

# HCTM Newsletter

HAWAII COUNCIL OF TEACHERS OF MATHEMATICS

September 2019

## *from your President . . .*

Aloha HCTM Members,

Welcome to a new school year! It is exciting to know that we are embarking on a new year with new students. I am looking forward to having an awesome school year with the students at my school. Are you? I hope so. I like to think of myself as a person with a growth mindset. With that, I would like to continue to fire those dendrites and value mistakes. The students and I can learn from misconceptions and I would like to model that with students. I plan to help students (and teachers) make connections with the mathematics and better communicate their reasoning. What do you look forward to this year?

It seems like just yesterday I was a new teacher at Ka`ewai Elementary School. (It has been awhile but I still remember.) The teachers on that campus welcomed me with open arms. It is not easy to be a new teacher on campus. Please welcome your new teachers to your campus! This year, I have three brand new teachers at my school. Supporting my teachers throughout the school year is what I intend to do. Extend a helping hand to your new teachers! I am excited for my new teachers as I get to bring them with me to the Hawaii Council Teachers of Mathematics Conference next month.

Looking forward to upcoming HCTM events...Don't forget to register for our annual conference ([hctm.org](http://hctm.org)) that will be at Hawaii Baptist Academy on Saturday, September 14, 2019! Our keynote speaker is the National Council Teachers of Mathematics President, Dr. Robert Q. Berry. We also have a slate of amazing presenters from across the State and from the mainland to present many breakout sessions. See pages 2-3 for more information. We are planning for a Middle School Math Mini-Conference happening on February 22, 2020 at Moanalua Middle School. Keep an eye out for more details in our newsletters and on social media.

We are still looking for some volunteers for the annual conference on September 14th! If you are able to help out, please email me at [stacie.kaichi@k12.hi.us](mailto:stacie.kaichi@k12.hi.us).

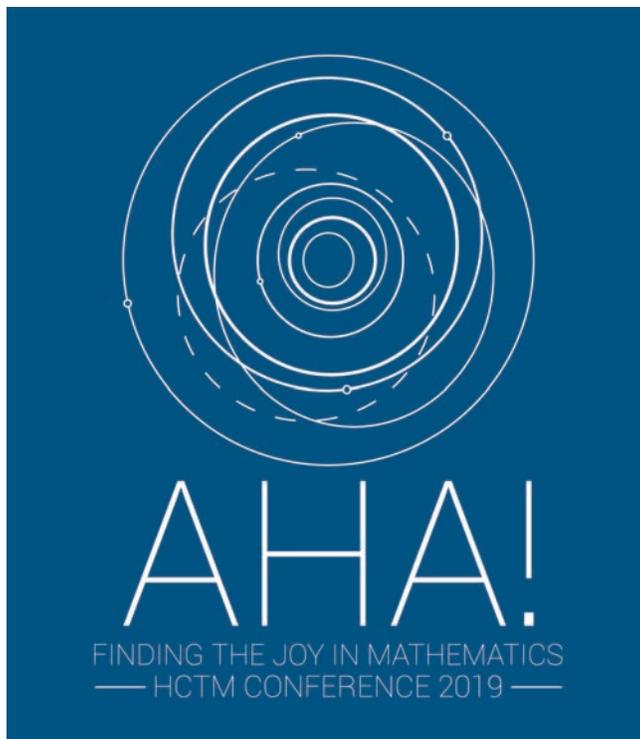
Here's to a great school year! Stay happy, healthy, and keep on learning!

Cheers!  
Stacie Kaichi-Imamura  
HCTM President

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Coming Up

# HCTM Annual Conference



Hosted by:

Hawaii Council of Teachers of Mathematics

and

Hawaii Baptist Academy

2429 Pali Hwy

Honolulu, Hawaii

September 14, 2019

We welcome Robert Q. Berry III as our keynote speaker. Dr. Berry is the President of the National Council of Teachers of Mathematics and a professor in the Curry School of Education at the University of Virginia, where he teaches mathematics methods courses in the teacher education program.



The Hawaii Council of Teachers of Mathematics is a local affiliate of the National Council of Teachers of Mathematics

## Conference Schedule

- 7:30 – 8:15 Registration/Continental Breakfast
- 8:15 – Welcome
- 8:30 – 9:30 Session 1
- 9:35 – 10:30 Poster Sessions and Exhibitors
- 10:35 – 11:35 Session 2
- 11:35 – 12:15 Lunch and Exhibitors
- 12:15 – 1:00 Keynote – Dr. Robert Berry, President NCTM
- 1:10 – 2:10 Session 3
- 2:15 – Raffle Drawing and Closing

## Speaker Sessions

Dahlquist, Kristine	MH	STEM Should Be STEAM: Bringing Art into a Math Classroom
Estrella, Sadie	MH	Whose Classroom is This Anyway?
Galicinao, Phillippe	EMH	Ethnomathematics: Finding Joy in Mathematics Through Challenging, Engaging, and Empowering Culture-Based Lessons
James, Laurie	EM	Secret Mathematical Strategy to WIN at NIM
MacPherson, Glen	H	Three High-quality Physical Mathematics Labs for AP Calculus AB
Manfre, Joseph	EMHPG	Student-Led Heterogeneous Learning Communities
Mangram, Charmaine	EPG	A Crosswalk of a Philosophy for Children Hawaii (p4cHI) Teaching Tool and the Mathematical Practices
Moore, Roxanne co-author	EMHPG	Rehumanizing Mathematics: Finding Joy Through Historical and Cultural Recontextualization
Mukina, Travis	EMP	Where do Those Formulas Come From Anyway?
Nickerson, Rob	E	Stepping Toward Addition and Subtraction Fluency
Nickerson, Rob	E	Strategic Thinking that Develops Multiplication and Division Fluency
Sheeran, Denis	EMHPG	Redefining the 1:1 Math Classroom
Suzuka, Kara	PG	Using Classroom Records of Practice to Develop Mathematics Teaching Practices
Yonashiro, Amy	EMHPG	Curiosity and Grit
Zenigami, Fay	EM	Promote Problem Solving and Skill Building through Games
Yagi, Seanyelle	E	Measurement Concepts Underlying the Number Line

E – elementary, G – general interest, H – high school, M – middle school, P – preservice teachers

NCTM is once again offering our conference attendees a 20% discount on all books being sold on their website at [nctm.org](http://nctm.org) with FREE shipping! HCTM will also get 10% from all online purchases using the code in your conference folder.

# Just Say, “Yes!”

by Alicia Nakamitsu

In December 2018, the Aiea High School Math Department was asked to attend the NCTM Conference in San Diego, fully paid by the school. The ENTIRE Math Department. Initially, we balked at the idea because of the cost and the idea of missing almost a WHOLE WEEK of school...and writing lesson plans! We talked about it as a department and agreed that it was a once in a lifetime opportunity and we could not miss our chance.

Prior to leaving, I researched the location of the San Diego Convention Center and I was in disbelief about the sheer size of the convention center and the idea that the convention would spill over to multiple floors at the Hilton Bayfront Hotel. Then, I heard they were expecting up to 10,000 MATH educators to attend the conference. The program was full of so many amazing sessions that I wanted to attend that I created a spreadsheet just to keep track of my first through fourth choices per time slot! To say the least, I was overwhelmed.



From the first session, I was in awe of the speakers and their wealth of knowledge and experience in math education. I was taking notes feverishly while trying to soak everything in. I attended sessions by genuine rock stars of our field: Jo Boaler, Dan Meyer, Robert Kaplinsky and they were amazing. But equally amazing were presentations by other teachers and professors across the country sharing their experiences with curriculum, instruction, and assessment. They shared countless lesson plans, course syllabi, activities, assessment templates, truly, actionable “take this—try this now” items all with the mindset of improving math education for all of our students.

Every evening, my department would meet to recap what we experienced and everyone felt the same way I did. Everyone had ideas they wanted to implement immediately. Everyone had the same self-reflection: I need to change how I approach teaching. We were all exposed to so many ideas that we wanted to use to engage with our students about the complexity and beauty of mathematics. It was, by far, the most amazing professional development experience in my 18 years of teaching.



It is now almost 2 months since we have returned from the NCTM conference and we are still talking about how we have all been changed by the experience. It was especially powerful due to the fact that almost our entire department travelled together: built friendships over dinner, shared an exciting learning experience together, and came home tired, but full of purpose.

So, now that it's summer, we are meeting to think about how to implement changes from the start of the year. How do we infuse growth mindset, joy, and wonderment into our math classes? At our last department meeting for the school year, we are ready for summer, but we are still fired up and looking forward to starting the new year together. We embrace the change and failing forward as a team. This summer, we will take time to reflect and relax before taking the leap to try something new in August.

I am so grateful to my Administrators at 'Aiea High School who provided this opportunity to me and my department. I feel rejuvenated as a teacher and excited about the possibilities. So, if you get the chance to go, especially with a team of other teachers from your school, say “YES!” without any hesitation. Go with an open mind and enjoy! See you in Chicago!

*NOTE: Alicia shared her thoughts in June.*

Are you making plans to attend NCTM's Centennial Meeting in Chicago in April 2020?

# NCTM Representative Report

by Amy Yonashiro

The NCTM 2019 Annual Meeting and Exposition was held April 3-6 in San Diego, CA. As usual the speakers were engaging and inspiring. In addition to the Opening and Closing Sessions, there were several other talks that are posted on the NCTM website.

- Opening Session – Are We Still Solving for X? The Pedagogical Practices Limiting Student Success in Mathematics (Gloria Ladson-Billings)
- President's Address – Using Our Collective Efficacy to Advocate for Mathematics Teaching and Learning (Robert Q. Berry)
- Past President's Address – Catalyzing Change in High School Mathematics (Matt Larson)
- Shadowcon – 10 minute talks that continue online
- Equity Address – Equity and Agency From Inside the Classroom (Jose Luis Vilson)
- Ignite – 8 mathematics educators give a 5-minute talk using 20 slides that auto-advance every 15 seconds
- Closing Session – A Seat at the Table: Equity and Social Justice in Mathematics Education (Talithia Williams)
- Understanding Resistance in Mathematics Education – Why Change is Hard and How We Can Make it Easier (Michael Flynn)

As the NCTM representative for HCTM, I attend several meetings throughout the week. One of the issues discussed at the Western Affiliates' meeting this year was catalyzing change in PK-12 mathematics: how can NCTM help schools and districts in new curriculum adoptions and in state standards adoptions. This includes not only support and resources when choosing new instructional materials but also giving equity and access to all students. Different math pathways are being created so all students have the opportunity to learn the essential concepts in order to expand their professional opportunities. However, this led to a discussion about the challenges of different math pathways if some pathways deny students the opportunity to go to college. Some of these courses are not recognized by college admission offices. There is a perception among high school counselors and college admissions that students need calculus to get into top-level 4-year universities. The group wondered if there was data to support this? It was agreed that these ideas need to be communicated with key stakeholders – school administrators, school counselors, college admission, college professors, parents, and the public. It was agreed that an NCTM position statement would be helpful. The next day I attended a delegate meeting, which includes affiliates from all regions. Interestingly, this point was raised by other affiliates as well. I will keep an eye out for any response to this recommendation.

Start planning now to join us in Chicago April 1-4, 2020 as NCTM celebrates its 100th year. Registration and housing is open so book now to hold your hotel space. This will be the last annual meeting in the spring. Beginning October 2020 the meetings will be held in the fall:

- October 21-24, 2020 St. Louis, MO
- September 22-25, 2021 Atlanta, GA



***Remember to link your NCTM membership to HCTM. We receive a rebate for each HCTM member who becomes an NCTM member.***



# 808 Math: Island Style

## Kaho‘olawe

### Collaboration

### Problem-solving

### Showcase

Recap and pictures from Keith Ishihara

On June 13, 2019, in conjunction with the Innovative Teachers Engage and Collaborate - Hawai'i Conference, students from nine middle schools from across the state participated in a math challenge centered around a current, real-world problem about Kaho‘olawe. In partnership with the University of Hawai'i Math Department and the Hawai'i Department of Education state math team, and in collaboration with the Kaho‘olawe Island Reserve Commission and Protect Kaho‘olawe ‘Ohana, students experienced interactive expert training and collaborative tasks to problem-solve complex questions around the restoration efforts on Kaho‘olawe. They then presented their recommendations in a showcase at the end of the day.

"The application of math, centered in a sense of purpose, and grounded in an empowering feeling of community was also made possible by the generous support of Hawai'i Council of Teachers of Mathematics, American Mathematical Society, R.M. Towill Corporation, and an anonymous donor," said Hawai'i Department of Education Mathematics Resource Teacher Patricia Ishihara. "Keep an eye out for more math challenges!"





## *Your HCTM Board . . .*

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## *Coming up . . .*

### Middle School Math Mini-Conference

Saturday, February 22, 2020  
Moanalua Middle School  
8:00 AM - 12:00 PM