

# 2017 SACNAS

The National Diversity in STEM Conference



**Salt Palace Convention Center**  
**October 19-21, 2017**

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# Agenda at a Glance

## THURSDAY, OCTOBER 19

7:00 AM - 8:00 PM	Registration Open	South Concourse
7:00 AM - 8:00 PM	Tech Alley	Upper Concourse
7:00 AM - 4:30 PM	Exhibitor Registration	South Concourse
7:30 AM - 8:30 AM	Mentor Judges Orientation and Breakfast	Ballroom B
7:30 AM - 8:30 AM	New Student Presenters Orientation and Breakfast	Ballroom F, H & J
7:30 AM - 9:00 AM	Exhibit Hall Move-In	Exhibit Hall C/D/E
8:00 AM - 8:30 AM	Field Trip Logistics Meetings: Día de la Física / Day of Physics	255 F
8:00 AM - 8:30 AM	Field Trip Logistics Meetings: Ecology and Evolution	255 E
8:00 AM - 8:30 AM	Field Trip Logistics Meetings: University of Utah	255 D
8:00 AM - 8:30 AM	Field Trip Logistics Meetings: Utah State University	255 C
8:00 AM - 12:00 PM	Resume Build Room - Sponsored by the <b>Department of Energy (DOE)</b>	252
8:00 AM - 8:00 PM	Native American Gathering Room - Sponsored by the <b>Central Intelligence Agency (CIA)</b>	251 A & D
8:00 AM - 8:00 PM	Indigenous Marketplace	Hallway outside Exhibit Hall
<b>8:45 AM - 10:15 AM</b>	<b>Professional Development Sessions</b>	
	An Act of Translation: Transferring Your Research Skills into Something Meaningful to Society	151 A-G
	Careers in Industry	Ballroom G
	Community College Was Vital for My Career: The Voyage from Community College to STEM Professional and Transitions Along the Way	251 F
	Connecting Science Based Knowledge about the Health Benefits of Native American Traditional Foods Via Community Based Learning Methods	250 F

# Agenda at a Glance

	Developing Student Leadership Competencies: Sample Session from the Chapter Leadership Institute	254 B
	Dialog: The Life and Times of Underrepresented Women in STEM	250 A-C
	Funding Opportunities for Graduate School and Beyond	Ballroom C
	Genomic Health Policy and Ethical Implications of Research with Indigenous Communities and Other Underrepresented Populations	Ballroom E
	Geoscience Careers: Academic, Industry, Government, and Non-Profit Opportunities	250 D
	How Are Grants Reviewed at the National Institutes of Health?	Ballroom I
	MD-PhD, Is It Right for Me?	Ballroom A
	NASA in Indian Country – Looking Back at the Results of the Recent three-year Cooperative Agreements between NASA and Tribal Colleges and Universities	255 A
	Personal Brand Building: Defining Your Purpose and Promise; Advancing Your Career	150 D-G
	Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals	251 E
	Why Didn't I Get in? Demystifying the Selection Process for Summer Research and Graduate School	255 B
8:45 AM - 10:15 AM	<b>Scientific Symposia Sessions</b>	
	The Long Journey Home: Ecology and Evolution in the City	251 B-C

# Agenda at a Glance

	The Strong Heart Family Study: Community Based Participatory Research (CBPR) and the Translation of Indigenous Genomic Studies for Community Benefit	250 E
9:00 AM - 12:00 PM	Modern Math Workshop Day 2	150 A-C
9:30 AM - 12:00 PM	Exhibit Hall Open	Exhibit Halls C/D/E
10:30 AM - 12:00 PM	Getting Involved in SACNAS Leadership: Board of Directors and Committees	250 A-C
10:30 AM - 12:00 PM	Insights to Success: Real-Life Adventures of SACNAS Scientists - Sponsored by the <b>National Security Agency (NSA)</b>	Ballroom C
10:30 AM - 12:00 PM	Native American Welcome - Sponsored by the <b>Central Intelligence Agency (CIA)</b>	Ballroom G
10:30 AM - 12:00 PM	<b>Professional Development Sessions</b>	
	Graduate and Postdoc Training at the NIH	255 B
	Face-to-Face Networking: Building and Maintaining Professional Relationships	255 D
	Imposters, Resilience, and Academy Training	150 D-G
10:30 AM - 12:00 PM	<b>Scientific Symposia Sessions</b>	
	Access vs. Accessibility in K-12 STEM Transitions: Building Effective Pathways to Indigenous Participation in STEM	250 E
	Climate Adaptation Science, an Emerging Area of Research, Education, and Career Opportunities	255 C
	Developmental Genetics: Essential First Steps to Determine Structure and Function	151 A-G

# Agenda at a Glance

	Drone, Drone on the Range: How Precision Agriculture Technology Puts STEM Researchers to Work Improving Food Production and Agroecosystems	255 E
	Experiences of Latinx STEM Graduate Students	Ballroom E
	Exploring the Wonderful World of Biophysics	255 F
	Materials for Energy Applications	Ballroom I
	Mitochondrial Adaptations to Stress	250 F
	Multimessenger Astrophysics: A Gateway to International, Diverse, and Multidisciplinary Careers	250 D
	Observing Earth Changes from Space: Using Four Decades of Landsat Satellites	251 B-C
	Oceans in the Anthropocene – Studying Ocean Global Change Biology and Conservation Biology in Marine Ecosystems	251 F
	Our Disappearing Dark Skies: Lost Dreams and Impacts on Ecology, Environment, and Society	255 A
	Postdoc Presentations: Physiology/Pathology and Cell/ Molecular Biology	251 E
	Postdoc Presentations: Plant Sciences/Botany and Ecology/ Evolutionary Biology	254 B
	Vector-Borne Infectious Diseases: From Molecules to Organisms	Ballroom A
12:30 PM - 1:45 PM	Luncheon and Keynote Address: Yajaira Sierra-Sastre, PhD - Research Scientist, U.S. Bureau of Engraving and Printing*	Exhibit Hall A/B
2:00 PM - 4:30 PM	Exhibit Hall Open	Exhibit Hall C/D/E
2:30 PM - 4:30 PM	Student Poster Presentations 1	Exhibit Hall C/D/E

\* Meal service concludes 30 minutes after the program begins

# Agenda at a Glance

4:00 PM - 5:00 PM	SACNAS VIP Reception (Invitation Only)	Ballroom D & F
5:00 PM - 6:30 PM	Conversations with Scientists - Sponsored by the <b>University of Utah</b>	
	Animal Sciences, Zoology/ Entomology, General Biology and Other Biological Sciences	251 B-C
	Biochemistry/Biophysics	Ballroom C
	Botany/Forestry/Plant Sciences/ Other Agricultural Sciences	251 E-F
	Cell/Molecular Biology, Neuroscience, and Microbiology	Ballroom E
	Ecology and Evolution	250 A-C
	Environmental Science/Studies, Marine Sciences, Oceanography, and Ocean Engineering	250 D-F
	Genetics	Ballroom G
	Pharmacology, Physiology/ Pathology	Ballroom I
	Computer/Information Sciences	255 A
	Discipline Based Education Research and Traditional Knowledge	254 B
	Engineering	255B
	Health and Nutrition	Ballroom A
	Industry	255 D
	Applied Mathematics, General Mathematics, Operations Research	151 A-G
	Statistics	150 D-G
	Atmospheric Sciences/ Meteorology, Earth Sciences, Geology, Other Physical Sciences	255 C
	Chemistry (Except Biochemistry) and Food Sciences	255 E
	Physics and Astronomy/ Astrophysics	255 F
	Psychology and Social Sciences	150 A-C

# Agenda at a Glance

6:45 PM - 8:00 PM	Dinner and Keynote Address: Henry Fowler, EdD (Navajo) - Chair of Mathematics/Physics and Technology Department, Diné College*	Exhibit Hall A/B
8:15 PM - 9:15 PM	Chapter Reception - Sponsored by the <b><i>United States Department of Agriculture (USDA)</i></b>	Ballroom H & J
8:15 PM - 9:15 PM	LGBTQA Reception - Sponsored by <b><i>The National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP) and the National Security Agency (NSA)</i></b>	150 A-C
8:15 PM - 9:15 PM	Math Community Reception - Hosted by the <b><i>American Mathematical Society</i></b>	150 D-G
8:15 PM - 9:15 PM	Native Community Reception - Sponsored by the <b><i>Central Intelligence Agency (CIA)</i></b>	250 D-F
9:20 PM - 10:20 PM	SACNAS Leadership Alumni Reception	Ballroom B
9:20 PM - 10:20 PM	Women in STEM Reception - Sponsored by <b><i>Texas A&amp;M University</i></b>	Ballroom D-F

## FRIDAY, OCTOBER 20

7:00 AM - 6:00 PM	Registration Open	South Concourse
7:00 AM - 8:00 PM	Tech Alley	Upper Concourse
7:30 AM - 8:30 AM	Breakfast Meet and Greet with the <b><i>Department of Energy (DOE)</i></b>	Ballroom D
7:30 AM - 8:30 AM	Breakfast Meet and Greet with the <b><i>University of Utah Biosciences PhD Programs</i></b> – Graduate School 101: Making it Work Well for U	Ballroom F
8:00 AM - 3:00 PM	Exhibitor Registration	South Concourse
8:00 AM - 12:00 PM	Resume Build Room - Sponsored by the <b><i>National Security Agency (NSA)</i></b>	252

\* Meal service concludes 30 minutes after the program begins

# Agenda at a Glance

8:00 AM - 8:00 PM	Indigenous Marketplace	Hallway outside Exhibit Hall
8:00 AM - 8:00 PM	Native American Gathering Room - Sponsored by the <b>Central Intelligence Agency (CIA)</b>	251 A & D
8:45 AM - 12:00 PM	Exhibit Hall Open	Exhibit Hall C/D/E
<b>8:45 AM - 10:15 AM</b>	<b>Professional Development Sessions</b>	
	A Novel Approach to Writing Grants with Peers and a Faculty Coach – It Works!	151 A-G
	Academia Needs You! Considering and Preparing for Positions in Academic Leadership	150 A-C
	Building an Amazing Chapter Regional Event: Case Study of the SACNAS New England Regional Meeting	254 B
	Career Pathways/Making an Impact in Ocean Science: Academia to Agencies, Industry to Non-Profits	250 A-C
	Entrepreneurship Essentials: Design Thinking for Scientists	255 B
	Imposter Syndrome: Feeling like a Fraud in Higher Education, a Community College Perspective	251 F
	Intersectionality: Embracing and Advocating for Your Whole Self and Others	150 D-G
	Interview Success! How to be Your Best at the Graduate School Interview	Ballroom G
	Linking Science and Policy to Further Diversity in STEM	250 D
	Looking Ahead: NIH Grant Programs for Postdocs and Faculty	255 D
	March for Science: Reflecting on Efforts for Community Action, Diversity, and Inclusion	255 C

# Agenda at a Glance

	National Cancer Institute Funding for Research Training: Intramural and Extramural Opportunities	Ballroom E
	Paving Your Pathway to the USGS: Practical Tools to Avoid the Roadblocks of Gender, Ethnicity, and Age to Reach Your Destination	255 E
	Resources and Techniques for Training Students in Computational Skills	250 F
	Strategic Thinking in Leadership	255 A
	Tips and Tools for Becoming an Effective Learner	255 F
	Training Effective Communication to Prepare Future STEM Leaders	251 B-C
	What is an Industry Postdoc?	251 E
<b>8:45 AM - 10:15 AM</b>	<b>Scientific Symposia Sessions</b>	
	Commutative Algebra: Intersectionality, Geometry, Combinatorics, and Computations	Ballroom A
	What Is Discipline-Based Education Research and What Have We Learned about STEM Education?	250 E
<b>10:30 AM - 12:00 PM</b>	Getting Involved in SACNAS Leadership: Board of Directors and Committees	254 B
	One-on-One Mentoring with a SACNAS Leader: Advice from Faculty and STEM Mentors on Planning for Your Science Career	Ballroom C
<b>10:30 AM - 12:00 PM</b>	<b>Professional Development Sessions</b>	
	Broadening Participation By Underrepresented Groups through Collaborations at the NSF Center for Chemical Innovation on Solar Fuels (CCI-Solar)	Ballroom I

# Agenda at a Glance

	How Do You Innovate? Put Design Thinking into Action!	255 B
	Navigating the World of Academia (and Beyond!): Tenure, Non-Tenure, and Other Great Options	150 D-G
	Open Session: Perspectives on How to Advance the Next Generation of Researchers	151 A-G
	Success in STEM Goes Beyond Traditional Practices	Ballroom G
	Uncovering the Secrets to Finding and Applying for Jobs with the Federal Government & HHS	Ballroom E
<b>10:30 AM - 12:00 PM</b>	<b>Scientific Symposia Sessions</b>	
	Catch Climate-Change Fever	255 C
	Earth, Wind, and Fire: USGS Science to Minimize Disaster Impacts	251 F
	Education and Research Toward Health (EARTH): Continuation of a Longitudinal Cohort Study of Health Among Urban Alaska Native and American Indian People	250 F
	Emerging Findings in Diabetes, Metabolism, and Obesity	255 F
	Feeding Bison: Using Big Data for a National View of Biodiversity	255 A
	Genetic Factors That May Aid Alaska Native and American Indian People to Successfully Quit Tobacco	255 D
	Health Disparities in Disease	150 A-C
	Latin@s Count!	250 A-C
	On the Plant Path	255 E
	Postdoc Presentations: Public Health, Cancer Biology, and Genetics	251 E

# Agenda at a Glance

	Protein Structures: Producing, Using, and Teaching about Life's Building Blocks	Ballroom A
	Research on Innovative Technology Experiences for Students and Teachers: Findings from the NSF ITEST Program	250 E
	Tackling the Good, the Bad, and the Ugly: Exploring the Frontiers of Marine Microbiology	251 B-C
	The Sun-Earth Connection: Space Weather and Eclipses	250 D
12:15 PM - 1:30 PM	Luncheon and Keynote Address: Tyrone Hayes, PhD - Class of 43 Chair and Professor of Integrative Biology, University of California, Berkeley*	Exhibit Hall A/B
1:45 PM - 5:00 PM	Exhibit Hall Open	Exhibit Hall C/D/E
1:45 PM - 3:45 PM	Student Poster Presentations 2	Exhibit Hall C/D/E
4:00 PM - 5:30 PM	Meet the Candidates for the SACNAS Board of Directors	250 F
<b>4:00 PM - 5:45 PM</b>	<b>Graduate Oral Presentations</b>	
	Chemistry & Biochemistry	251 F
	Chemistry & Materials Research	255 A
	Chemistry: Inorganic & Organic & Analytical	251 E
	Health & Physiology/Pathology	Ballroom C
	Life Sciences: Biochemistry & Developmental Biology	250 E
	Life Sciences: Cancer Biology	255 E
	Life Sciences: Cell/Molecular Biology I	150 D-G
	Life Sciences: Cell/Molecular Biology II	150 A-C
	Life Sciences: Cell/Molecular Biology, Cancer Biology & Genetics	255 B
	Life Sciences: Ecology/ Evolutionary Biology	250 A-C

\* Meal service concludes 30 minutes after the program begins

# Agenda at a Glance

	Life Sciences: Ecology/ Evolutionary Biology, Other Life Sciences & Earth Science	255 F
	Life Sciences: Microbiology	Ballroom B
	Life Sciences: Neurosciences & Biology (general)	250 D
	Life Sciences: Plant Sciences/ Botany, Animal Sciences & Marine Sciences	251 B-C
	Mathematics	255 C
	Mathematics & Engineering	254 B
	Physics & Astronomy	255 D
	Psychology & Social Sciences	Ballroom A
	STEM Education and Learning & Traditional Knowledge	151 A-G
5:00 PM - 8:00 PM	Exhibit Hall Move Out	Exhibit Hall C/D/E
<b>6:00 PM - 7:30 PM</b>	<b>Dinner and Featured Speakers:*</b>	
	<ul style="list-style-type: none"> <li>• Rosalyn LaPier, PhD (Blackfeet Tribe of Montana and Métis) - Associate Professor, Environmental Studies, University of Montana</li> <li>• Knatokie Ford, PhD - Founder and CEO, Fly Sci Enterprise and Former Senior Policy Advisor, Obama White House</li> <li>• Miguel A. Garcia-Garibay, PhD - Faculty Professor, Department of Chemistry and Biochemistry, University of California, Los Angeles</li> </ul>	Exhibit Hall A/B
6:00 PM - 7:30 PM	Judges Tally and Dinner	Ballroom D
8:00 PM - 10:30 PM	Annual SACNAS Pow Wow	Ballroom E-J
<b>SATURDAY, OCTOBER 21</b>		
7:30 AM - 3:00 PM	Día de la Física / Day of Physics Field Trip	Bus Loading Area
7:30 AM - 3:00 PM	Ecology and Evolution Field Trip	Bus Loading Area

\* Meal service concludes 30 minutes after the program begins

# Agenda at a Glance

7:30 AM - 3:00 PM	University of Utah Field Trip	Bus Loading Area
7:30 AM - 3:00 PM	Utah State University Field Trip	Bus Loading Area
8:00 AM - 12:30 PM	Registration Open	South Concourse
8:00 AM - 8:00 PM	Native American Gathering Room - Sponsored by the <b>Central Intelligence Agency (CIA)</b>	251 A & D
9:00 AM - 10:30 AM	Meet the Candidates for the SACNAS Board of Directors	254B
<b>9:00 AM - 10:30 AM</b>	<b>Professional Development Sessions</b>	
	Advancing the Undergraduate Research Agenda at Community Colleges	251 B-C
	Advancing the Collective Impact of Retention and Continuation Strategies for Hispanics and Other Underrepresented Minorities in STEM Fields: Results from an NSF INCLUDES Conference	Ballroom D
	Clubes De Ciencia Mexico	251 F
	Converting Barriers into Detours: Increasing the Potential for Minority Success in Majority Settings	Ballroom A
	Developing the Mentee and Being the Right Kind of Mentor in STEM	255 A
	Exploring Career Pathways in Science Policy, STEM Law, and Bioethics	250 D
	Finding Strength through Our Culture: Striving and Thriving in STEM	Ballroom B
	Getting Beyond the Classroom: Pursuing Opportunities in Conservation and Environmental Careers	151 A-G
	Goal-Setting Skills for Academic and Career Success	255 E
	Hostile Work Climates: Responding to Sexual Harassment	250 A-C

# Agenda at a Glance

	I Wish I Had Known: How to Find the Right Postdoctoral Position	251 E
	Mobilizing Expertise for Advocacy and Social Change	255 D
	More Than Just Community Faces: CFU Elders and SACNAS Young People Harmonizing Their Voices in Health Spaces	250 F
	NIH-supported Training Opportunities for Graduate Students	150 A-C
	NSF Opportunities – Promoting STEM Diversity through Capacity Building, Support, and Public Understanding	255 B
	Resume Writing, Branding, and Interviewing for Success in Biotech Internships and Research Opportunities	255 C
	Science Is Your Story: Crafting Narratives to Empower Yourself and Others	150 G
	Stories from the Other Side of the Blurry Tunnel: It Gets Better after All	255 F
	The Voices of Native American Summer Research Internship Alumni: Our Path to Success	150 D-F
<b>9:00 AM - 10:30 AM</b>	<b>Scientific Symposia Sessions</b>	
	Real World Mathematical Applications in Biological Sciences	Ballroom C
10:45 AM - 12:15 PM	Getting Involved in SACNAS Leadership: Board of Directors and Committees	250 E
<b>10:45 AM - 12:15 PM</b>	<b>Professional Development Sessions</b>	
	A'o: Addressing Cultural Relevance and Values in Pursuit of STEM Higher Education Careers	150 D-F

# Agenda at a Glance

	Chapter Best Practices: Awardees Provide Tools on their Success	251E
	Navigating Your Mentoring Relationships with a MAP (Mentoring Action Plan) As a Mentee	151 A-G
	Summer Postbac and Undergraduate Scholarship Opportunities at the NIH	255 B
	Pauper to PhD: Financial Literacy for Scientists	150 G
	Preparing for Professional Careers – How to Stand Out When Competing for Jobs	255A
	The Academic Toolbox: Navigating Grad School As a Marginalized Student	Ballroom B
<b>10:45 AM - 12:15 PM</b>	<b>Scientific Symposia Sessions</b>	
	A View into the Complex World of Glycobiology—an Emerging Multidisciplinary Field Connecting Medicine, Biotechnology, and the Basic Sciences	Ballroom A
	Cancer Health Disparity Research: Correlating Research Methods	255 F
	Chemistry's Vital Role in Science: Recent Advances in the Area of Carbon-Hydrogen (C-H) Bond Activation/Functionalization	Ballroom C
	Conservation Science in the Anthropocene	255 C
	Diversity in Genomic Research	250 F
	Exceptional Sources in the Universe	250 D
	From Bacteria to Dinosaurs: Geobiology on a Dynamic Planet	Ballroom D
	Interdisciplinary Approaches in the Ocean Sciences: Bridging the Gap Between Basic and Applied Science	251 F

# Agenda at a Glance

	Plant Systems Research: Foster Breakthroughs in Agriculture, Food, Health, and the Environment	255 E
	Postdoc Presentations: Earth Science, Biochemistry, Neurosciences and Other Life Sciences	254 B
	The Future Is Here and Changing Our Way of Life: Development and Applications of Unmanned Aircraft System (UAS) Technology	150 A-C
	Tobacco Use in Racial and Ethnic Communities: From Ceremonial Tobacco Use to Federal Policies	255 D
	Women in Math	250 A-C
12:45 PM - 2:30 PM	Lunch Plenary Award Ceremony and Keynote Address: Mario Capecchi, PhD – Nobel Laureate and Distinguished Professor, University of Utah School of Medicine*	Exhibit Hall A/B
3:30 PM – 4:30 PM	2018 SACNAS Local Conference Committee Meeting: All Texas Area Participants Invited	250 C
4:00 PM - 5:00 PM	Lasting Impressions - Next Steps: Networking Session with the <b>Central Intelligence Agency (CIA)</b> . Dinner buffet available	255B
4:00 PM - 5:00 PM	Lasting Impressions - Next Steps: Networking Session with <b>Texas A&amp;M University</b> . Dinner buffet available	255E
5:00 PM - 6:00 PM	Lasting Impressions - Networking Session with the <b>University of Utah</b> : Quality and Excellence are in our DNA. Dinner buffet available	255F
6:00 PM - 7:00 PM	Travel Scholars: Continuing the Conversation – Sponsored by <b>Utah State University</b>	151
7:00 PM – 9:00 PM	Movie Night: More than a Word	250 AB
8:30 PM - 11:00 PM	SACNAS Dance - ¡Pachanga!	Ballroom E/G/I

\* Meal service concludes 30 minutes after the program begins

# GET CONNECTED!



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Members can also network in our SACNAS LinkedIn group: [www.linkedin.com/groups/81952](https://www.linkedin.com/groups/81952)



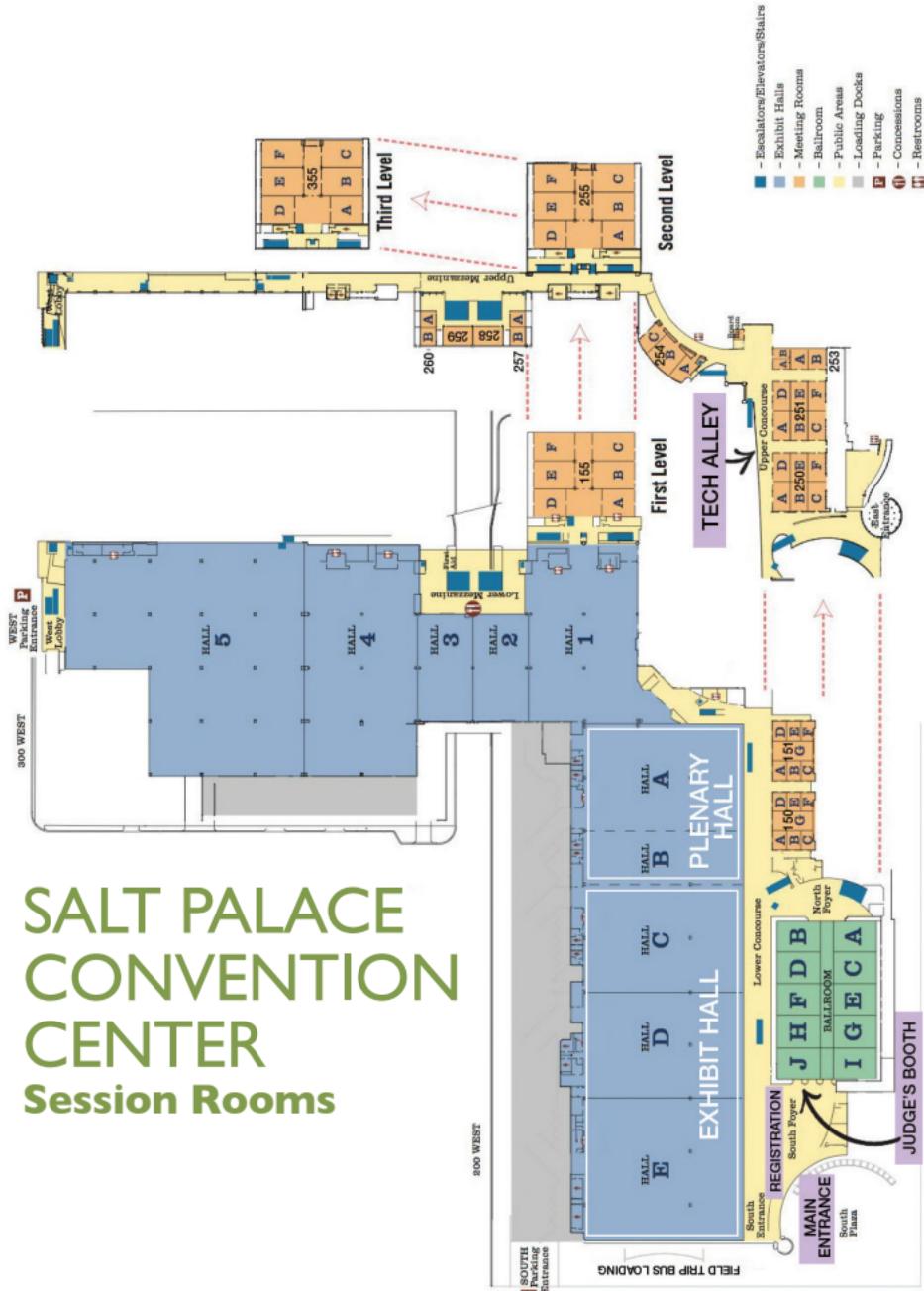
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Our newest social media profile! Scan our Snapcode to add us as a friend: <https://www.snapchat.com/add/sacnas>

# #SACNAS2017



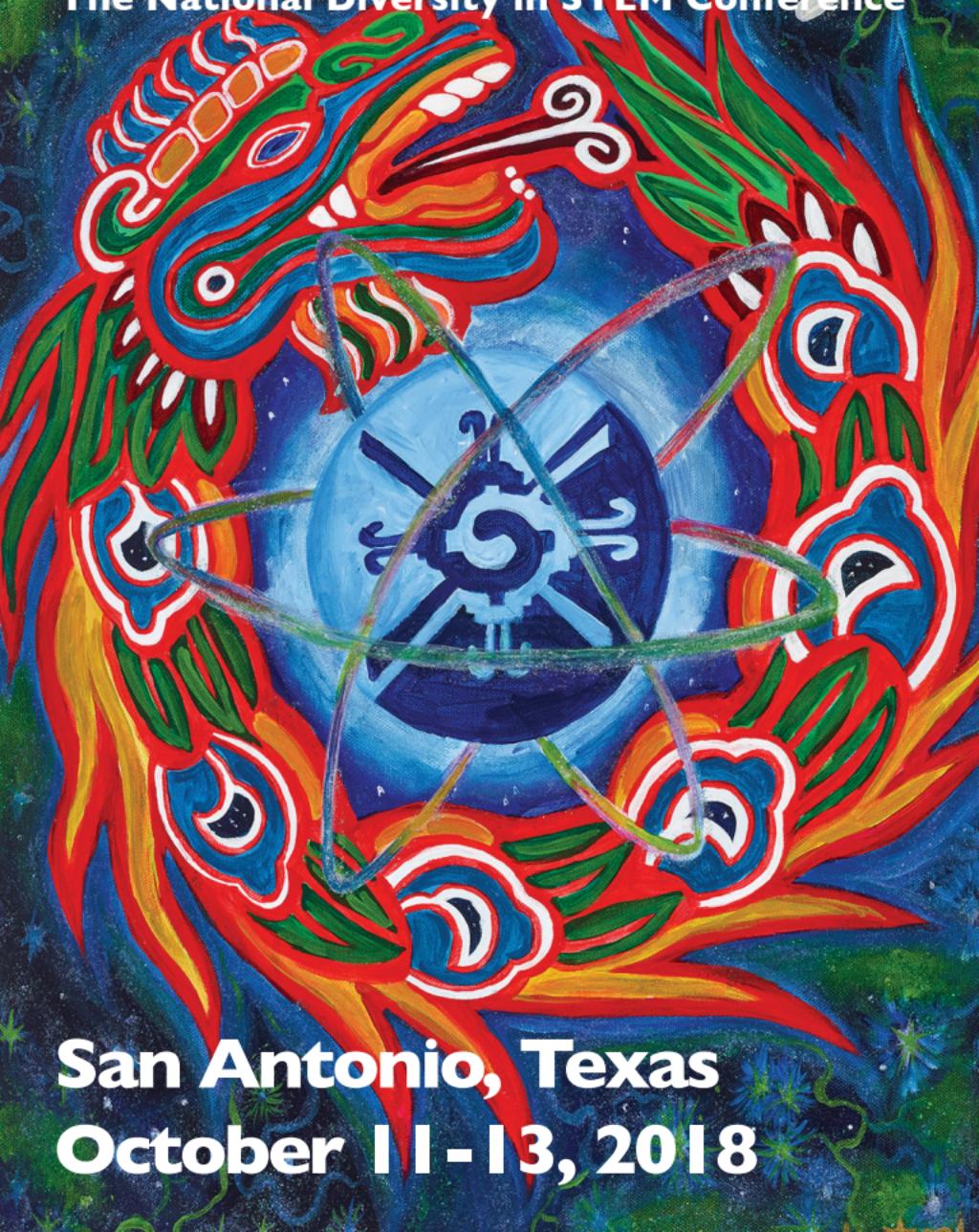
# SALT PALACE CONVENTION CENTER Session Rooms



SAVE THE DATE

# 2018 SACNAS

The National Diversity in STEM Conference



**San Antonio, Texas**

**October 11-13, 2018**