

2019 SACNAS

The National Diversity in STEM Conference

Hawai'i Convention Center, Honolulu Hawai'i

October 31 — November 2



Hosted by

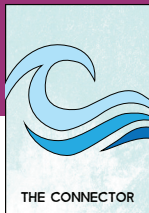


Advancing Chicanos/Hispanics
& Native Americans in Science

Presented by

UNIVERSITY
of HAWAII[®]
SYSTEM





Thank You to Our 2019 Conference Partners

PRESENTING PARTNER



UNIVERSITY
of HAWAII®
SYSTEM

BRONZE PARTNERS



PREMIER PROGRAM PARTNER



SPECIALTY PARTNERS

American Chemical Society
Amgen
Discover Puerto Rico
Genentech
GlaxoSmithKline
Kamehameha Schools
Kavli Foundation

National Geographic Society
National Science Foundation
UC Davis Office of Diversity, Equity, and Inclusion
United States Department of Agriculture
United States Pharmacopeia
University of California, Office of the President
University of Hawai'i at Maui

MEDIA PARTNERS



SACNAS Diversity & Inclusion Statement



Diversity and inclusion are more than just words to SACNAS. They are integral parts of our history, culture, and identity. They are the principles that founded our organization and guide our strategic path forward. We continually seek to build and maintain a culture that reflects the rich diversity of our country. We look for and celebrate diverse voices, experiences, backgrounds, and talents. We believe that an inclusive organization is one where all people feel empowered to be their full, authentic selves. Simply put, everyone is welcome at SACNAS.

See the Conference Code of Conduct on page 30 for more information.

Agenda at a Glance

8:00 AM - 6:00 PM	SACNAS Postdoc Leadership Institute (PLI)	319A
9:00 AM - 5:00 PM	National Geographic Grant Writing Workshop	314
9:00 AM - 6:00 PM	Developing Skills for Advanced Careers Workshop	323C
9:00 AM - 6:00 PM	Galaxy Project: Genomic Data Science Workshop	318AB
9:00 AM - 8:00 PM	Exhibitor Registration	Kamehameha Foyer
11:00 AM - 8:00 PM	Registration / SACNAS Store Día De Los Muertos Ofrenda <i>Presented by University of California, San Diego</i>	Kamehameha Foyer
12:00 PM - 5:00 PM	Expo Hall Move-in	Kamehameha Exhibit Hall
12:00 PM - 5:00 PM	Modern Math Workshop—Day 1	316
12:15 PM - 1:00 PM	Community College Day Check-in and Networking	Pā Kaloka “Charlot Courtyard” 310
1:00 PM - 6:00 PM	Community College Day <i>Presented by University of Hawai‘i</i>	Lili‘u Theater 310
5:00 PM - 6:00 PM	Modern Math Reception	315
6:00 PM - 7:00 PM	Geoscience Community Meet and Greet	304AB
6:00 PM - 7:00 PM	Indigenous Student Meet and Greet	317AB
6:00 PM - 9:00 PM	“Science Fair”—National Geographic Film Screening	313A
6:15 PM - 6:45 PM	University of Hawai‘i Presentation <i>(Invite Only)</i>	Lili‘u Theater 310
6:45 PM - 7:45 PM	University of Hawai‘i Reception <i>(Invite Only)</i>	306AB
7:00 PM - 8:00 PM	Mentor Judges Meeting	312

Agenda at a Glance

7:00 PM - 8:00 PM	Student Presenters and Travel Scholars Orientation <i>Presented by the National Security Agency</i>	Lili'u Theater 310
8:10 PM - 9:10 PM	Student Presenters Coaching	311
THURSDAY, OCTOBER 31		
6:00 AM - 8:00 PM	Registration / SACNAS Store Día De Los Muertos Ofrenda <i>Presented by University of California, San Diego</i>	Kamehameha Foyer
6:30 AM - 8:00 AM	Continental Networking Breakfast+	Roof Top Garden
7:30 AM - 9:15 AM	Expo Hall Move-in	Kamehameha Exhibit Hall
8:00 AM - 8:00 PM	Ka Hale No'ono'o Pono: A Safe, Brave, and Gracious Space for Reflection	308AB
8:00 AM - 8:00 PM	Native/Indigenous Gathering Room	309
8:00 AM - 9:15 AM	Opening Ceremony and Keynote Address* H.E. Hilda Heine, EdD President Republic of the Marshall Islands	Kalākaua Ballroom
9:15 AM - 12:30 PM	Graduate School and Career Expo	Kamehameha Exhibit Hall
9:30 AM - 11:00 AM	Modern Math Workshop—Day 2	316A
10:00 AM - 12:00 PM	Student Poster Presentations 1	Kamehameha Exhibit Hall
10:30 AM - 11:45 AM	Native American and Indigenous Community Welcome	311

+Meals are open to all full-conference registrations. Food is available on a first come, first served basis.

*This event is open to all full-conference registrations. Seating is limited and on a first come, first served basis.

Agenda at a Glance

11:00 AM - 12:00 PM	Highlighted Speaker: Nainoa Thompson President Polynesian Voyaging Society <i>Presented by University of Hawai'i</i>	Lili'u Theater 310
12:00 PM - 1:30 PM	Lunch and Conversations with Scientists+ <i>Presented by Amgen</i>	
	Animal Sciences, Zoology/Entomology, General Biology, and Other Biological Sciences	306AB
	Applied Mathematics, General Mathematics, and Operations Research	315
	Atmospheric Sciences/Meteorology, Earth Sciences, Geology, and Other Physical Sciences	313A
	Biochemistry and Biophysics	323A
	Botany, Forestry, Plant Sciences, and Other Agricultural Sciences	314
	Cell/Molecular Biology, Neuroscience, and Microbiology	311
	Chemistry (Except Biochemistry) and Food Sciences	317AB
	Computer and Information Sciences	318AB
	Discipline-Based Education Research and Traditional Knowledge	304AB
	Ecology and Evolution	316C
	Engineering	316B
	Environmental Science/Studies, Marine Sciences, Oceanography, and Ocean Engineering	313B
	Genetics	312
	Health and Nutrition	324
	Industry	323C

+Meals are open to all full-conference registrations. Food is available on a first come, first served basis.

Agenda at a Glance

	Pharmacology, Physiology, and Pathology	301B
	Physics and Astronomy/Astrophysics	319AB
	Psychology and Social Sciences	323B
	Statistics	313C
1:45 PM - 3:15 PM	Professional Development Sessions	
	'A'ohe pau ka 'ike i ka hālau ho'okahi (All knowledge is not taught in the same school) : Strategies to Develop Place-Based STEA ² M Curricula	313B
	Being Your Authentic Self in Grad School: Community, Advocacy, and Resilience	304AB
	Chapter Session: How to Start a Chapter	302AB
	Creating Citizens Science and Community-Engaged Outreach with Rural and Indigenous Populations	313A
	DACA Networking and Support	312
	Inclusion in STEM Track Come One, Come All: Embracing and Fostering Diversity in STEM	301B
	Maximizing Your Mentoring Relationships	323B
	Navigating the Early Career Path and How to Secure Early Career Funding at NIH	323C
	Networking and Interviewing with Graduate Programs	306AB
	Science Communication Track Utilizing Multimedia Platforms to Communicate Science	301A
	Submitting Competitive Internship Applications	Lili'u Theater 310
1:45 PM - 3:15 PM	Scientific and STEM Symposia	
	Acute and Long-Term Aftermath of Trauma: A Military Perspective	314

Agenda at a Glance

	Ahupua'a: From the Mountains to the Ocean. Desde la Montaña hasta el Océano.	317AB
	Climate Change Track Effects of Climate Change on Pacific Islands, their Indigenous Peoples, and Resources	315
	Exploring Biological Systems with Big Magnets, Radio Waves, and Lasers	316A
	From Statistics to Data Science: Extracting Knowledge from Data	313C
	Indigenous STEM Track Indigenous Scientists: Navigating from the Past into the Future	316C
	NASA Earth Observations and Applications: Connecting Science with Communities	323A
	Opportunities in Actinide Chemistry	324
	Scientific Computing and Data Science	318AB
	Understanding the World Around Us with the Large Hadron Collider (LHC)	319AB
2:00 PM - 5:30 PM	Graduate School and Career Expo	Kamehameha Exhibit Hall
2:00 PM - 5:30 PM	Entrepreneurship and Innovation Hub (Individual Sessions Listed at EIH)	Kamehameha Exhibit Hall
2:00 PM - 3:00 PM	Meet the Candidates for SACNAS President: Pamela Padilla, PhD	SACNAS Booth, Kamehameha Exhibit Hall
4:00 PM - 5:00 PM	Meet the Candidates for SACNAS President: Allyn Kaufmann, PhD	SACNAS Booth, Kamehameha Exhibit Hall
3:30 PM - 5:00 PM	Professional Development Sessions	
	Chapter Session: How to Strengthen Your Relationship with Your Advisor	311
	Exploring Academic Pathways in the Geosciences	301B

Agenda at a Glance

	Funding for Graduate Students and Postdocs: An Introduction to the National Institutes of Health's (NIH) Common Fund (CF) Research Awards and the National Institute of General Medical Sciences Grant Programs	304AB
	Improving Student Success: Culturally Validated Pedagogy and Inclusion in STEM	313A
	<i>Inclusion in STEM Track</i> Identifying and Managing Microaggressions in the Academic Setting	316A
	It Takes All of Us to Keep Us Well!—Engaging in Transdisciplinary and Community-Engaged Research to Reduce Health Disparities in Our Communities	312
	Luna'ikehala: A Framework for Practicing Conscientious Community-Embedded Science	323B
	Mentoring Up: Addressing Diversity and Inclusion in Relationships with your Mentors	Lili'u Theater 310
	National Science Foundation: Promoting Inclusion in STEM Through Research, Capacity Building, and Support	313C
	<i>Science Communication Track</i> Science Communication to Bring Your Whole Self and Your Communities into STEM Spaces	301A
	Study Methods and Scheduling: Preparing for the GRE	323C
3:30 PM - 5:00 PM	Scientific and STEM Symposia	
	Becoming Us: Frameworks of Adaptation and Resilience in the Pacific	318AB

Agenda at a Glance

	<i>Climate Change Track</i> Unmanned Systems Technology: Connecting Science and Engineering to Address Climate Change in the Pacific Islands and U.S. Pacific Coast	324
	Discovering New Physics with Precision Measurements	323A
	Harnessing Ecology and Evolution to Answer Applied Questions in Hawai'i and Beyond	314
	He Ali'i Ka 'Āina, He Kauwā Ke Kānaka: The Integration of Aloha 'Āina Advocacy by Native Hawaiian STEM Scholars <i>Presented by University of Hawai'i, Maui</i>	317AB
	Increasing Understanding of Diverse Scientific Approaches in Designing Therapeutic Solutions	315
	<i>Indigenous STEM Track</i> Maunakea Culture, Community, and Astronomy: Collaborating with Integrity	306AB
	Pacific Islanders in Mathematics	316B
	Postdoc Symposia: Cell/Molecular Biology, Cancer Biology, and Other Life Science	319AB
	Preparing Scientists to Make a Difference: Leadership and Professional Development Training at All Stages	316C
5:00 PM - 7:00 PM	<i>Indigenous STEM Track</i> Talking Story: Our Journeys to Pono Science	308AB
5:45 PM - 7:15 PM	SACNAS Welcome 'Aha 'Āina & Hawaiian Cultural Celebration* <i>Presented by University of Hawai'i, Kamehameha Schools, and Discover Puerto Rico</i>	Roof Top Garden

*This event is open to all full-conference registrations. Rooftop capacity is 2,000 max. Entrance, pupus (appetizers), and beverages are on a first come, first served basis.

Agenda at a Glance

Friday, November 1		
	Breakfast on your own	—
7:00 AM - 8:00 PM	Registration / SACNAS Store Día De Los Muertos Ofrenda <i>Presented by University of California, San Diego</i>	Kamehameha Foyer
7:00 AM - 8:00 PM	Indigenous Marketplace	Ala Hālawai Concourse (3rd Floor)
7:30 AM - 8:45 AM	Breakfast Meet and Greet <i>Presented by GlaxoSmithKline</i>	313C
7:30 AM - 8:45 AM	Friends of the Society and Life Members Breakfast <i>(Invite Only)</i>	315
8:00 AM - 8:00 PM	Ka Hale No'ono'o Pono: A Safe, Brave, and Gracious Space for Reflection	308AB
8:00 AM - 8:00 PM	Native/Indigenous Gathering Room	309
8:45 AM - 1:00 PM	Graduate School and Career Expo	Kamehameha Exhibit Hall
8:45 AM - 10:45 AM	Student Poster Presentations 2	Kamehameha Exhibit Hall
10:30 AM - 12:00 PM	Professional Development Sessions	
	Beyond Excel: Data Visualization with RStudio to Improve Your Posters, Presentations, and Publications	313A
	CIA's Workforce of the Future <i>Presented by the Central Intelligence Agency (Refreshments Provided)</i>	316C
	Don't Panic: The Ultimate Guide to Success in Graduate School	306AB
	Inclusion in STEM Track Out in STEM: Creating a Space for LGBTQ+ Inclusion	301B
	Leading Change	324

Agenda at a Glance

	Making the Right Moves: Navigating Your Path in Academic Science	Lili'u Theater 310
	NSF-Supported Culturally-Rich Strategies for Advancing STEM Learning	323A
	PositiviTEA: How One Diversity Organization Impacted Mental Health Disparities Among Members	312
	Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals	304AB
	Postdoc Symposia: Organic Chemistry, Mathematical Biology, Plant Sciences/ Botany, and Other Engineering	323C
	Postdocs in Industry: An Opportunity to Explore	311
	Science Communication Track Science Communication Strategies for Science Advocacy	301A
10:30 AM - 12:00 PM	Scientific and STEM Symposia	
	Black Holes, Neutron Stars, and Gravitational Waves— The New Era of Multi-Messenger Astronomy	323B
	Climate Change Track Climate Smart Islands: Adapting Island Agriculture and Communities to Climate Change	314
	Data Science for Good	313C
	Exploring Space Science	315
	Indigenous STEM Track Our Genomes, Our Communities, Our Ways: Incorporating Traditional Knowledge and Community Engagement in Genetic Research	309
	It Takes Two to Tango: Stories of The Relentless Evolutionary Battle Between Humans and Pathogens	316A
	Latinxs Count!	316B

Agenda at a Glance

	Natural Products, the Rise of Chemical Biology, and Interdisciplinary Research	317AB
	New Initiatives for Improving Undergraduate STEM Education	319AB
	USGS Response to the 2018 Eruption of Kīlauea Volcano	318AB
11:00 AM - 12:00 PM	Meet the Candidates for SACNAS Board of Directors: David Carreon Bradley, PhD	SACNAS Booth, Kamehameha Exhibit Hall
12:00 PM - 1:00 PM	Lunch in Expo Hall*	Kamehameha Exhibit Hall
12:00 PM - 1:00 PM	Meet the Candidates for SACNAS Board of Directors: Adán Colón-Carmona, PhD	SACNAS Booth, Kamehameha Exhibit Hall
1:00 PM - 2:15 PM	Plenary Session and Featured Speakers* Karletta Chief, PhD Assistant Professor The University of Arizona Pamela Harris, PhD Assistant Professor Williams College Cliff Kapon, PhD Professional Surfer and Postdoctoral Fellow National Science Foundation Danielle Lee, PhD Assistant Professor Southern Illinois University	Kalākaua Ballroom
2:15 PM - 5:00 PM	Graduate School and Career Expo	Kamehameha Exhibit Hall
2:00 PM - 5:30 PM	Entrepreneurship and Innovation Hub (<i>Individual Sessions Listed at EIH</i>)	Kamehameha Exhibit Hall
2:15 PM - 3:15 PM	Meet the Candidates for SACNAS Board of Directors: Juan Arratia, PhD	SACNAS Booth, Kamehameha Exhibit Hall
2:30 PM - 3:45 PM	Graduate Oral Presentations	

+Meals are open to all full-conference registrations. Food is available on a first come, first served basis.

*This event is open to all full-conference registrations. Seating is limited and on a first come, first served basis.

Agenda at a Glance

	Astronomy/Astrophysics and Environmental Science	304AB
	Chemistry: Organic Chemistry, Biochemistry, and Other	323B
	Chemistry: Physical Chemistry	319AB
	Computer and Information Sciences, General Mathematics	301A
	Earth Science, Marine Science, and Other Geoscience	306AB
	Engineering: Mechanical Engineering	301B
	Life Sciences: Biochemistry	316C
	Life Sciences: Cancer Biology	317AB
	Life Sciences: Cell/Molecular Biology	323A
	Life Sciences: Cell/Molecular Biology and Developmental Biology	313A
	Life Sciences: Ecology/Evolutionary Biology	313B
	Life Sciences: Ecology/Evolutionary Biology and Plant Sciences/Botany	313C
	Life Sciences: Genetics and Physiology/Pathology	314
	Life Sciences: Microbiology I	315
	Life Sciences: Microbiology II	316A
	Mathematical Biology and Other Life Sciences	316B
	Professional Fields, STEM Education and Learning, Animal Sciences/Zoology	318AB
	Public Health, Medicine, and Pharmacology	323C
3:30 PM - 4:30 PM	Meet the Candidates for SACNAS Board of Directors: Nazune Menka, JD	SACNAS Booth, Kamehameha Exhibit Hall

Agenda at a Glance

4:00 PM - 5:30 PM	One-on-One Mentoring with a SACNAS Leader: Advice from Faculty and STEM Mentors on Planning for Your Science Career	311
4:00 PM - 5:30 PM	Professional Development Sessions	
	A'o: Alaka'i na kū kahi, a me ho'opili, a laila na hā, ho'okahi i ke kahi <i>(Instruction: First provide guidance and mentoring, and develop a close relationship, then bind, fasten, and knot like a fishnet to form a network, one by one)</i>	324
	Chapter Session: Best Practices	313A
	Exploring Diversity and Career Pathways in Science Policy	323C
	Inclusion in STEM Track Our Stories: A Conversation about Challenges Faced and Advice for Insuring the Inclusion of Underrepresented Women in Science	301B
	Learn and Engage with the University of California System Presented by University of California, Office of the President	313B
	MD-PhD, is it Right for Me?	Lili'u Theater 310
	National Science Foundation Opportunities for Undergraduates, Graduate Students, and Postdocs in the Biological, Geological, Mathematical, and Physical Sciences	304AB
	Native Perspectives in Genomics: Personal Experiences and Professional Pathways into Genomics	306AB
	Science Communication Track Being Yourself Onstage: Personal Storytelling As Part of Your Science Communication Skillset	301A

Agenda at a Glance

4:00 PM - 5:30 PM	Scientific and STEM Symposia	
	BRAIN Initiative Scientific Advances Powered by Diverse Disciplines, Tools, and People	316C
	Cancer Research at the Intersection of Chemistry and Biology	302AB
	Climate Change Track Development of Organisms in a Changing Climate	316B
	Cross-Disciplinary Applications of Data Science	313C
	Indigenous STEM Track Protection of Indigenous Peoples and Lands through the Recognition and Implementation of Traditional Ways of Knowing	319AB
	Learning Through Citizen Science: Enhancing Opportunities by Design	317AB
	Nanomaterials Research: There is Still Room at the Bottom	318AB
	Postdoc Symposia: Neurosciences and Microbiology	323B
	Using Lidar Technology on Tribal Lands: Benefits, Applications, and Cultural Concerns	323A
5:00 PM - 7:00 PM	Indigenous STEM Track Talking Story: Our Journeys to Pono Science	308AB
5:30 PM - 8:00 PM	Expo Hall Move-out	Kamehameha Exhibit Hall
6:00 PM - 7:30 PM	Chapter Awards Ceremony and Reception <i>Presented by the National Security Agency</i>	313A
6:00 PM - 7:30 PM	LGBTQ+ Reception <i>Hosted by SACNAS Executive Director</i>	312
6:30 PM - 8:00 PM	Chemistry Reception <i>Presented by American Chemical Society</i>	314

Agenda at a Glance

6:30 PM - 8:00 PM	Native American and Indigenous Community Reception	316A
6:30 PM - 8:00 PM	Networking Reception <i>Presented by GlaxoSmithKline</i>	315
7:00 PM - 8:30 PM	SACNAS Leadership Alumni Reception (LPSLI, ALI, and PLI Alumni Only)	316C
7:00 PM - 8:30 PM	Women in STEM Reception <i>Presented by Genentech</i>	311
9:00 PM - 11:00PM	The Story Collider <i>Presented by United States Pharmacopeia (Ticketed Event)</i>	Hawaiian Brian's (Offsite)
Saturday, November 2		
6:30 AM - 12:00 PM	Registration / SACNAS Store Día De Los Muertos Ofrenda <i>Presented by University of California, San Diego</i>	Kamehameha Foyer
6:30 AM - 8:00 AM	Continental Networking Breakfast ⁺	Roof Top Garden
7:00 AM - 5:00 PM	Indigenous Marketplace	Ala Hālāwai Concourse (3rd Floor)
8:00 AM - 9:00 AM	Awards Ceremony and Keynote Address* Esteban Burchard, MD, MPH Distinguished Professor University of California, San Francisco	Kalākaua Ballroom
8:00 AM - 8:00 PM	Ka Hale No'ono'o Pono: A Safe, Brave, and Gracious Space for Reflection	308AB
8:00 AM - 8:00 PM	Native/Indigenous Gathering Room	309
9:00 AM - 5:00 PM	Field Trip: A Day of Exploration with National Geographic	HCC Front Drive
9:15 AM - 4:30 PM	Field Trip: Ahupua'a Huaka'i: Tour of a Hawaiian Watershed	HCC Front Drive
9:15 AM - 4:30 PM	Field Trip: National Security Agency	HCC Front Drive
9:15 AM - 5:30 PM	Field Trip: Ecology/Evolution	HCC Front Drive

⁺Meals are open to all full-conference registrations. Food is available on a first come, first served basis.

^{*}This event is open to all full-conference registrations. Seating is limited and on a first come, first served basis.

Agenda at a Glance

9:15 AM - 5:30 PM	Field Trip: UH Manoa Research Highlights	HCC Front Drive
9:15 AM - 6:00 PM	Field Trip: Día de la Física	HCC Front Drive
9:15 AM - 10:45 AM	Professional Development Sessions	
	Broadening the Definition of an Academic Career	311
	Championing Academic Success at a Community College for STEM Minoritized Students, Research, and Practice	306AB
	CIA STEM Professionals Panel <i>Presented by the Central Intelligence Agency</i>	319AB
	Cybersecurity 101 for Critical Infrastructures: A Hands-On Approach	312
	Inclusion in STEM Track Bringing Your Authentic Self to Work	304AB
	Maintaining Gender Authenticity in a Professional Setting	313C
	Peer Mentoring: A High Impact Practice to Support Non-Cognitive Outcomes for Latinx Students in STEM	313A
	Predominantly Undergraduate Institutions, STEM Equity, and You: Strategies for Successful Faculty Applications and Careers	316B
	Science Advocacy: How to Get Involved and Make an Impact	324
	Science Communication Track To Know Science Is to Love It... Or Is It? Research and Evidence-Based Practices for Effective Science Communication	301B
	Training Opportunities at the NIH	301A
9:15 AM - 10:45 AM	Scientific and STEM Symposia	
	Are the Kids Alright?: Tobacco Use Prevention Efforts Between the NIH and FDA	314

Agenda at a Glance

	<i>Climate Change Track</i> Climate Change: Response of Aquatic Invertebrates Living in Four Aquatic Island Communities	315
	Emerging Topics in Diabetes and Metabolism Research	316A
	Genetic History and Its Impact on Cancer Epidemiology Among Latinos	313B
	<i>Indigenous STEM Track</i> Water in the Native World: The Intersection of Traditional Knowledge and Hydrology	317AB
	Interdisciplinary Applications in Engineering—Unmanned Systems: Modeling Systems, Control, Imaging, Navigation, and Coordination	323B
	Mathematical Modeling of Complex Adaptive Systems	316C
	Perspectives on Climate Resilience through Indigenous and Earth Science Collaborations	323A
	Postdoc Symposia: Geoscience and STEM Education & Learning	323C
	Research in University-National Laboratory Collaborations: The Minority Serving Institution Partnership Program	318AB
11:00 AM - 12:30 PM	Professional Development Sessions	
	Chapter Session: How to Fundraise for Your Chapter	324
	Charting a Career in Science or Policy in Federal Government or Non-Profit Agencies	312
	Coming on Board with Evidence-Based Teaching Practices in Biology Classrooms Through the Promoting Active Learning and Mentoring (PALM) Network	313B
	Engaging with Tribal Colleges and Universities	306AB

Agenda at a Glance

	Explaining Your Science in Just 3 Minutes	313C
	Funding Opportunities for Graduate School and Beyond	304AB
	<i>Inclusion in STEM Track</i> Diversity and Inclusion in STEM: Winning Strategies and Attitudes for Success	301B
	<i>Science Communication Track</i> If Not Now, Then When?: Strategies for Effective SciComm in a Changing Climate	301A
	The Impact of LSAMP: Meeting a Nation's Call for Diversity in STEM Careers	311
	Transitioning from Your Undergraduate to Graduate Career	313A
11:00 AM - 12:30 PM	Scientific and STEM Symposia	
	Advancement of Equity and Access in STEM Education for Rural and Tribal Communities: Intergenerational Approaches to Culturally-Responsive Program Development	315
	<i>Climate Change Track</i> Multidisciplinary Assessment of Climate Change in Arctic and Antarctic Regions	318AB
	Enhancing Math Education Through Wet-Lab Experiments	316A
	Improving Multi-omic and Community Engagement Approaches for Rheumatoid Arthritis with Indigenous Communities	316B
	<i>Indigenous STEM Track</i> The Alaskan Arctic: Integrating Iñupiat Knowledge and Culture with Western Science Education and Research Practices	323B
	Lawe i ka Ma'alea a Kū'ono'ono: The Application of 'ike Ku'una to the Reclamation of Cultural Identity <i>Presented by University of Hawai'i, Maui</i>	317AB
	Machine Learning and Distributed Systems: Our Common Future	316C

Agenda at a Glance

	Model Systems to Better Understand Human Health Challenges	319AB
	Nano: It's a Big Deal!	314
	Research and Successful Collaborations of Mothers in Mathematical Biology	323A
11:00 AM - 12:30 PM	Developing Skills for Advanced Careers Workshop Debrief	323C
12:30 PM - 1:30 PM	Networking Lunch*	Ala Hālāwai Concourse (3rd Floor)
1:30 PM - 2:45 PM	Closing Ceremony and Keynote Address* Pualani Kanaka'ole-Kanahele, PhD Past President Edith Kanaka'ole Foundation	Kalākaua Ballroom
2:45 PM - 4:45 PM	Indigenous STEM Track Talking Story: Our Journeys to Pono Science	308AB
3:00 PM - 5:00 PM	SACNAS Film Festival	
	Featured Shorts	313A
	Secrets of the Universe <i>Presented by UC Davis Office of Diversity, Equity, and Inclusion</i>	Lili'u Theater 310
3:00 PM - 6:00 PM	SACNAS Postdoc Leadership Institute (PLI)	319A
3:00 PM - 6:30 PM	Myers-Briggs Personality Types, Self-Assessment, and Career Planning with Individual Development Plans	311
3:00 PM - 6:45 PM	GEM Getting Ready For Advanced Degrees (GRAD) Lab	315
7:00 PM - 9:00 PM	SACNAS Annual Pow Wow† <i>Presented by University of California, San Diego</i>	Roof Top Garden

+Meals are open to all full-conference registrations. Food is available on a first come, first served basis.

*This event is open to all full-conference registrations. Seating is limited and on a first come, first served basis.

†This event is open to all conference attendees and the general public. Rooftop capacity is 2,000 max. Entrance is available on a first come, first served basis.

Agenda at a Glance

CLIMATE CHANGE TRACK

Thursday, October 31

1:45 PM - 3:15 PM	Effects of Climate Change on Pacific Islands, their Indigenous Peoples, and Resources	315
3:30 PM - 5:00 PM	Unmanned Systems Technology: Connecting Science and Engineering to Address Climate Change in the Pacific Islands and U.S. Pacific Coast	324

Friday, November 1

10:30 AM - 12:00 PM	Climate Smart Islands: Adapting Island Agriculture and Communities to Climate Change	314
4:00 PM - 5:30 PM	Development of Organisms in a Changing Climate	316B

Saturday, November 2

9:15 AM - 10:45 AM	Climate Change: Response of Aquatic Invertebrates Living in Four Aquatic Island Communities	315
11:00 AM - 12:30 PM	Multidisciplinary Assessment of Climate Change in Arctic and Antarctic Regions	318AB

INCLUSION IN STEM TRACK

Thursday, October 31

1:45 PM - 3:15 PM	Come One, Come All: Embracing and Fostering Diversity in STEM	301B
3:30 PM - 5:00 PM	Identifying and Managing Microaggressions in the Academic Setting	316A

Friday, November 1

10:30 AM - 12:00 PM	Out in STEM: Creating a Space for LGBTQ+ Inclusion	301B
---------------------	--	------

Agenda at a Glance

4:00 PM - 5:30 PM	Our Stories: A Conversation about Challenges Faced and Advice for Insuring the Inclusion of Underrepresented Women in Science	301B
Saturday, November 2		
9:15 AM - 10:45 AM	Bringing Your Authentic Self to Work	304AB
11:00 AM - 12:30 PM	Diversity and Inclusion in STEM: Winning Strategies and Attitudes for Success	301B

INDIGENOUS STEM TRACK		
Thursday, October 31		
1:45 PM - 3:15 PM	Indigenous Scientists: Navigating from the Past into the Future	316C
3:30 PM - 5:00 PM	Maunakea Culture, Community, and Astronomy: Collaborating with Integrity	306AB
5:00 PM - 7:00 PM	Talking Story: Our Journeys to Pono Science	308AB
Friday, November 1		
10:30 AM - 12:00 PM	Our Genomes, Our Communities, Our Ways: Incorporating Traditional Knowledge and Community Engagement in Genetic Research	309
4:00 PM - 5:30 PM	Protection of Indigenous Peoples and Lands through the Recognition and Implementation of Traditional Ways of Knowing	319AB
5:00 PM - 7:00 PM	Talking Story: Our Journeys to Pono Science	308AB

Agenda at a Glance

Saturday, November 2		
9:15 AM - 10:45 AM	Water in the Native World: The Intersection of Traditional Knowledge and Hydrology	317AB
11:00 AM - 12:30 PM	The Alaskan Arctic: Integrating Iñupiat Knowledge and Culture with Western Science Education and Research Practices	323B
2:45 PM - 4:45 PM	Talking Story: Our Journeys to Pono Science	308AB

SCIENCE COMMUNICATION TRACK		
Thursday, October 31		
1:45 PM - 3:15 PM	Utilizing Multimedia Platforms to Communicate Science	301A
3:30 PM - 5:00 PM	Science Communication to Bring Your Whole Self and Your Communities Into STEM Spaces	301A
Friday, November 1		
10:30 AM - 12:00 PM	Science Communication Strategies for Science Advocacy	301A
4:00 PM - 5:30 PM	Being Yourself Onstage: Personal Storytelling As Part of Your Science Communication Skillset	301A
Saturday, November 2		
9:15 AM - 10:45 AM	To Know Science Is to Love It... Or Is It? Research and Evidence-Based Practices for Effective Science Communication	301B
11:00 AM - 12:30 PM	If Not Now, Then When?: Strategies for Effective SciComm in a Changing Climate	301A

Hawai'i Convention Center 1st Floor

1st Floor

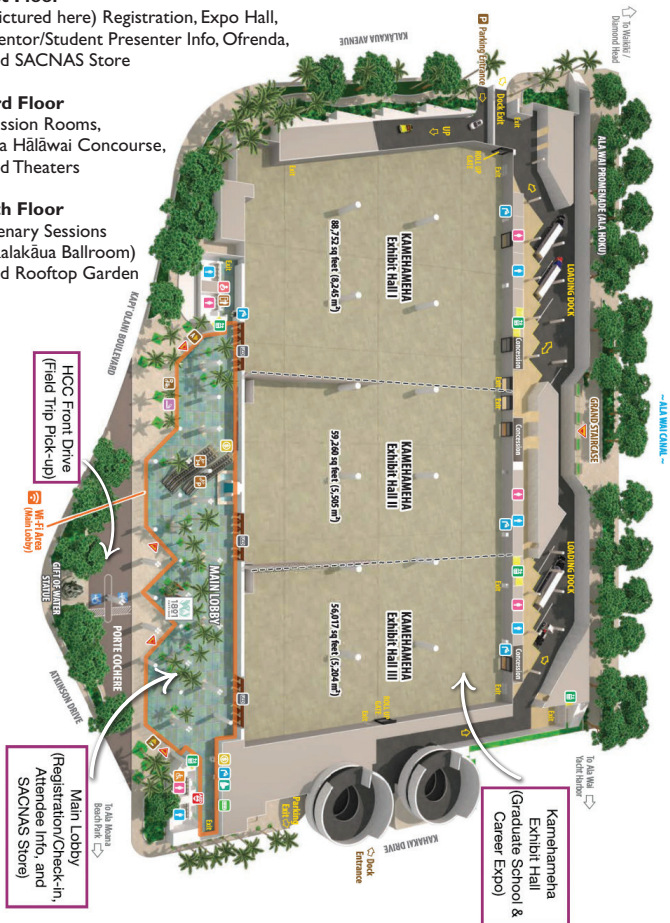
(Pictured here) Registration, Expo Hall,
Mentor/Student Presenter Info, Ofrenda,
and SACNAS Store

3rd Floor

Session Rooms,
Ala Hālāwai Concourse,
and Theaters

4th Floor

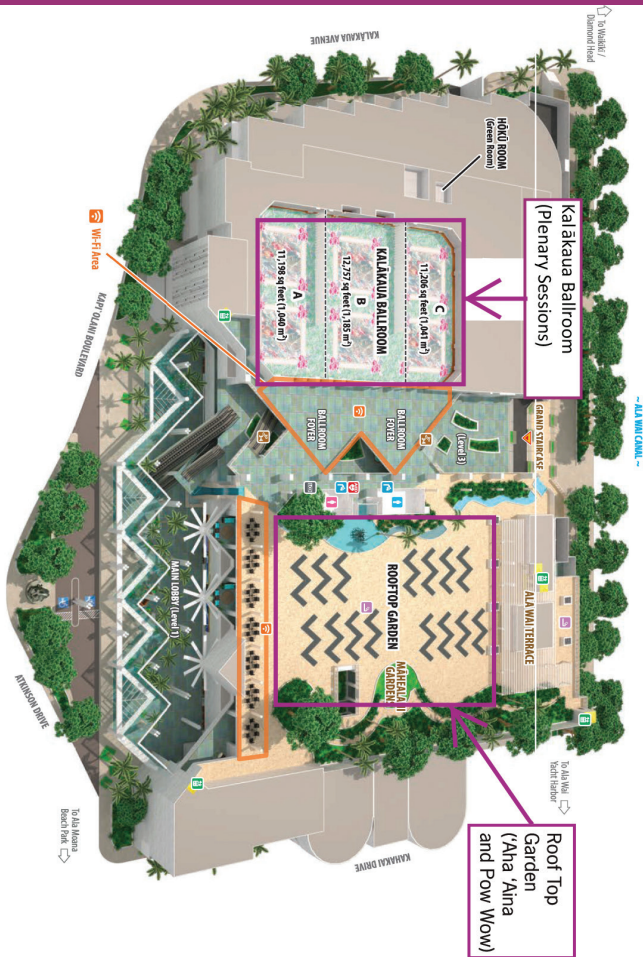
Plenary Sessions (Kalakāua Ballroom) and Rooftop Garden



Hawai'i Convention Center 3rd Floor



Hawai'i Convention Center 4th Floor





THE BOARD OF
DIRECTORS

SACNAS Board of Directors

SACNAS Board of Directors provide top-level leadership for our organization — and they want to get to know you! Feel free to introduce yourself to these Board Members during the conference. Visit our mobile app and click the “#SACNASboard” icon for more information about where to find them during the conference.

Board Officers



Sonia Zárate, PhD
President

Program Officer for Undergraduate
and Graduate Science Education
Howard Hughes Medical Institute

🐦 @sonia_zarate
📷 @doctorz333



Lino Gonzalez, PhD
Past-President

Senior Scientist
23andMe, Inc.



Corey Garza, PhD
Secretary

Associate Professor of Marine Science
California State University,
Monterey Bay

🐦 @profcgarza

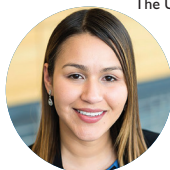


Patricia Silveyra, PhD
Treasurer

Associate Professor, Director of the Biobehavioral
Laboratory, and Beerstecher-Blackwell
Distinguished Term Scholar

The University of North Carolina at Chapel Hill

🐦 @patosilveyra



Ana Gabriela Vergara
Pharmaceutical Sciences PhD Candidate
Washington State University
🐦 @anagvergara14

Board Members



Daniela Flores
Graduate Student
Iowa State University

SACNAS Board of Directors

Board Members



Diana Azurdia, PhD

Associate Director for Inclusion
and Recruitment
University of California, Los Angeles

🐦 @Dr_DianaAzurdia
📷 @ironhoney



Monica Ramirez Basco, PhD

Adjunct Associate Professor
University of Texas
Southwestern Medical Center
at Dallas



David Burgess, PhD

Professor
Boston College



Healani Chang, DrPH

Program Director, Research Associate,
Specialist Faculty
University of Hawai'i at Manoa



Martha Dávila-García, PhD

Associate Professor
Howard University



Roberta Pokphanh, PhD

Assistant Vice Provost
International Programs
University of Kansas
🐦 @RPokphanh



Corey Welch, PhD

Program Director, STEM Scholars
Program, Ecology/Evolution
Iowa State University

🐦 @CoreyWelch_STEM

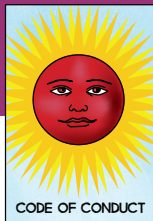


John D. Winnett

Executive Director
Ex-Officio
Washington, DC

🐦 @WINNETT_STEM

Conference CODE OF CONDUCT



SACNAS believes in a conference environment that is inclusive, supportive, and free from any forms of harassment or discrimination. SACNAS values and respects the rights and privileges of others and asks that you honor its mission and vision through compliance with The National Diversity in STEM Conference Code of Conduct, as defined:

- The conference is dedicated to providing a harassment-free conference experience for everyone, regardless of gender, gender identity and expression, age, sexual orientation, physical or mental disability, physical appearance, body size, race, national origin or ancestry, ethnicity, religion (including the lack thereof or religious dress and grooming), marital status, domestic partnership status, military or veteran status, or any other basis protected by federal, state, or local laws.)
- The conference promotes both professional development and personal growth. Therefore, any harassment, microaggression, intimidation, and/or insinuating behavior will not be tolerated.
- The conference upholds an illegal drug- and smoke-free atmosphere for all conference events.
- The conference upholds an alcohol-free atmosphere for conference programming.

What to Do About Inappropriate Behavior

If you witness or are subjected to inappropriate behavior or have any other concerns, notify a SACNAS staff member as soon as possible. If you cannot find a SACNAS staff member close by, please visit the registration booth or the SACNAS expo booth and ask for a SACNAS leadership team member.

For full conference policies, scan here



or visit 2019sacnas.org > attendees > code of conduct

Join the conversation — #2019SACNAS



Wifi Access

Network: 2019SACNAS

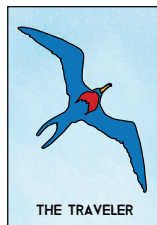
Password: 2019sacnas



Conference App

Find detailed agenda, exhibitor listings, speaker biographies, and more!

Scan the QR code to the left or visit 2019sacnas.org/ app to download.



Play Lotería!

Lotería is a 'bingo' style game which will take place on social media throughout the #2019SACNAS conference. Players who complete all lotería challenges will be entered into a raffle for a FREE 2020 SACNAS conference registration & other fun prizes!

Download the Conference App and click the "Lotería" icon to start playing!



Twitter

[@sacnas](https://twitter.com/SACNAS)



Medium

medium.com/stem-and-culture-chronicle



Facebook

facebook.com/SACNAS



Instagram

[@sacnas](https://instagram.com/sacnas)



LinkedIn

linkedin.com/company/sacnas



YouTube

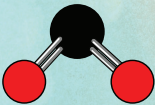
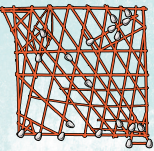
youtube.com/sacnas



Snapchat

snapchat.com/add/sacnas

SACNAS Lotería

 THE CHAMPION	 THE CONNECTOR	 THE COMMUNICATOR	 THE CONVERSATION
 THE CELEBRATION	 THE OFFSETTER	 THE SACNISTA	 THE PLANNER
 THE SCHOLAR	 THE MENTOR	 THE ATTENDEE	 THE AGENDA

Download the Conference App and
click the “Lotería” icon to start playing!



PLEASE NOTE: All attendees will receive a printed pocket guide when they check in on-site. If you plan on printing the pocket guide on your own, please consider printing double-sided to conserve paper.

Version updated 10/24/2019.

Save the Date

2020 SACNAS

The National Diversity in STEM Conference



October 22 – 24 · Long Beach, CA
Join us at 2020sacnas.org