

2016 SACNAS

The National Diversity in STEM Conference



STEM Diversity



Public Understanding

October 13 – 15, 2016

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THURSDAY, OCTOBER 13		
6:30 AM - 7:00 AM	Field Trip Breakfast	Bus Loading Zone – Pine Ave.
7:00 AM - 3:00 PM	Field Trips	Bus Loading Zone – Pine Ave.
7:00 AM - 8:00 PM	Registration Open	Conference Center Promenade / Lobby
7:00 AM - 8:00 PM	Cyber Café	Conference Center Promenade / Lobby
7:00 AM - 4:30 PM	Exhibitor Registration	Conference Center Promenade/Lobby
7:30 AM - 8:45 AM	Judges Orientation & Breakfast	Grand Ballroom
8:00 AM - 8:00 PM	Indigenous Marketplace	Conference Center Promenade / Lobby
8:00 AM - 8:00 PM	Native American Gathering Room	103C
8:00 AM - 9:30 AM	Exhibit Hall Move In	Exhibit Hall BC
8:00 AM - Noon	Modern Math Workshop (Day 2)	101A
8:45 AM - 10:15 AM	PROFESSIONAL DEVELOPMENT SESSIONS	
	Advice and Tips for Securing Academic Funding	102A
	Advice for the Advisors! Partnering with the Graduate Program Director to Successfully Prepare Your Students for the PhD	102C
	Changing the Face of Science through Mentoring	203C

Agenda at a Glance

8:45 AM - 10:15 AM	PROFESSIONAL DEVELOPMENT SESSIONS, Cont.	
	Coaching Strong Scientists in Communication and Negotiation	202A
	Comparing Industry and Academic Postdoctoral Experiences	101B
	Interviewing for Success in Biotech/Corporate Internship and Research Opportunities	203A
	Linking Science & Policy for Public Understanding	202B
	Looking Ahead: NIH Grant Programs for Postdocs and Faculty	104A
	Making the Short List—Crushing the Interview: Securing Your First Academic Position	201B
	MD-PhD, Is It Right for Me?	201A
	Postdoc Fundamentals: Selecting a Training Experience to Match Your Career Goals	104C
	Presentation Skills: From Beginner to Advanced	102B
	Science Communication: Becoming a Public Voice, Advancing Your Career	203B
	Succeeding in STEM through the Power of Mentoring	202C
	What Do I Do with My Bachelor's?	104B
8:45 AM - 10:15 AM	SCIENTIFIC SYMPOSIA SESSIONS	
	Trail to Discovery: Lessons from Developmental Biologists	103A
9:00 AM - Noon	Judges Booth Open / Student Presentations Check-In	Conference Center Promenade / Lobby

Agenda at a Glance

10:00 AM - Noon	Exhibit Hall Open	Exhibit Hall BC
10:30 AM - Noon	Native American Welcome	103BC
10:30 AM - Noon	Insights to Success: Real-Life Adventures of SACNAS Scientists, sponsored by the National Security Agency	104A
10:30 AM - Noon	LEADERSHIP DEVELOPMENT SESSIONS	
	Bringing Teams Together in Leadership: Balancing Governance, Communication, and Member Retention in Chapters	102C
	Getting Involved in SACNAS Leadership: Board and Committees	102B
10:30 AM - Noon	PROFESSIONAL DEVELOPMENT SESSIONS	
	Twitter for Professional Development	201B
10:30 AM - Noon	SCIENTIFIC SYMPOSIA SESSIONS	
	A Sweep of the Universe: Leading Topics in Astrophysics on Multiple Scales of Space and Time	203B
	Emerging Technological Approaches in Ocean Science Research	202B
	Eureka! Serendipity in Science	201A
	Land, Water, and Wildlife: Tackling Conservation Challenges through Creative Science	203C
	Perinatal Health: Culturally Relevant Processes in Latino Mother/Child Dyads	101B
	Postdoctoral Presentations: Biology 1	204

Agenda at a Glance

10:30 AM - Noon	SCIENTIFIC SYMPOSIA SESSIONS, Cont.	
	The Forefront of Particle and Nuclear Physics	102A
	The Rise of Glycoscience: The Sweet Connection Between Undergraduate Education and the Growing Field of Glycoscience	104B
	Working With the Community - The Importance of Scientists Collaborating With People Who Live Where We Are Doing Field Studies	202A
Noon - 12:30 PM	Lunch Plenary, Session Doors Open	Exhibit Hall A
12:30 PM - 1:45 PM	Luncheon, Welcome Ceremony & Keynote Address: Hannah Valantine, MD – Chief Officer for Scientific Workforce Diversity, National Institutes of Health*	Exhibit Hall A
2:00 PM - 5:00 PM	Judges Booth Open / Student Presentations Check-In	Conference Center Promenade / Lobby
2:00 PM - 4:30 PM	Exhibit Hall Open	Exhibit Hall BC
2:30 PM - 4:30 PM	Undergraduate & Graduate Poster Session 1	Exhibit Hall BC
4:00 PM - 5:00 PM	SACNAS VIP Reception (Invitation Only)	Hyatt Regency Hotel – Seaview AB
5:00 PM - 6:30 PM	CONVERSATIONS WITH SCIENTISTS	
	Animal Sciences, Zoology/ Entomology, General Biology & Other Biological Sciences	102A
	Applied Mathematics, General Mathematics, Operations Research	104B
	Atmospheric Sciences/ Meteorology, Earth Sciences, Geology, Other Physical Sciences	101A

* Meal service concludes 30 minutes after the program begins

Agenda at a Glance

5:00 PM - 6:30 PM	CONVERSATIONS WITH SCIENTISTS, Cont.	
	Biochemistry/Biophysics	201B
	Botany/Forestry/Plant Sciences/ Other Agricultural Sciences	103A
	Cell/Molecular Biology, Neuroscience, and Microbiology	104A
	Chemistry (Except Biochemistry) & Food Sciences	201A
	Computer/Information Sciences	101B
	Discipline Based Education Research and Traditional Knowledge	204
	Ecology and Evolution	102B
	Engineering	102C
	Environmental Science/Studies, Marine Sciences, Oceanography, and Ocean Engineering	103B
	Genetics	203B
	Health & Nutrition	104C
	Industry	203C
	Pharmacology, Physiology/ Pathology	202B
	Physics and Astronomy/ Astrophysics	202C
	Psychology and Social Sciences	203A
	Statistics	202A
6:15 PM - 6:45 PM	Dinner Plenary, Doors Open	Exhibit Hall A
6:45 PM - 8:00 PM	Dinner & Keynote Address: Gregory Cajete, PhD (Santa Clara Pueblo) – Director of Native American Studies, The University of New Mexico*	Exhibit Hall A

* Meal service concludes 30 minutes after the program begins

Agenda at a Glance

8:15 PM - 9:45 PM	Native American Community Reception	103AB
8:15 PM - 9:45 PM	SACNAS Chapter Reception, Sponsored by the University of California, Merced	Grand Ballroom
8:15 PM - 9:45 PM	SACNAS Leadership Alumni Reception	Hyatt Regency Hotel – Seaview AB
8:15 PM - 9:45 PM	LGBTQA Reception, Sponsored by the National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP)	204
FRIDAY, OCTOBER 14		
7:00 AM - 4:30 PM	Exhibitor Registration	Conference Center Promenade/Lobby
7:00 AM - 6:00 PM	Registration Open	Conference Center Promenade / Lobby
7:00 AM - 6:00 PM	Cyber Café	Conference Center Promenade / Lobby
8:00 AM - 6:00 PM	Indigenous Marketplace	Conference Center Promenade / Lobby
8:00 AM - 8:00 PM	Native American Gathering Room Open	103C
8:00 AM - Noon	Judges Booths Open / Student Presentations Check-In	Conference Center Promenade / Lobby

Agenda at a Glance

8:30 AM - 10:00 AM	LEADERSHIP DEVELOPMENT SESSIONS	
	Getting Involved in SACNAS Leadership: Board and Committees	104B
	Leading Change	102B
8:30 AM - 10:00 AM	PROFESSIONAL DEVELOPMENT SESSIONS	
	Mentoring 1-on-1 with a SACNAS Leader: Advice from Faculty and STEM Mentors on Planning for Your Science Career	Grand Ballroom
	Applying to Graduate School and the Interview Process	104A
	Creating a More Inclusive and Diverse Environment in Academia	202A
	Effective and Efficient Scientific Writing	203C
	Entrepreneurship Essentials I: From Academia to Creating Your Own Company, supported by VentureWell	103B
	Expand Your Network: How to Identify Mentors, Sponsors, and Advisors for a Successful Career	101B
	NIH-Supported Training Opportunities for Graduate Students	203B
	NSF Opportunities – Promoting STEM Diversity through Capacity Building, Support, and Public Understanding	103A
	Open Science: Practicing, Publishing, and Teaching in a Modern Academic Career	202C

Agenda at a Glance

8:30 AM - 10:00 AM		PROFESSIONAL DEVELOPMENT SESSIONS, Cont.
	Propagation of Positive Language When Referring to Underrepresented Individuals in STEM	204
	Summer Postbac and Undergraduate Scholarship Opportunities at the NIH	104C
	The Fastest Path to Finding Your Career Fit and Calling	101A
	Training Approaches: Alignment with Community Values and Priorities	102A
	Transmitting Science through Stories	102C
	Uncovering the Secrets to Finding and Applying For Jobs in the Federal Government and at HHS	201B
	USGS Mendenhall Research Fellowship Program – Preparation and Submittal for the Postdoc Opportunity of a Lifetime	201A
8:30 AM - 10:00 AM		SCIENTIFIC SYMPOSIA SESSIONS
	Antarctica - the Coldest, Windiest, Driest, and Highest Continent in the World	202B
	What Photons Tell Us about Chemistry	203A
9:00 AM - 11:45 AM	Exhibit Hall Open	Exhibit Hall BC
10:15 AM - 11:45 AM		LEADERSHIP DEVELOPMENT SESSIONS
	Emotional Intelligence and Intercultural Literacy	103A
	How to Start a SACNAS Chapter: Community College, Undergraduate, Graduate, and Professional Communities	102C

Agenda at a Glance

10:15 AM - 11:45 AM	PROFESSIONAL DEVELOPMENT SESSIONS	
	Entrepreneurship Essentials II: Securing Government Grants for Startups	103B
	Navigating Mentoring Relationships: Discovering Essential Skills for Mentees	202B
	Stories from the Other Side of the Blurry Tunnel, It Gets Better after All!	101A
10:15 AM - 11:45 AM	SCIENTIFIC SYMPOSIA SESSIONS	
	A Showcase of Data-Driven Interdisciplinary Research in the Statistical Sciences	203A
	At the Crossroads Between Number Theory and Representation Theory	102B
	Algebra: Much More Than Arithmetic!	203C
	Bridging the Divide – Using Virtual Connections to Engage TCUs and American Indian/Alaskan Native Communities	202C
	Cell Biology: From Human Disease to Molecular Mechanism	104B
	(Day and) Night at the Museum: Exploring Research in Ecology and Evolution Behind the Scenes in Natural History Museums	201B
	Funding the Future: NIFA Grants Support Students, Faculty, and Institutions	104C
	Heliophysics: The Science of Sun, Earth, and Solar System	102A

Agenda at a Glance

10:15 AM - 11:45 AM	SCIENTIFIC SYMPOSIA SESSIONS, Cont.	
	Human/Wildland Interface – Wildlife Connectivity Despite Urbanization, Climate Change, Wildfire, and Other Stressors	203B
	Intersection of Ethnic and Scientific Identity	202A
	Pharmacogenomics for Tobacco Cessation in Tribal Community	201A
	Postdoctoral Presentations: Biology 2	204
	The ABCs of Diversity in Genomic Research: Ascertainment, Bioinformatics, and Computation	104A
	Tracking the Invaders: Innovations in Invasive Species Science	101B
11:30 AM - Noon	Lunch Plenary, Doors Open	Exhibit Hall A
Noon - 1:15 PM	Lunch Plenary Session: STEM in the Media Panel*	Exhibit Hall A
1:00 PM - 5:30 PM	Judges Booth Open / Student Presentations Check-In	Conference Center Promenade / Lobby
1:30 PM - 5:30 PM	Exhibit Hall Open	Exhibit Hall BC
1:30 PM - 3:30 PM	Undergraduate & Graduate Poster Session 2	Exhibit Hall BC
3:45 PM – 5:30 PM	GRADUATE STUDENT ORALS	
	Biomedical Research 1	204
	Biomedical Research 2	202C
	Biomedical Research 3	203A
	Biomedical Research 4	203B
	Biomedical Research 5	203C
	Chemistry	102A

* Meal service concludes 30 minutes after the program begins

Agenda at a Glance

3:45 PM – 5:30 PM	GRADUATE STUDENT ORALS, Cont.	
	Chemistry and Chemical Engineering	102B
	Engineering	102C
	Life Science 1	104B
	Life Science 2	104C
	Life Science 3	201A
	Life Science 4	201B
	Life Science 5	202A
	Life Science and Geoscience	104A
	Mathematics and Life Science	202B
	Physics and Astronomy	101A
	Physics and Chemistry	101B
	Psychology and STEM Education	103A
	Public Health and Clinical Psychology	103B
5:30 PM - 8:00 PM	Exhibit Hall Move Out	Exhibit Hall BC
5:30 PM - 6:00 PM	Dinner Plenary, Doors Open	Exhibit Hall A
6:00 PM - 7:30 PM	Dinner & Featured Speakers* <ul style="list-style-type: none"> • Sherilynn Black, PhD – Director, Office of Biomedical Graduate Diversity, Duke School of Medicine • Keolu Fox, PhD – Postdoctoral Fellow, University of California, San Diego, School of Medicine • Ridhi Tariyal, MBA – CEO and Co-Founder, NextGen Jane 	Exhibit Hall A
6:00 PM - 7:30 PM	Judges Tally & Dinner	Hyatt Regency Hotel – Seaview ABC

* Meal service concludes 30 minutes after the program begins

Agenda at a Glance

8:00 PM - 10:30 PM	SACNAS Annual Pow Wow, sponsored by the National Geospatial-Intelligence Agency	Grand Ballroom
SATURDAY, OCTOBER 15		
8:00 AM - Noon	Registration Open	Conference Center Promenade / Lobby
8:00 AM - Noon	Cyber Café	Conference Center Promenade / Lobby
8:00 AM - 8:00 PM	Native American Gathering Room	103C
9:00 AM - 10:30 AM	PROFESSIONAL DEVELOPMENT SESSIONS	
	An Act of Translation: Transferring Your Research Skills Into Something Meaningful to Society	102A
	An Essential Roadmap for Undergraduate Success in Science Research	104C
	Criminal Justice and STEM at the National Institute of Justice	203B
	Diversifying by Clustering	202A
	Federal Opportunities That Support Teacher Preparation and Recognition	103B
	From Molecules to Social Justice: What Can Your Research Do?	202B
	Graduate and Postdoctoral Training Opportunities at the NIH	104B
	Insights into the Peer Review System for Early Career Scientists	202C

Agenda at a Glance

9:00 AM - 10:30 AM	PROFESSIONAL DEVELOPMENT SESSIONS, Cont.	
	Learn Mentoring through Movement: Salsa, Connection, and Communication	Grand Ballroom
	Negotiation Skills - the Cornerstone of Successful Collaborations	201B
	Science Communication to Support Your Career: From Social Media to Journalism	203A
	Si Se Puede: A Woman's Guide to Earning Tenure	102C
	STEM Community College Students: Interventions That Lead to Transfer Success	201A
	The Best Interview: How to Excel at the Graduate School Interview	104A
	The Postdoc Hunt: Tools and Strategies for a Smooth PhD Transition	101B
	Tips for Early Success in a New Mentor-Mentee Relationship: Expectations, Communication, and Independence	203C
	Tribal Engagement in Addressing Climate Change Impacts to Forested Landscapes	102B
	What's It like to Work in Industry?	101A
	When You Can't Learn It All at the Bench – Reach out for Career Development!	103A
9:00 AM - 10:30 AM	SCIENTIFIC SYMPOSIA SESSIONS	
	Food is Life: How Urban Agriculture and Food Tech Can Help Transform, Strengthen, and Empower Communities of Color	204

Agenda at a Glance

10:45 AM - 12:15 PM	LEADERSHIP DEVELOPMENT SESSIONS	
	Getting Involved in SACNAS Leadership: Board and Committees	102B
	Leadership and Privilege	Grand Ballroom
	Motivating the "Middle:" Lessons Learned from a Re-Established Chapter	102C
10:45 AM - 12:15 PM	PROFESSIONAL DEVELOPMENT SESSIONS	
	"But I Have No Skills!" Debunking Myths and Exploring Careers for PhDs in Science	202B
	Successful Science Career and a Rewarding Family Life: Can You Have It All?	101B
	Research Fellowships, Careers, and Funding at the National Cancer Institute, National Institutes of Health	104C
10:45 AM - 12:15 PM	SCIENTIFIC SYMPOSIA SESSIONS	
	Abstract Algebra Research Topics for Undergraduates	203B
	Biophysics: An Amazing Toolkit to Understand Life Processes at the Molecular Level	104A
	Clocks in the Rocks, Coral, and Wood: Dating Techniques That Keep Time For Earth History and Ecosystem Change	102A
	Discovery and Societal Impact of Statistical Science	203C
	Diverse Pathways in STEM Education	101A
	Engaging the American Indian and Hispanic Populations in Tobacco Regulatory Research	104B

Agenda at a Glance

10:45 AM - 12:15 PM	SCIENTIFIC SYMPOSIA SESSIONS, Cont.	
	Fisheries, Wildlife, and Conservation Biology: Intersection Between Science and Management	201B
	Grand Challenges in Chemistry and Its Communication	103B
	Gravitational Waves: Opening a New Window on the Universe	103A
	Increasing Understanding of Material Sciences - Engineering Materials for Diverse Applications	203A
	Physics Education Research: The Teaching and Learning of Physics	202C
	Postdoctoral Presentations: Biology/ Chemistry	204
	Protein Engineering for Therapeutics, Biodegradation, and Protein Assemblies	201A
	The New Mathways Project: Rethinking the Pathway to Calculus to Broaden Participation in the STEM Workforce	202A
12:15 PM - 12:45 PM	Lunch Plenary, Doors Open	Exhibit Hall A
12:45 PM - 2:30 PM	Lunch Awards Ceremony & Keynote Address: Gabriela Gonzalez, PhD – Professor of Physics and Astronomy, Louisiana State University and Spokesperson for the LIGO Scientific Collaboration*	Exhibit Hall A
3:00 PM - 4:00 PM	2017 SACNAS Local Conference Committee Meeting: All Utah Area Participants Invited!	103B
6:00 PM - 8:00 PM	Movie Night: Navajo Math Circles	102A
6:00 PM - 8:00 PM	Movie Night: Plastic Paradise: The Great Pacific Garbage Patch	102C
8:30 PM - 11:00 PM	SACNAS Dance-¡Pachanga!	Grand Ballroom

* Meal service concludes 30 minutes after the program begins

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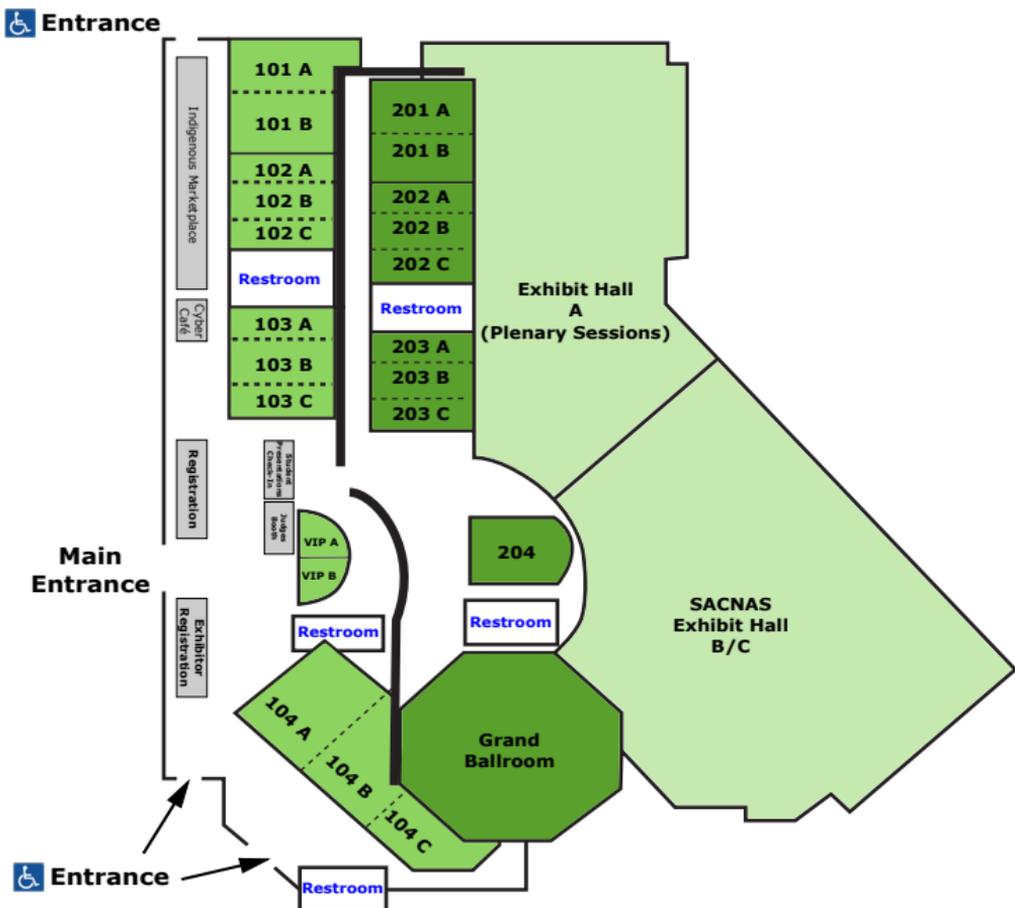
LONG BEACH CONVENTION CENTER

Session Rooms

Promenade Level 1

Promenade Level 2

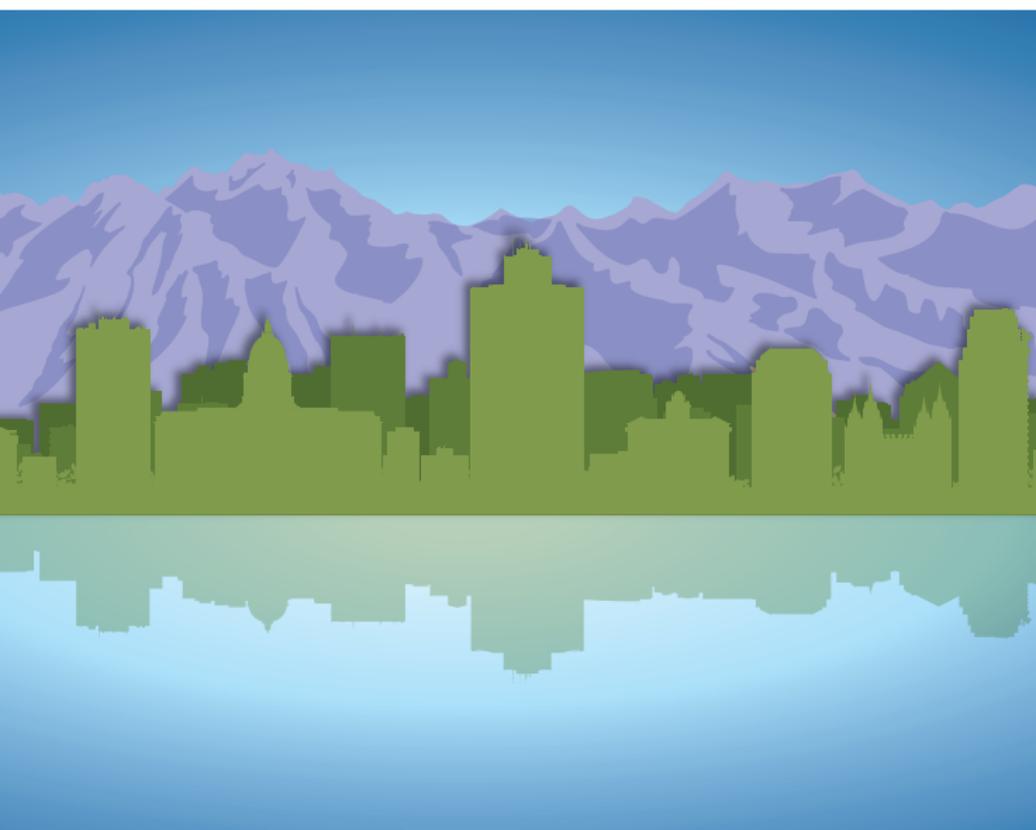
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2017 SACNAS

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Save the Date for 2018 – San Antonio, Texas, October 11 – 13