Wednesday, November 13

Conference Registration
4:30 pm – 7:30 pm
Caribe Royale Convention Center Lobby

Thursday, November 14

Conference Registration
7:00 am – 5:00 pm
Caribe Royale Convention Center Lobby

Student Representatives Meeting
8:00 am – 2:00 pm
Boca 7

Professional Chapters Council Meeting
8:00 am – 9:30 am
Boca 3
Come and network and learn best practices for developing and maintaining a robust Professional Chapter. All professional chapter members and professional members are welcomed.

Government Relations Council Meeting
8:00 am – 9:30 am
Boca 1 & 2
The biannual meeting of the GRC convenes to strengthen relationships between AISES and federal agencies.

Bus Tour of Kennedy Space Center and Apollo/Saturn V Center
8:00 am – 2:00 pm
Meet the bus under the Porte-Cochere in front of the Caribe Royale Convention Center.

Short Course: Integrated Basin Analysis:
Sponsored and Presented by ExxonMobil
8:00 am – 3:30 pm
Curacao 1
This course will explore concepts, methods and tools of petroleum geoscience used on a day-to-day basis in the energy industry. We focus on how we make decisions with limited information, evaluate risk vs. uncertainty and maximize value from integrated teams. In the morning, we review fundamental stratigraphic and structural concepts. The afternoon is spent solving an applied problem in basin exploration. Students will make play maps, bid on prospective acreage and analyze individual prospects within that acreage. Throughout the course we stress integration across disciplines and scales, focusing on interaction and expression of basin formation, fill and evolution processes from regional to prospect scale.
Corporate Advisory Council Meeting
9:30 am – 11:00 am
Boca 1 & 2
Members of AISES’ CAC will convene for their biannual meeting.

Career Development Skill-Building Track
9:30 am – 12:30 pm
Caribbean Ballroom 1

• Networking 101
  When you are told you should network with people, what is your first reaction? Do you get excited? Confused? Overwhelmed? How many times have you been told to network in order to find a new job or career opportunity? Where do you even start?
  In simple terms, networking is building relationships! Effective networkers build relationships with many people and when they need help to answer a question, they know who to call because they have formed the relationship BEFORE they actually needed something.
  This interactive session will bring structure and a framework to the art of networking and give practice to attendees.

• Be Heard! Rise Above the Mediocre Speech
  Whether you are talking to a large group or an individual you need good communication skills to effectively share your message. Learn how to improve your communication skills so you are comfortable delivering your message successfully. Identify ways to overcome the fear of speaking and how to make your speech successful. Stop by and learn how to get your voice heard!

• Perspectives on Career Paths
  “Experience is the teacher of all things” - Julius Caesar. During this workshop, three scientists from various backgrounds will share the path each took to identify their passions and develop a career in STEM (Science, Technology, Engineering and Mathematics) fields. Each individual will be discussing “life-lessons” they have gained including hardships, pitfalls and critical information while forging their unique path. Various scientific fields will be covered as well as education levels (bachelors to PhD degrees). This interactive workshop is designed to engage the audience and provide them with tools to explore their own career paths in order to transcend the STEM community.

• Career Fairs 101: You Only Get ONE Chance to Make a First Impression
  The impression you make throughout your conference experience, and especially at career fairs, should be your BEST representation of YOU, because remember, you only get ONE chance to make a first impression. This interactive session will equip pre-college and collegiate students alike with the tools needed to represent themselves appropriately and bring their “A” game at the AISES Career Fair and throughout the conference. The session includes an interactive portion where YOU get a chance to practice the art of selling yourself.
Pre-College Development Track
9:30 am – 1:30 pm
Caribbean Ballroom 2

• Undergraduate Research: How & Why
Interested in performing hands-on research? Expanding your network professionally? Learning exactly what research is? And getting paid for all of it? Undergraduate research opportunities can help make your academic career mean more than just classes and provide substantial benefits in the process. See what the application process entails, what a summer research program consists of and get advice to help decide which program is right for you.

• The Glass Ceiling?
There isn’t a glass ceiling. We’ve just accepted things as they are and have become satisfied with what we have, but if we aren’t careful and don’t raise the bar or raise our expectations, we will continue to lose what we have and who we are. Losing our lands and our resources means we are losing a part of us.

• You Can Make a Difference: A Career in Transportation Industry and Engineering!
You have a lot of choices to make in life. One important choice is what career to pursue. Transportation in an exciting career! As a transportation professional and engineer you will plan, design, operate and manage transportation facilities working as a consultant, researcher or government employee.

Transportation affects all aspects of a tribal community’s quality of life: the education, employment, health and safety of our tribal people. Engineers and transportation professionals plan, design and operate streets, highways, transit systems, airports and harbors.

Transportation designers are often challenged to build a road or bridge that is compatible to the tribal community’s cultural needs. Duties of a designer’s job include drafting plans using computer drafting program ARCGIS (with design features) and Traffic Modeling software. This exciting field may be for you!

• The Salmon of Knowledge: Engaging Students in STEM through Hands-On Fisheries and Wildlife Activities
Conventional lecture-style learning is flipped on its head when students get into the action with hands-on activities in fisheries and wildlife. Fisheries and wildlife courses provide opportunities for engendering understanding of many important STEM concepts as well as job-related training.

Educator Development Track
9:30 am – 1:30 pm
Boca 4

• Developing STEM and Higher Education Interest with Middle School and High School Summer Programs
How can universities collaborate with K-12 Indian Education programs and foundations to provide hands-on experiences for Indigenous students interested in exploring STEM issues and higher education? Colorado State University has developed summer programs specifically for Indigenous middle and high school students that strive to be culturally relevant and increase academic expectation. These collaborative programs are examples of when academia and community come together to press beyond status quo and encourage Indigenous students to transcend obstacles and barriers to STEM fields. This interactive session will include a panel of students who have been through the programs as students, junior mentors and mentors. Program Coordinators will share insights on the planning, implementation and collaborative process in order to help attendees develop similar programs or gain insight into current programs.
Using Collaboration to Increase STEM Engagement for Girls
In this interactive, dynamic session, facilitators will lead activities and discussion to demonstrate the National Girls Collaborative Project (NGCP) model for sustainable collaboration among cross-sector stakeholders. Collaboration is a key strategy for leveraging resources and strengthening the capacity of professionals to provide high-quality activities to K-12 girls in science, technology, engineering and mathematics (STEM). Participants will engage in hands-on activities designed to facilitate collaboration and leverage resources and expertise; learn about current research on collaboration and the importance of collaboration in engaging girls in STEM; and hear from the lead of the Louisiana STEM Girls Collaborative Project for a local perspective.

Development, Subsistence and Culture: Sharing Alaska Native STEM with Educators and Classrooms through Multimedia
The Alaska Natives of Bristol Bay have many practices rooted in traditional knowledge that has been passed down through the generations. Healing plants and medicinal herbs, techniques for subsistence hunting/gathering, nutrition, and an understanding of the lands and waters are examples of culturally based Alaska Native STEM.

To bring this type of material into the modern classroom, a variety of multimedia formats are needed to engage multiple audiences and age groups. BBNC has utilized new media for several projects in the past, including “Day in Our Bay” and Pebble Watch. Our next goal is to leverage this experience to create STEM-based multimedia curricula and materials that will be available to educators around the world.

Why Native STEM Educators Matter: Teach for America’s Native Alliance Initiative and STEM Work
Something sparked your interest in STEM. Was it an incredible teacher? Only 1 percent of the teaching force is American Indian, Alaska Native, or Native Hawaiian and only 50 percent of teachers who teach STEM have a background in their subject. Teach For America, a national organization committed to combating educational inequities and ensuring all children have access to educational opportunities, launched its STEM Initiative in 2006 and Native Alliance Initiative in 2010 to serve our communities’ needs. This session will serve to shed light on “teaching” as a STEM career and brainstorm ways to increase the Native STEM teacher pipeline.

How You Can Use Robotics to Inspire and Motivate Students to Learn More about STEM
As President of the Robotics Education & Competition (REC), Jason Morrella leads a global STEM organization that in six years has demonstrated unparalleled growth in scope, reach and access. There is much more than designing, building and competing with robots. The 700+ VEX Robotics Competition events presented by REC Foundation present myriad teachable moments, multiple opportunities for learning and significant life-changing experiences for program participants of all ages. Learn about the mission of the REC Foundation and its programs that are open to students of all kinds in all 50 states and in 32 countries around the world. Find out how you can get involved supporting events, starting a team or as a volunteer, and connecting with AISES pre-college chapters that are already familiar with robotics as an on-ramp to STEM studies and careers.

GM Test Track at Epcot Center (tour participants will be bused to Epcot)
9:00 am – 2:00 pm
Meet the bus under the Porte-Cochere in front of the Caribe Royale Convention Center.

Chapter Advisors Meeting
10:00 am – 12:00 pm
Boca 8
Chapter advisors enjoy this opportunity to share questions, insights and best practices about how to effectively support AISES campus chapters.

Oral Research Presentations
10:30 am – 3:00 pm
Curacao 3 – 8
Undergraduate and graduate students with experimental research-based presentations showcase their research and inspire their peers. Audience encouraged!
General Members Meeting  
11:00 am – 12:30 pm  
Boca 3
All AISES General Members are convened to our annual meeting. General Member status will be checked at the door.

Professional Development Track  
11:30 am – 3:30 pm  
Boca 5 & 6

- **Transcending Boundaries: Connecting Natives in STEM with Native Communities**  
  11:30 am – 12:30 pm
  Do you have a desire to give back and support your Native community with your STEM career, but aren’t sure how? Join us as we discuss blending our passions and STEM career skills to TRANSCEND perceived barriers. Inspired by successful projects with indigenous communities in India, we strive to promote informational/cultural collaboration with Native communities. This project-based session adopts Deendayal Research Institute methods to promote culturally relevant collaborations similar to Engineers Without Borders. Participants are encouraged to explore, connect and build relationships between their STEM careers and their communities. The ultimate goal is to TRANSCEND to new levels of innovative solutions using Native perspectives and develop unique scientific approaches that work within cultural context.

- **Life Changing Power of Successful Investing**  
  12:30 pm – 2:30 pm
  Paul Merriman, President of the Merriman Financial Education Foundation is a nationally recognized authority on personal finance. Merriman will give an overview of the philosophy, methods and tools to make sound, informed decisions in the best interest of the small investor and to successfully implement their retirement saving plan. 401K plans and personal saving and investment will be covered. Key investment terminology will be defined. Handouts will be used to illustrate key points in the presentation. Those attending the session will be given Merriman’s book: “Financial Fitness Forever” as a practical guide to personal investment.

- **Influential Communication: Effectively Influencing to Make Things Happen**  
  2:30 pm – 3:30 pm
  If you’re a leader, you are an influencer. The most important capacity you possess is the ability to influence behavior... that of yourself or others. Join our session to learn how to effectively influence to make things happen!

Résumé Room sponsored by Lockheed Martin  
9:00 pm – 3:30 pm  
Hibiscus Room

Native Artisan Marketplace  
12:00 pm – 5:00 pm  
Caribe Royale Convention Center Lobby

Rainbow Gathering  
12:30 pm – 2:00 pm  
Bonaire 7 & 8
AISES 3rd Annual Rainbow Gathering. Through this gathering we will create a “Safe Space,” giving attendees the opportunity to share and to foster change. The Rainbow Gathering celebrates who we are, in the context of our Native traditions, and gives support to Lesbian, Gay, Bisexual, Transgender (LGBT) persons and their Straight Allies. By removing barriers, AISES hopes to strengthen our organization as we promote the American Indian and Alaska Native presence in the STEM Fields.
Lunch on Your Own
12:30 pm – 1:30 pm

Exhibitor Orientation
2:00 pm – 3:00 pm
Boca 3
This fast-moving briefing will tell exhibitors everything they need to know to have a successful show. Show management will cover such topics as registration numbers, the best places to network and all the other burning questions. Official vendor representative will also be present.

Student Orientation
2:00 pm – 3:30 pm
Caribbean Ballroom 1 & 2
Come and learn how to make the most out of your National Conference experience. Required for all students.

Opening Ceremony featuring Keynote Speaker Notah Begay III
3:30 pm – 6:00 pm
Caribbean Ballroom 3-8
Highlights include the keynote address, the regions’ spirit stick competition and greetings from Tribal leaders and AISES partners.

Dinner on your Own
6:00 pm – 7:30 pm

Gemstone Sponsors Reception
6:00 pm – 7:30 pm
Caribbean Ballroom 1 & 2
AISES Sponsors provide tremendous support to this conference and to our mission. All Conference Sponsors are invited to this reception in their honor.

Networking Suites
7:30 pm – 9:30 pm
Bonaire & Curacao Rooms
This “buffet-style” networking event offers a series of simultaneous receptions. Join conversations and meet others with common interests and careers... a great chance to build new relationships!
Visit one or all of them:

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Friday, November 14

Conference Registration
7:00 am – 5:00 pm
Caribe Royale Convention Center Lobby

Continental Breakfast
7:30 am – 9:00 am
Caribe Royale Convention Center Lobby

Fun Walk sponsored by Merck
8:00 am – 9:00 am
Please meet under the Porte-Cochere in front of the Caribe Royale Convention Center.

Pre-College, Undergrad and Graduate Poster Presentations
8:00 am – 12:00 pm
Grand Sierra Foyer

Career Opportunity Fair
9:00 am – 3:30 pm
Grand Sierra Ballroom
Over 180 exhibitors in the largest career fair in Native communities. Exhibitors offer a vast array of opportunities, which include research, scholarships, internships, employment and more.

Résumé Room sponsored by Lockheed Martin
9:00 am – 3:30 pm
Hibiscus Room

Native Artisan Marketplace
10:00 am – 6:00 pm
Caribe Royale Convention Center Lobby

Buffet Lunch
11:30 am – 1:30 pm
Boca Patio and Foyer
Ignite Sessions

12:30 pm – 1:30 pm
Caribbean Ballroom 1
Enlighten us, but make it quick!! These exciting 5 minute presentations are a fun-filled, informative burst of activity. Come see for yourself just what Ignite is all about!
• Decision Support on Getting Things Done!
• High School STEM Module Geared Toward American Indian and Alaskan Native Students
• The New Era of Medicine… How Will YOU Fit In!!?
• Leadership- Born with it? Or, Can it Be Learned?
• Circle of Concern: Remaining Positive & Proactive During Change
• Navigating a Course through the Pathways Program
• Employee Resource Groups
• STEMing with Robotics
• Identifying the Right Career Path for You
• Learning How to Juggle

Exhibitor Feedback Session sponsored by Winds of Change Magazine

3:30 pm – 4:30 pm
Curacao 5
Give us your feedback and be entered into a drawing for a $1,000 gift card!

Men’s and Women’s Talking Circles

4:30 pm – 6:30 pm
Boca 1 & 2 (Men’s) and Boca 5 & 6 (Women’s)
A traditional forum for conference participants to reflect on and share their conference experience. For many, this cultural practice is a way to give thanks and align your mind, body and spirit.

Professional Members’ Dinner (Tickets Available)

7:00 pm – 9:30 pm
Caribbean Ballroom 2
Networking and other fun activities over dinner for AISES Professional Membership on Friday evening. Cost per person: $60, tickets can be purchased at the AISES merchandise booth.

Regional Student Caucuses

7:00 pm – 8:00 pm
Boca 3, 4, 7 & 8 and Bonaire 1-8
AISES students are invited to gather by region to discuss issues of interest, as well as plan for their upcoming regional conference. This is a student event, and while professional members and corporate partners are welcome to attend as observers, they are not eligible to vote and do not have presenting privileges.

Social Celebration and Dance Contest

8:00 pm – 11:00 pm
Caribbean Ballroom 3
Saturday, November 15

Conference Registration
7:00 am – 11:00 am
Caribe Royale Convention Center Lobby

Sequoyah Fellows Breakfast
7:30 am – 10:30 am
Caribbean Ballroom 3
The Sequoyah Breakfast is an AISES National Conference tradition where we honor incoming Sequoyah Fellows. The Sequoyah Fellowship program was named in memory of Sequoyah, the great Cherokee Indian who perfected the Cherokee alphabet and syllabary in 1821, resulting in the Cherokee nation becoming literate in less than one year. In this spirit, AISES Sequoyah Fellows are recognized for their commitment to AISES’ mission in STEM and to the American Indian community. They bring honor to AISES by engaging in leadership, mentorship and other acts of service that support the students and professionals in the AISES family. Sequoyah Fellows are also lifetime members of AISES.

Yoga Class sponsored by Merck
7:30 am – 8:30 am
Caribbean Ballroom 1 & 2

Continental Breakfast
8:00 am – 9:30 am
Caribe Royale Convention Center Lobby

Concurrent Sessions Block 1
9:00 am – 10:00 am
Boca & Bonaire Rooms

• Agricultural Productivity Needs to Transcend Limiting Resources - Bonaire 1
  Corn (Zea mays) is a food staple. It will be used as a vehicle to take the audience from plant science through the chemistry of ethanol to the physics of its explosive nature that fuels our transportation. Agricultural Science is critical to the survival of our species. Participants will see the value of the acronym STEAM (Science, Technology, Engineering, Agriculture and Mathematics) and how and why USDA/Agricultural Research Service (ARS) labs nationwide provide vital applications of research to benefit both producers and consumers.

• STEM Careers: How to Find Your Passion - Bonaire 2
  If you are wondering how to answer the question “What are you going to major in at college?” this is the presentation for you. The speakers will share their stories on how they transitioned from high school to college and graduate school. Come and hear about how their passion transcended into careers in the STEM field. They will also discuss the new technologies and novel research that is currently happening in their STEM fields.

• Do You Have a Paparazzi Résumé? Seeking Long-Term Relationships in a Superficial Industry - Boca 1
  Managers are actively searching for someone who has already solved the problem or need they are facing. Dirt speaks louder than a good résumé and references — many companies are digging deep on the web to find out who you really are! Hiring great technical talent is a process of elimination. You must demonstrate that you are smart and doing great things to float to the top of the ocean of résumés.
Embracing Traditions While Transcending in the Corporate World - Boca 2
Native Americans have a very unique and rich heritage that will only flourish if we chose to carry forth our culture, beliefs and traditions—this is crucial as our unique identity should never fade. As we transcend into the corporate world we face a multitude of challenges! This workshop provides key concepts for developing techniques by applying collaboration and emotional intelligence. These concepts will strengthen your skills to become a positive and confident professional leader whether it’s in an individual or team environment.

Mentoring vs. Sponsorship: What is the Difference? - Bonaire 3
Throughout your career, you will receive feedback, guidance and advice from peers, managers and senior leaders. This advice will range from what skills to develop, what relationships to build, what position to take, and what your next step in your career progression should be. Some of these individuals will become your mentor while another will become your sponsor. However, many people wonder what the difference is between a mentor and a sponsor. In this session, we will explore the differences and similarities between mentors and sponsors, how to find one and determine when/if you should have a mentor and a sponsor.

Alaska Native Science & Engineering Program (ANSEP) Longitudinal (Middle School-PhD) Model - Bonaire 4
ANSEP is a longitudinal education model that provides a continuous string of STEM components from middle school to graduate school because a fragmented approach that focuses on one academic level is not adequate to deal with the scope of the problem. ANSEP links academic performance to every component. In K-12, ANSEP focused on incentivizing students to complete the coursework they need for success in STEM degree programs. ANSEP students at every level are successful at rates far exceeding national numbers. For example, 83 percent ANSEP Middle School students complete Algebra 1 before finishing the eighth grade. The national average is 26 percent.

Funding Your Graduate Education: Hear About Fellowship and Summer Research Opportunities - Bonaire 7
This panel is designed to provide information about fellowships, paid research opportunities and professional development opportunities for graduate students and prospective graduate students in the STEM fields. You will hear directly from a former student about her experience securing funding. You will also hear from two expert program managers who will provide tips on the application process. You will leave the session with a better understanding of the different types of funding sources available, as well as a better understanding of navigating the application process and making the most of opportunities associated with a variety of funders.

Developing and Sustaining Tribal Energy Programs - Bonaire 8
Today, Native American tribes are tackling to foster their own capacities for energy development and consumption. Unfortunately, in most cases, tribes lack the resources and expertise to control and manage their energy resources and power transmissions on their lands. This presentation will address how tribes can compensate for and overcome current and future power challenges by considering alternative energy sources, learning best management practices and involving Native American students in STEM fields to become utility managers, engineers and experts who can design and implement sustainable energy projects.

Engaging American Indians and Alaska Natives Along the Medical Education Continuum - Boca 3
The number of American Indian and Alaska Natives enrolled in medical schools has declined over the past 20 years. Learn what the Association of American Medical Colleges (AAMC) and programs such as the Summer Medical Dental Education Program (SMDEP) are doing to increase the pipeline for American Indians and Native Students.

Sloan Indigenous Graduate Program: Transforming Lives of Native Students through Graduate School - Boca 4
American Indian and Alaska Native students have long been underrepresented in graduate school. In an effort to increase the number of underrepresented minorities in STEM fields, the Alfred P. Sloan Foundation partnered with the University of Alaska, Montana University System (University of Montana, Montana State University and Montana Tech) and Purdue University to create the Sloan Indigenous Graduate Partnership (SIGP) Program. Come learn about academic, financial and cultural opportunities available through SIGP and hear from a student panel of SIGP scholars on the benefits and challenges they face.
• Empathy to Help Transcend Your Career - Boca 5
This session is targeted towards pre-college/college/graduate/medical school students, educators and professionals. Through our interactive session with video, attendees will transcend to take hold of the STEM opportunities that are before them for a better tomorrow for all of us.

• Submitting Résumés Online: How to Get Noticed - Boca 6
This session will leverage the “TedTalk” format and will help participants create resumes that will be noticed by Human Resources professionals. A Bank of America recruiter will share best practices for students applying for jobs within Corporate America.

• Funding Opportunities Available to Students, Post Docs and Faculty at the National Science Foundation - Boca 7
This presentation will hopefully answer all of your questions and help to demystify the National Science Foundation, a U.S. government agency that has for over 60 years supported basic science, engineering and education through grants and fellowships to students and faculty at our nation’s universities. In particular the opportunities available through the Graduate Research Fellowship Program (GRFP) will be highlighted as well as other programs that are available to undergraduate students, graduate students, post docs and faculty members. Since 1952, GRFP has provided fellowships to individuals selected early in their graduate careers based on their demonstrated potential for significant achievements in science and engineering. Three years of support is provided by the program for graduate study in science or engineering and leads to a research-based master’s or doctoral degree. The NSF expects to award 2,000 Graduate Research Fellowships in fiscal year 2015 under this program solicitation pending availability of funds. A major thrust of activity at the National Science Foundation is an effort to broaden participation of underrepresented groups in the science and engineering workforce. New opportunities are on the horizon and things are constantly changing so it is important to learn more about what is happening and how you can get involved.

Résumé Room sponsored by Lockheed Martin
9:00 am – 2:00 pm
Hibiscus Room

Native Artisan Marketplace
10:00 am – 6:00 pm
Caribe Royale Convention Center Lobby

Concurrent Sessions Block 2
10:15 am – 11:15 am
Boca & Bonaire Rooms

• Find Inspiration — Inspire Others - Boca 1
We all face obstacles that may keep us from achieving our goals. Many of us have the immediate goal of graduating from college with a STEM degree. How do we keep these obstacles from holding us back? What do we need to do to triumph over these obstacles and thrive?

• Pasta Project Management - Bonaire 1
Transcend the impossible and build a tower of pasta! You will experience the power of teamwork, collaboration and communication while competing to design, construct and test a tower of pasta. This exercise will allow you to meet and interact with all levels of AISES membership. Get to know fellow AISES members and join us as we compete in this interactive workshop.

• Building Your Best Résumé & Interviewing Tips - Boca 2
A presentation by Boeing and General Motors representatives. This discussion will include both companies’ hiring process, the structural interview and why it is used, what is assessed and how to prepare for it. The entire interview process will be broken down, along with mock interviews and résumé review.
• **Being Anchored in a STEM Field - Bonaire 2**
  A panel of American Indian scientists/engineers will discuss the direction of world business networks, being anchored and not needing to be located at the site to do your work. A panelist of American Indians that are a technologist, conservationists, engineers, and an IT entrepreneur will have thoughtful and respectful conversations of past experiences to help new and potential STEM professionals learn from other American Indian professionals’ life experiences in science and engineering.

• **How to Overcome Challenges in Graduate School Programs - Bonaire 3**
  There is plenty of information to get into a STEM graduate program but limited resources on how to survive in graduate school! Come and discuss issues you’ve encountered in graduate school. For those considering graduate school, learn tips on how to handle common issues that arise for AI/ANs. This interactive session will be open to all STEM fields, undergraduates, graduates and postdocs. There is plenty of information to get into a STEM graduate program but limited resources on how to survive in graduate school!

• **How to Have a Successful Internship - Boca 3**
  Do you know what an internship is and how it can work for you? Do you know what career you want when you graduate? Do you know where you want to work? Internships give you an opportunity to explore company’s and careers before graduation to help you make some of those decisions. Learn how to make your internship a success for you and your employer.

• **Beyond the Brainstorm: A Crash Course in Design Thinking - Bonaire 4**
  Have you ever wondered how unique ideas like self driving cars, 3-D printers and wearable technology are created? In this engaging session you will unlock your creative genius by learning the key steps to the design-thinking approach. Participants will be given unique scenarios that address real 21st-century issues. The group will work in small teams to brainstorm and develop solutions to relevant challenges and answer a set of questions that will promote discussions centered around design thinking.

• **Funding Opportunities with the National Science Foundation - Bonaire 7**
  This session will present various funding opportunities presented by the National Science Foundation (NSF) and discuss how attendees can apply for these funds to support their education or research. This information is useful to both students and professionals. For example, a faculty member could apply for funding from the research experiences for undergraduates program; these funded experiences are also of interest to students who want a research experience.

• **Peanuts Transcendent as an Energy Source. Are You Nuts? - Bonaire 8**
  Come burn a peanut and both see and feel how much energy is released by one calorie. We all know the word “calorie” and perhaps “count” calories but few people understand it. You will know more than you may care to when you leave this session, and your eating habits may change!

• **SeaPerch: Transcending Educational Boundaries - Boca 4**
  Looking for the STEM experience that will take your school to the next level? SeaPerch is the leading underwater robotics curriculum developed by MIT Ocean Engineering Professor Thomas Consi. Learn how your team can TRANSCEND educational boundaries and dive into the world of marine engineering!

• **CIA Presents Personal Branding - Boca 5**
  What is the first word or image that you want to come to mind when someone mentions your name? Your personal brand is about who you are and what is associated with your professional work. At this event, you will learn about personal branding. You’ll learn about organizational influence and how to build your influence profile. Additionally, the importance of situational self-awareness, environmental scanning and the “choice to act” will be discussed.

• **Best Practices on Creating a Summer Graduate Preparation Research Program - Boca 6**
  This session will provide attendees with a checklist on how to create a STEM summer graduate preparation research program. Attendees will leave with an understanding of best practices with planning, implementing and assessing the summer research program. This session is design to engage the audience in sharing our experiences of facilitating research programs.
• **Life Changing Power of Successful Investing** - Boca 7
  
  Paul Merriman, President of the Merriman Financial Education Foundation is a nationally recognized authority on personal finance. Merriman will give an overview of the philosophy, methods and tools to make sound, informed decisions in the best interest of the small investor and to successfully implement their retirement saving plan. 401K plans and personal saving and investment will be covered. Key investment terminology will be defined. Handouts will be used to illustrate key points in the presentation. Those attending the session will be given Merriman’s book: “Financial Fitness Forever” as a practical guide to personal investment.

• **Transcend Inequality: Creating Safe Spaces in Schools and the Workplace** - Boca 8
  
  Do you know what a Safe Space is? Do you know why they are needed? Come find out about the importance of creating a Safe Space for the lesbian, gay, bisexual and transgender (LGBT) individuals in schools and the workplace. Also, learn how to create an environment of safety, inclusion and diversity for everyone.

**Repeat Session: Life Changing Power of Successful Investing**

*11:30 am – 12:30 pm*

**Boca & Bonaire Rooms - Boca 7**

Paul Merriman, President of the Merriman Financial Education Foundation is a nationally recognized authority on personal finance. Merriman will give an overview of the philosophy, methods and tools to make sound, informed decisions in the best interest of the small investor and to successfully implement their retirement saving plan. 401K plans and personal saving and investment will be covered. Key investment terminology will be defined. Handouts will be used to illustrate key points in the presentation. Those attending the session will be given Merriman’s book: “Financial Fitness Forever” as a practical guide to personal investment.

**Veterans’ Caucus**

*10:30 am – 11:30 am*

**Bonaire 5 & 6**

AISES 2nd Annual Veterans Caucus – For Veterans who seek to address their specific issues as they seek guidance/assistance in either their path to STEM education or finding opportunities in STEM upon completion of their service obligation. And for our partners who wish to support and hire skilled, brave and honorable individuals who have served our country.

**Plenary Session for Students: Sponsored and Presented by 3M** *(includes lunch, limited to 500 students)*

*11:30 am – 1:00 pm*

**Caribbean Ballroom 1 & 2**

A great opportunity to learn more about 3M, a valued AISES partner. Learn about their business lines, programs, and opportunities while networking and enjoying lunch. Available exclusively to students.

**Lunch on Your Own**

*11:30 am – 1:00 pm*

**National Student Caucus**

*1:00 pm – 2:00 pm*

**Caribbean Ballroom 3**

AISES college students are required to attend the national student caucus, where members will vote on the next national junior student representative. This is a college student event, and while professional members and corporate partners are welcome to attend as observers, they are not eligible to vote and do not have presenting privileges.
Pre-College and Educator Caucus
1:00 pm – 2:00 pm
Grand Sierra Ballroom F & G
Join us for the 3rd Annual National Pre-College Student Caucus! The caucus is open to all pre-college students and educators. The caucus will focus on the future of AISES pre-college programs and attendees will be able to talk with AISES staff directly about any concerns.

Concurrent Sessions Block 3
2:30 pm – 3:30 pm
Boca & Bonaire Rooms

- **Interviewing Skills: Getting Recruited, Are You Ready?** - Boca 1
  Getting Recruited, Are you Ready? Do you know what to do to prepare for an interview? Do you know the most common types of interviews? Do you know what the most commonly asked questions by employers are? Do you know what to wear? All of your interview questions will be answered in this session.

- **Résumé 411: Practical Techniques to Get the Interview (USAJobs/Pathways Edition)** - Boca 2
  This interactive workshop will show the audience what employers are looking for in a résumé, review the proper formats that are recognized by automated résumé scanners, give a “behind the scenes” perspective on how hiring recruiters and managers look at résumés, provide an overview of the USAJobs website, and review the requirements of the Pathways Program.

- **AISES Graduate Students Unite!** - Bonaire 1
  Wondering what resources are available to start your graduate education*? Looking for ways to self-correct a third-year slump? Looking for a group of fellow AISES students who are blazing the trail of graduate life? We don’t have to go it alone! Join us to discuss how a dedicated group of AISES graduate students might offer ways to keep ourselves going, encourage future generations to come, and be successful beyond graduate school. *“Graduate education” is meant to broadly encompass degrees beyond an undergraduate education, including (but not limited to): master’s, law, medical, doctorate, etc.

- **From STEM to Finance: Making a Calculated Step in Your Career** - Boca 3
  This session will focus on applying your academic science background, in a perceived non-scientific industry. Participants will take a historic and future look into how the financial industry utilization of quantitative talent has evolved, and learn what the role of Quantitative Associates are at Bank of America.

- **Trascend Into Your Engineering Career** - Bonaire 2
  Learn how your can rise above the rest as you embark upon your professional career! We will develop a framework so you can better understand what careers are available for different sectors and companies. Also, we will discuss what you should expect as your progress in your chosen field. This has an engineering focus.

- **Digging for Yellow Cake: Impacts of Uranium Mining on Tribal Lands** - Bonaire 3
  Uranium mining anywhere poses significant environmental, economic and social risks. This presentation will examine uranium mining and milling operations on tribal lands that have left behind a tainted legacy of serious damage to the environment and human health. Other topics include hard-rock mining concerns and other extraction techniques that could result in cumulative impacts on water, air and cultural sites. Tribal case studies will be presented to draw attention to how tribes are rising above the devastation and destruction of overall past mining activities.

- **Achieve Your Dreams! The Road to Medical School and Other Health Professions Schools** - Boca 4
  Are you considering becoming a physician or pursuing another health professions career? We will help you realize that you can do this with discussion among your peers and stories of encouragement from those who have gone through this before you. There will also be information on how to prepare yourself for these schools. Through personal stories, and a new, innovative video project featuring Native American physicians, you will learn that you can achieve a career in the health professions. Come prepared to be inspired!
Southwestern Indian Polytechnic Institute (SIPI) seeks to meet the STEM (science, math, engineering and technology) educational needs of American Indian college students. In an effort to fulfill this mission, SIPI employs paid student internships not only to retain students majoring in the STEM fields, but also to encourage students in developmental courses to stay in college and pursue STEM careers. Students are linked to each other and to graduate students, instructors and industry professionals via the Vertically Integrated Pyramid (VIP) Model that SIPI’s Department of Advanced Technical Education has crafted to build the relationships and sense of community that are important to Native students. For their paid work on engineering-related projects, SIPI student interns are usually under the direction of graduate or post-doctoral students who also serve as mentors. Increasingly, the graduate students are SIPI alumni who are enrolled at nearby universities.

The motivation behind this panel is to embrace our traditional forms of learning and impart our acquired skills and knowhow using traditional storytelling in innovative learning modules, to provoke new insights and conversations, and to explore the cross pollination of the sciences that enables others to connect to our stories.

This session will cover lessons learned as we learn to embrace and navigate our leadership styles as Native American women in male-dominated fields. Leaders in their technical departments as well as in the American Indian Outreach Committee at Sandia National Laboratories, they will discuss their paths in becoming leaders and provide thoughts on how to continue to grow as female leaders in the STEM fields.

This session will feature two Native graduate students discussing their education, outreach and graduate research with Native communities, with a focus on water quality. The session will also describe opportunities for undergraduates across the NSF Science and Technology Center network.

The 2014 Professional Awards Ceremony recognizes exemplary leadership in STEM and in our community, while attendees celebrate a successful conference and enjoy a traditional regional dinner with the AISES family.

Join us for a night filled with information, history and fun! AISES is very proud to present an assortment of activities based on the traditions of the tribes from this year’s conference location in Florida. The evening will include:

• A brief history of the Miccosukee and Seminole tribes by Lee Tiger followed by his performance of his hit song, “Red Rocks the Earth”
• Traditional Miccosukee Stomp Dancers
• Live Performance by The Osceola Brothers
• Artisan Craft Tables
• Miccosukee Indian School Student Art Display