	Strategies for Overcoming the Calculus Barrier: An Intersegmental Approach	Indigenous Mathematical Knowledge through AIMC
	Speaker	Katia Fuchs	Larry Green, Frank Bäuerle, Dr. Hongde Hu	Donna Fernandez
	School	City College of San Francisco	Lake Tahoe CC, UC Santa Cruz, CSU Monterey Bay	Alliance of Indigenous Math Circles
	Presider	*Darryl Allen*	*Cheryl Balm*	*Manny Kang*
Regency VI (Math Appreciation)	Topic	Ramanujan's Brainstorming Results	Romancing the Triples	Japanese Puzzle Boxes
	Speaker	Kruti Darji	John Martin	Dean Gooch
	School	Santa Rosa Junior College	Santa Rosa Junior College	Santa Rosa Junior College
	Presider	*Jennifer Long*	*Kirby Bunas*	*John Martin*

CLOSING CEREMONY

4:00 - 5:00 pm

Regency Main Ballroom

Reflections, Teaching Excellence Awards & CMC3 Awards, Future Conference Announcements, Raffle Basket Drawing, Fall 2024 Conference Reveal

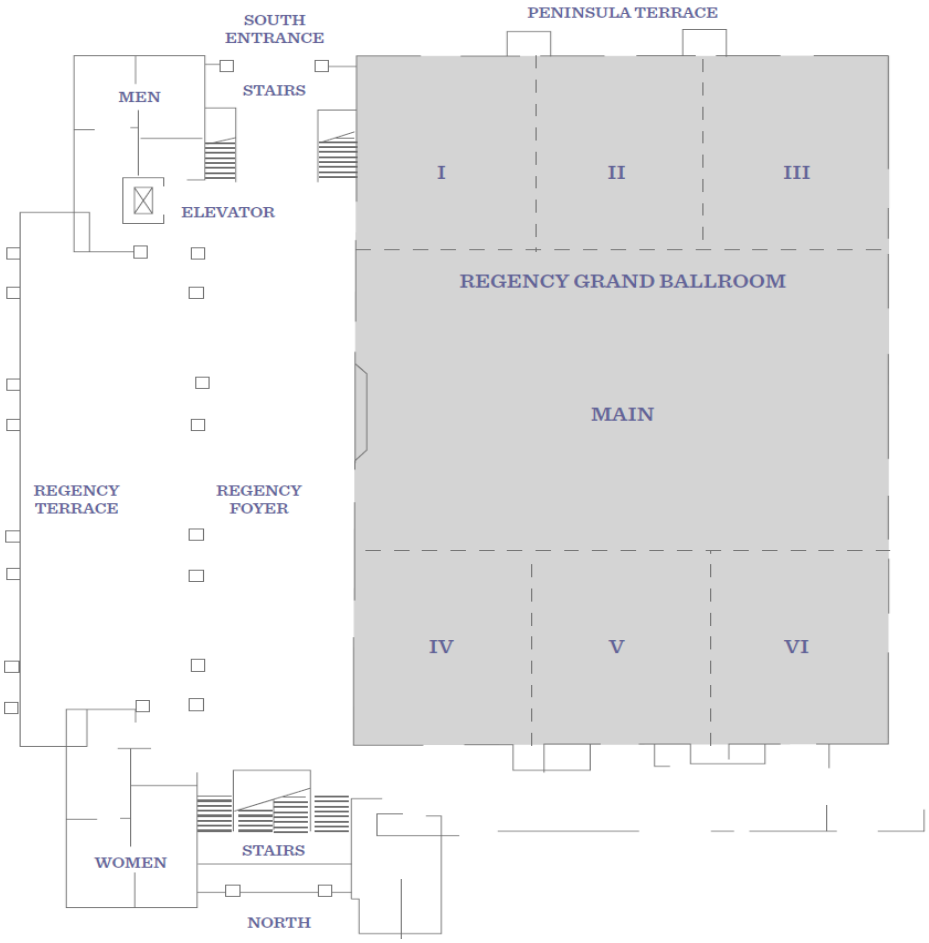
Acknowledgement of Traditional Lands

We currently stand on the ancestral and unceded land of the Ohlone (Costanoan) Rumsen/Rumsien people, a Rumsen-speaking group. Several contemporary tribes, including Esselen, call this land home today. The surrounding Monterey Bay region includes lands traditionally inhabited by the Esselen (to the south), Chalon (to the south), Mutsun (to the north), and Salinan (to the east) groups.

We give thanks for the opportunity to respectfully share in the bounty and beauty of this place. May this land acknowledgement serve as a reminder that we are all interconnected, and that by understanding and honoring the diverse histories and cultures that have shaped this land, we contribute to building a community where each person feels valued and respected.

The Hyatt Regency Monterey

Conference Map - Upper Level



CMC³ Board and Conference Committee	
President:	James Sullivan
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President-Elect	Cortney Schultz
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Fall Conference Chair:	Cortney Schultz
Spring Conference Chair:	Larry Green*
Spring Speaker Chair:	Katia Fuchs
Member at Large:	Manjit Kang
*At-Large Board Members	

Consider Joining the Board!

If you enjoy these conferences and appreciate what CMC³ does for math faculty, please consider becoming a Board member! To ensure that conferences like this continue to run, we need your help. The event organizers are people *just like you* from various community college mathematics departments across Northern California.

We are currently looking to fill the following positions:

- Social Media Coordinator
- Fall Conference Speaker Chair
- Business Liaison
- Treasurer In-Training (to become future Treasurer)
- Secretary

Please consider getting involved with CMC³ by attending a Board meeting, contacting a board member any time, or emailing president@cmc3.org.

Upcoming CMC3 Board Meetings

Conference Wrap-Up Meeting
Sunday, Dec 10th
9AM in room 1232, building L
(ask any Board member for more info)

January Board Meeting
Monday, Jan 22nd
7-8:30PM on Zoom
(email CMC³ president for zoom link)

We welcome your input and participation!

CMC³ Presidents

1973 – 1974	James Curl	Modesto Junior College
1974 – 1977	Raymond Wuco	San Joaquin Delta College
1978 – 1979	Brandon Wheeler	Sacramento City College
1980 – 1981	Hal Andersen	Santa Rosa Junior College
1982 – 1983	Art Dull	Diablo Valley College
1984 – 1985	Pat Boyle	Santa Rosa Junior College
1986 – 1987	Shirley Trembley	Bakersfield College
1988 – 1989	Wade Ellis, Jr.	West Valley College
1990 – 1991	Denny Burzynski	West Valley College
1992 – 1993	Barry Wood	Santa Rosa Junior College
1994 – 1995	Debra Landre	San Joaquin Delta College
1996 – 1997	Chris Burditt	Napa Valley College
1998 – 1999	Michael Eurgubian	Santa Rosa Junior College
2000 – 2001	Lois Yamakoshi	Los Medanos College
2002 – 2003	Randy Taylor	Las Positas College
2004 – 2005	Rick Hough	Skyline College
2006 – 2007	Rob Knight	Evergreen Valley College
2008 – 2009	Larry Green	Lake Tahoe Community College
2010 – 2011	Barbara Illowsky	De Anza College
2012 – 2013	Susanna Gunther	Solano Community College
2014 – 2015	Mark Harbison	Sacramento City College
2016 – 2017	Joseph Conrad	Solano Community College
2018 – 2019	Katia Fuchs	City College of San Francisco
2020 - 2021	Jen Carlin-Goldberg	Santa Rosa Junior College
2022 - 2023	James Sullivan	Sierra College

Past CMC³ President's Awardees (selected by the CMC^3 President)

2002	Barry Wood	Santa Rosa Junior College
2003	Chris Barker	De Anza College
2004	Noelle Eckley	Lassen College
2005	Barbara Illowsky	De Anza College
2005	Zwi Reznik	Fresno City College
2006	Sandi Nieto	Santa Rosa Junior College
2007	Randy Taylor	Las Positas College
2008	Mark Harbison	Sacramento City College
2009	Jim Spencer	Santa Rosa Junior College
2010	Robert Knight	Evergreen Valley College
2011	Larry Green	Lake Tahoe Community College
2012	Michael Eurgubian	Santa Rosa Junior College
2013	Ken Seydel	Skyline College
2014	Rebecca Fouquette	De Anza College
2015	Jay Lehmann	College of San Mateo
2016	Leslie Banta	Mendocino College
2017	Larry Green	Lake Tahoe Community College
2018	James Sullivan	Sierra College
2019	Darryl Allen	Solano Community College
2020	Tracey Jackson	Santa Rosa Junior College
2021	Jay Lehmann	College of San Mateo
2022	Katia Fuchs	City College of San Francisco

Past CMC³ Distinguished Service Awardees

(selected by the CMC³ board)

1992	Ray Wuco	San Joaquin Delta College
1993	Frank Denney	Chabot College
1993	Wade Ellis, Jr.	West Valley College
1993	Brandon Wheeler	Sacramento City College
1994	Patrick Boyle	Santa Rosa Junior College
1994	Arthur Dull	Diablo Valley College
1995	Hal Andersen	Santa Rosa Junior College
1995	Sister Clarice Sparkman	San Jose City College
1996	James Curl	Modesto Junior College
1997	Guy De Primo	City College of San Francisco
1998	Allen Utterback	Cabrillo College
1999	Barry Wood	Santa Rosa Junior College
2000	Denny Burzynski	West Valley College
2001	Chris Burditt	Napa Valley College
2002	Wei Jen Harrison	American River College
2003	Marilyn McBride	Skyline College
2004	Michael Eurgubian	Santa Rosa Junior College
2005	Lois Yamakoshi	Los Medanos College
2006	Debra Landre	San Joaquin Delta College
2007	Dave Johnson	Diablo Valley College
2008	Chris Barker	De Anza College
2009	Rick Hough	Skyline College
2010	Jim Spencer	Santa Rosa Junior College
2011	Randy Taylor	Las Positas College
2012	Cynthia Speed	Mendocino College
2013	Rob Knight	Evergreen Valley College
2014	Barbara Illowsky	De Anza College
2015	Noelle Eckley	Lassen Community College
2016	Debbie VanSickle	Sacramento City College
2017	Susanna Gunther	Solano Community College
2018	Rebecca Fouquette	De Anza College
2019	Marcella Laddon	Carrillo College
2020	Joseph Conrad	Solano Community College
2021	Gregory Daubenmire	Las Positas College
2022	Jenny Freidenreich	Diablo Valley College
2023	Jay Lehmann	College of San Mateo

The *CMC³ Foundation* annually provides scholarships to honor our mathematics and science students. We need your financial help. We rely on your generosity and donations to fund the Scholarship Program, the student poster contest, and student travel stipends.

Please consider donating to the CMC³ Foundation Scholarship Fund. Contributions are tax-deductible, as provided by law.

Our tax ID # is 94-3227552.

Please donate in-person at the Foundation table!
Or donate using PayPal.

Gold Transparency 2023

Candid.

2023 Distinguished Service Award
Jay Lehmann

Jay Lehmann taught for thirty-four years at College of San Mateo, where he received the Shiny Apple Award for excellence in teaching. He participated in grant projects on redesigning an arithmetic course, assessing the effectiveness of teaching, and training faculty to facilitate collaborative learning. At over one-hundred conferences, Jay presented talks on curve fitting and directed-discovery learning. He served as the CMC³ newsletter editor and officiated the Estimation Walk/Run both for twenty years, for which he received two CMC³ President's Awards. A prolific writer, he authored four textbooks, fifteen editions, fifteen instructor resource manuals, and five young-adult novels. Jay retired last May and moved with his wife, Keri, to Napa.

Like us on Facebook and follow us on Twitter and keep up to date with CMC³, our Foundation, regional math conferences and Friday comics.

www.facebook.com/cmc.cubed/ Like

www.twitter.com/CMC3N

Enjoy the conference!

CONFERENCE PROGRAM - FRIDAY

4:30 – 6:30 pm	Registration	Regency Foyer

7:00 - 8:00 pm	Dessert Reception	Regency I - III
8:00 - 9:00 pm	Friday Keynote Presentation	Regency I - III

Friday Night Keynote Presentation

STEM at a Tipping Point

Dr. Brigitte Lahme, Dr. Omayra Ortega, and Dr. Ben Ford

What would it mean for a mathematical sciences department to fully embody "Serving" in its campus's Minority-Serving Institution (MSI) designation? Whom are we serving, who is left on the margins, and what is the department doing to counter prevalent practices in the mathematical sciences that lead to wildly unrepresentative participation?

Over the past three years, Sonoma State STEM (Science, Technology, Engineering, and Mathematics) departments, led by the Department of Mathematics and Statistics, have been engaged in department-wide efforts to change STEM culture and embrace "Serving" in our Hispanic Serving Institution (HSI) designation.

Transformative Inclusion in Post-Secondary STEM: Towards Justice (TIPS Towards Justice) is named in recognition that STEM professional communities have reached a tipping point—putting to rest tired arguments about where the problems lie and who is responsible for addressing them, finally accepting a measure of responsibility for exclusive, dehumanizing practices and identity within our communities.

We maintain that the academic department is the most potent site for reform that can change stubborn inequitable outcomes and fundamentally change students' experiences in higher education. Is your department on the verge of such a shift?

(Pictured left to right: Dr. Ben Ford, Dr. Omayra Ortega, and Dr.Brigitte Lahme)

9:00 pm – 11:00 PM Regency IV

Friday BINGO Night!

Fill your Friday evening with fun, food, and friends! Join us for BINGO night after the Friday keynote speakers. There will be prizes, snacks, and a no-host bar. Catch up with your fellow conference attendees and join in the fun!

CONFERENCE PROGRAM - SATURDAY

7:15 am Estimation Walk/Run Meet by the Hotel Front Desk

On Saturday morning, before the conference presentations begin, everyone is invited to join the Estimation walk/run. You can choose between a 1, 2, or pi miles and before you start, you will submit your estimation of how long it will take you. The winner is not necessarily the person who goes the fastest, but rather the person who finishes at a time closest to their estimate. Participants meet at 7:15 am in the hotel lobby.

8:00 am – 9:30 am Morning Refreshments Regency Foyer

8:15 am – 9:30 am Registration Regency Foyer

8:30 am – 1:00 pm Exhibits open Regency Foyer

2:00 pm – 5:15 pm

CMC³ Needs You!

Because YOU are the lifeblood of CMC³

CMC³ has a long tradition of supporting Community College Math faculty and students. This work cannot be done without you.

We want to hear your voice in our Newsletters, at our Conferences, and in our Board Meetings.

For more information on how you can become involved, please head to:
http://www.cmc3.org
Or contact Cortney Schultz at
cschultz@santarosa.edu

First Session: 9:00 – 10:00 am

Regency I (AB1705, AB705 & Advocacy)

Wendy Brill-Wynkoop	*FACCC*	president@faccc.org
Evan Hawkins	*FACCC*	ehawkins@faccc.org
Ellen Cesaretti-Monroy	*CA Assembly Higher Ed*	

Improving Math Student Success in the New Learning Environment: A Discussion on AB 705 and AB 1705

As AB 705 and AB 1705 implementation continues at our colleges, the positive impacts and unintended consequences are becoming more clear. For math specifically, the policy changes have already resulted in troubling support gaps and a disconnect between the intent of the bill and its implementation. Join FACCC's President, Wendy Brill-Wynkoop, and Assembly Higher Education Committee Senior Consultant Ellen Cesaretti-Monroy, for a refresher on the state legislature's intent of the bill, and an interactive discussion on how the state can provide additional support for math students to improve success in this new learning environment.

Regency II (Pedagogy)

James Sullivan *Sierra College* jsullivan@sierracollege.edu

A Few Good Examples: For Introductory Statistics

If you are interested in incorporating some proven and effective examples into your Introductory Statistics course, then this is the session for you. A veteran instructor will demonstrate and share some examples that students find interesting and engaging. These examples actively involve the students in the learning process and are designed to promote student understanding of important concepts covered in an Introductory Statistics course.

Regency III (Technology & Data Science)

Eric Van Dusen	*UC Berkeley*	ericvd@berkeley.edu
Kseniya Usovich	*UC Berkeley*	
Shawn Wiggins	*City College San Francisco*	

Foundations of Data Science at Community Colleges

This presentation will cover the teaching of Data Science course at California Community Colleges. We will discuss the materials and content for teaching a fundamentals of Data Science Course (Eg Berkeley's Data 8), efforts to coordinate and encourage Data Science education at the statewide level, and hear from CCSF who has been teaching Data 8 for several semesters.

Regency IV (Equity)

Eddie Tchertchian *Los Angeles Pierce College* tchertea@piercecollege.edu

Mentoring Community College Math Students Through Transfer

Most underrepresented minority students in community colleges (CCs) do not take full advantage of great REU opportunities. They do not gain the value of a STEM degree, let alone REUs in their regions or nationwide. Socio-economic status and life hardships these students go through while getting their education is a big part of the problem – many of them work full-time jobs while attending school, support children or other family members, and cannot give up employment or drop other responsibilities for a prolonged period (6-8 weeks) to solely participate in an REU. This is especially true during a global pandemic, as life hardships tend to take over. Additionally, CC faculty's primary focus and responsibilities semester-to-semester are on duties related directly to their teaching assignment. Yet research shows that the earlier students are exposed to REU-type programs, mentorship, and teamwork, the more likely they are to continue on and get a STEM degree. Join us in exploring an approach that has shown great potential in collaboration between CC and four-year university faculty that leads to progress in mentoring CC math students!

First Session: 9:00 – 10:00 am, continued

Regency V (Calculus & Math Enrichment)

Katia Fuchs *City College of San Francisco* efuchs@ccsf.edu

Supporting Calculus Students Post-AB1705
A Data Driven Pilot at City College of San Francisco

As AB1705 implementation is under way, California Community College Math departments are grappling with the "calculus clause" of the law. The clause requires validation of pre-calculus sequences, with the provision that if data is not found to support the need for these, that colleges may no longer enforce Calculus pre-requisites starting in 2025. While there are some distinctions between STEM and non-STEM, CCSF is preparing for the possibility that students will be able to register for Calculus courses without having completed the full Pre-calculus sequence. I will discuss a pilot project that CCSF is launching for Spring 2024 to learn more about student needs in a Calculus environment where prerequisites are no longer enforced. I am also hopeful that audience members will share the experience at their campuses, so the talk can be an educational experience as well.

Regency VI (Math Appreciation)

Kruti Darji *Santa Rosa Junior College* kdarji@santarosa.edu

Ramanujan's Brainstorming Results

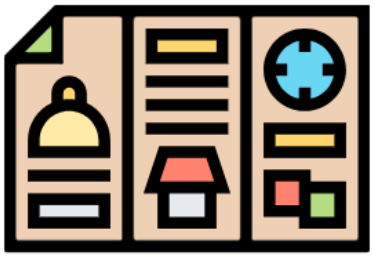
Are you interested to know some of Shrinivas Ramanujan's Results? His contribution to Mathematics leads us to exciting problems to think about. We will see a brief biography with pictures and try to solve surprising results from a notebook of Shrinivas Ramanujan.

Exhibit & Student Poster Reminders

Visit Vendor & Non-Profit Exhibits

8:30 am - 1:00 pm
2:00 pm - 5:15 pm

Regency Foyer



Visit the Student Poster Session

10:30 - 11:30 am

Regency III

Student Posters on Display

11:30 am - 3:30 pm

Regency Foyer

The American Mathematics Association of Two-Year Colleges (AMATYC) will hold their next annual conference in Atlanta, GA on November 14 - 17, 2024.

Conference Theme: *Mathematics on My Mind*

Just Announced, the 2025 AMATYC Conference will be in Reno, NV!

Second Session: 10:30 - 11:30 am

Regency I (AB1705, AB705 & Advocacy)

Dustin Bill Acres *Porterville College* dustin.acres@portervillecollege.edu
Ian Onizuka *Porterville College* ian.onizuka@portervillecollege.edu

How Can We Meet the Requirements of AB 1705 (and 705) Without Compromising Student Learning and Achievement?

Please join us for a discussion on how AB 705 (and 1705) has been implemented at Porterville College in a way that addresses faculty concerns and meets student needs. Porterville College was recognized as 1 of 2 Community College campuses that fully implemented AB 705 in the first year. What has worked? What have we changed? How can we initiate a change at this level at my own campus? All this and more will be addressed with practical research-based answers.

Regency II (Pedagogy)

Sara Jones *Santa Rosa Junior College* sjones@santarosa.edu

Sustainability Problems

This talk will introduce you to some Sustainability Problems and give you ways to access these problems either through MOM or from a Word Document file. We will look at a statistics problem analyzing Air Quality Index (AQI), a finite math question on Recycling and Reuse, and a linear algebra problem on sea turtles.

Second Session: 10:30 - 11:30 am, continued

Regency III (Student Poster Contest)

Moderator: Katia Fuchs *City College of San Francisco* efuchs@ccsf.edu

Student Poster Presentations

In this session, students will present their posters for the Student Poster Contest. Please come and support our students!

Regency IV (Equity)

Leslie Banta *Mendocino College* lbanta@mendocino.edu

Mathematics in Native American Cultures

Are you looking for ways to engage Native American students with mathematics? In this session, we will discuss the speaker's experience creating and teaching a new transfer-level Liberal Arts math course that honors and celebrates math in Native cultures. Whether you are looking to develop a new course, incorporate culturally responsive teaching practices into current courses, or gain new ideas for activities and projects, this session has something you can use.

Regency V (Calculus & Math Enrichment)

Larry Green *Lake Tahoe Community College* drLarryGreen@gmail.com
Frank Bäuerle *UC Santa Cruz* bauerle@ucsc.edu
Dr. Hongde Hu *CSU Monterey Bay* hhu@csumb.edu

Strategies for Overcoming the Calculus Barrier: An Intersegmental Approach

There are four calculus projects that are part of the Grand Challenge funded by the California Education Learning Lab. They are collaborations between CCC, CSU and UC faculty and are meant to address equity gaps in calculus. Our presentation will include a discussion of support for students who need the preparatory mathematics that is necessary to succeed in calculus. This presentation will go over each of these four projects which cover calculus in a variety of student centered ways. The courses include both calculus for life science and the traditional calculus class. All materials produced by these projects are Open Educational Resources (OER) and Zero Textbook Cost (ZTC). As part of the Grand Challenge's Convene Connect Collaborate (C3) team, we are creating a curated and searchable database of assets created by these projects. The database is built out on the LibreTexts platform and will make it easy to access all the material from these projects.

Regency VI (Math Appreciation)

John Martin *Santa Rosa Junior College* jmartin@santarosa.edu

Romancing the Triples

Pythagorean triples have engaged the attention of prominent mathematicians throughout the centuries. In this lecture we will discuss some of these problems and their solutions. We will also examine the construction of an infinite data tree that contains all primitive Pythagorean triples.

Luncheon: 11:45 am - 12:45 pm

11:45 am - 12:45 pm Buffet Regency Main

(Mention to one of the servers if you have special dietary needs not met by the buffet.)

General Session: 12:45 - 2:15 pm

12:45 - 1:15 pm Student Poster Awards Regency Main

(Teaching awards & additional awards will be presented during the closing ceremony)

1:15 - 2:15 pm Saturday Keynote Presentation Regency Main

Saturday Afternoon Keynote Presentation

Dreaming of Mathematics

Dr. Pamela E. Harris

After emigrating to the United States from Mexico at the age of 12, Prof. Pamela Harris completed her high school education in Milwaukee, Wisconsin. In this talk, Prof. Harris tells us her life story, taking us through the fears of being an undocumented first-generation college student and the challenges she overcame as a Latina with a passion for mathematics. Her talk will focus on how she found support networks, mentors, and the development of her identity as a scientist. She will also share how communities can help support underrepresented minorities and undocumented students achieve their full potential as they navigate academic spaces.

(Photo Credit: Akira Harris)

Thank you to our Exhibitors!

CMC³ Foundation Lumen Learning XYZ Textbooks

Thank you to our friends from

FACCC
TODOS
Puente
Alliance of Indigenous Math Circles

for joining us!

2:00 - 5:15 pm Exhibits open Regency Foyer

Third Session: 2:30 - 3:30 pm

Regency I (AB1705, AB705 & Advocacy)

Erik Reese *Moorpark College* ereese@vcccd.edu
Ginni May *Sacramento City College* *mayv@scc.losrios.edu*

Mathematicians as Data Leaders Advocating for Long-Term Student Success

Mathematicians are uniquely positioned to lead data analysis efforts that advance the long-term success of our students. With AB 928 (Berman, 2021) to AB 1111 (Berman, 2021) and AB 1705 (Irwin, 2022), the legislature has been focused on increasing the numbers of degree completers. In particular, STEM degrees are in high demand in California's economy and provide opportunities to high-wage careers. Join presenters from the Academic Senate for California Community Colleges to discuss how faculty, particularly math faculty, can collaborate with our college research professionals to impact the long-term success of our students locally and statewide by critically analyzing student data and helping to increase data literacy of all faculty. How can we leverage a variety of data to provide a more comprehensive view of the complex stories of our diverse students?

Regency II (Pedagogy)

Patrick Morriss *Foothill College* morrisspatrick@foothill.edu

The Social Construction of Mathematical Difficulty

Grounded in the works of Paolo Friere, Rochelle Gutiérrez, Danny B. Martin, Francis Su, Gloria Ladson-Billings, Zaretta Hammond, Frantz Fanon, and others, and informed by thirty years' classroom experience, this seminar will illuminate mathematical difficulty as a social construct. The idea that math is difficult rests on foundational beliefs about mathematics itself, separates people from their mathematical brilliance, establishes a racialized hierarchy of dominance and oppression, enforces that hierarchy through assessment practices steeped in intimidation, and perpetuates itself through the self-interest of those of us who benefit. Ultimately, the construct wraps itself in a powerful exclusionary narrative about the nature of mathematics, its essential position in STEM education, and the kinds of people who can do it.

SPECIAL THANKS TO

- Santa Rosa Junior College for conference mailers and programs
- AMATYC for providing tote bags & swag
- Our Raffle Basket Donors
- Our Conference Passport Prize Donors
- Our Foundation Donors
- Denise Schultz (Cortney's mom) for all of the emotional support and encouragement
- The current Board of CMC³

Third Session: 2:30 - 3:30 pm, continued

Regency III (Technology & Data Science)

Barbara Illowsky *De Anza College (retired)* illowskybarbara@fhda.edu
Peter Relan *YouWeb Incubator* peter@youwebinc.com

A.I. Supporting Math Classes for Learning, Not Cheating!

We've all read about how AI is used by students for cheating. But how about how students can utilize AI for learning? It's true! AI can assist students in learning content without the cheating aspect. Come and learn for yourself… and maybe participate in a Spring paid pilot in College Algebra, Precalculus, or Calculus 1 on how to assist your students with MathGPT.

Regency IV (Equity)

Melva Alvarez *Puente* alvarezmelva@berkeley.edu

Bridging Success: The Evolution and Impact of the Puente Math and Science Initiative

Join us for an engaging presentation where our dedicated team of Math faculty unveils a rich tapestry of professional development initiatives meticulously crafted for community college educators and students. Delving into the heart of our commitment to excellence, we spotlight the transformative journey of the Puente Math and Science (MaS) initiative. Discover the compelling history behind Puente MaS, backed by insightful data that reflects our impact and "cariño" for our community of learners.

Regency V (Calculus & Math Enrichment)

Donna Fernandez *Alliance of Indigenous Math Circles* dfernandez@srcs.k12.ca.us

Indigenous Mathematical Knowledge through AIMC

During this breakout session, you are invited to explore the impact of AIMC's initiative in providing a mathematical lens to inspiring Indigenous traditional and contemporary arts, stories, or ways of knowing. The mission of AIMC extends beyond numbers - this organization aims to build a supportive community among math teachers and foster mathematical excellence within Indigenous communities.

Third Session: 2:30 - 3:30 pm, continued

Regency VI (Math Appreciation)

Dean Gooch *Santa Rosa Junior College* dgooch@santarosa.edu

Japanese Puzzle Boxes

The presenter will briefly discuss his early interest in Japanese puzzle boxes and give a brief history of these boxes. In particular, a specific puzzle box will be discussed that is called "Secret Box 324 Steps." As a COVID impulse buy, I purchased one of these expensive and very intricate boxes and soon figured out how to open it, but I lost count of the required moves in the process of opening the box. I then developed a recurrence relation for the number of steps to open this box and found the solution to the recurrence relation. But my answer and the number given by the maker of the "Secret Box 324 Steps" did not agree. Come to the talk to find out the answer to this mystery and a few other mysteries.

CLOSING CEREMONY: 4:00 – 5:00 pm

4:00 pm – 5:00 pm Closing Ceremony Regency Main

As we wrap up another great conference, we invite each of you to join us for the grand finale – our closing ceremony!

Let's reminisce about insightful sessions, share highlights and takeaways, and celebrate the collective knowledge we've gained.

In addition to reflection, the closing ceremony will include the **Teaching Excellence Awards & CMC³ Awards**, **Spring Conference announcements**, the **Foundation Raffle Basket Drawing**, and **the 2024 Fall Conference Location Reveal!**

6:00pm – Midnight Free shuttle downtown Conference Center Entrance

Spring 2024 CMC³ Online Speaker Series

Since the pandemic, CMC³ has hosted a variety of virtual presentations in the form of an online spring conference. This year, instead of an online conference, we will host a spring speaker series. This series is free for all members of CMC³ and will include presentations covering topics related to recreational math, math-related legislation, and more!

The CMC³ Foundation

The CMC³ Foundation currently awards an average of more than $6,000 in scholarships every year to students and would like to increase those awards!

The Foundation also sponsors a student poster session at the fall conference, and a student speaker competition during the spring speaker series. Such events offer our students an opportunity to earn scholarships and provide them a forum that requires them to engage in public speaking and interact with an audience.

Support the Foundation by joining CMC³, attending our conferences, and donating to our organization.

CMC³ Student Speaker Contest

Each spring the CMC³ Foundation honors one full time California community college student who has investigated a topic or application in mathematics. The selected student will give a 20-minute presentation on their work during the Spring Speaker Series. That student also receives a $500 scholarship!

Recent Student Speaker Scholarship Recipients

2023	Forrest Day	Modesto Junior College	Mentor: Yolande Peterson
2020	Sarah Redden	College of the Sequoias	Mentor: Tracy Redden
2019	Nathanael Case	San Joaquin Delta College	Mentor: Gurmukh Singh
2018	Gabriel Fredericks	Solano Community College	Mentor: Joseph Conrad

CMC³ Foundation Legacy Donors

2018	Debra Landre
2018	Charles & Judith Barnett
2019	Guy DePrimo
2020	Pat McKeague
2021	Wade Ellis
2022	Michael & Lori Eurgubian

Nominate a student for a CMC³ Foundation Scholarship!

Do you have a student you would like to nominate for a scholarship? If you are a member, please do so.
The deadline to submit an application is April 2024.

Please consider donating to the CMC³ Foundation Scholarship Fund.
Contributions are tax-deductible, as provided by law. Our tax ID # is 94-3227552.
Please donate in-person at the Foundation table! Or donate using PayPal.