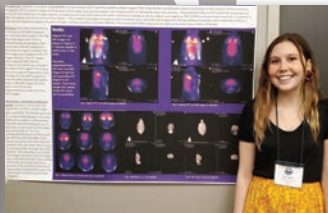




PROGRAM



AISES in Canada National Gathering

The AISES in Canada National Gathering is focused on two goals: building Indigenous Canadian leadership in STEM and expanding equitable and representative opportunities in all STEM fields. With 46 years of experience building leadership and community for Indigenous people in STEM, AISES works to increase representation through scholarships, trainings, networking, peer support, and mentorship at all levels of educational and professional experiences. The three-day event includes activities for high school students, university students, and professionals. Attendees enjoy keynote speakers, sessions, workshops, research posters, as well as morning blessings and traditional local food. The annual AISES in Canada National Gathering grows each year, with more interest from partners and attendees.

For more information visit: <https://aises.ca/>

Volunteers

AISES would like to express its gratitude for all the hard work from the AISES Canadian Indigenous Advisory Council planning committee, community partners and local universities for their volunteer services!

Myrle Ballard
Danilo Caron
Mindy Dallard

Matthew Dunn
Celeste Groux
Randy Herrmann

Melanie Howard
Joel Liman

Safe Camp and Code of Conduct

All conference participants are expected to adhere to the AISES standards of conduct. We invite all those who participate in any AISES event to help us create safe and positive experiences for everyone.

Safe Camp

AISES events are a "Safe Camp," meaning this is a welcoming, inclusive, supportive, and safe environment for all our AISES family members regardless of race, color, sex, religion, sexual orientation, or gender expression/identity. Safe Camp includes recognizing the AISES Code of Conduct and anyone found violating the code will be asked to leave the conference immediately. Please contact any AISES staff member or board member if you have any questions.

Code of Conduct

AISES was established with the goal of developing Indigenous professionals and leaders in the areas of science, technology, engineering, and math. Considering this goal, the first student leaders of AISES developed a set of principles that prohibited alcohol, illegal drugs, and harassment. These principles have become core values of the organization and are incorporated as the Code of Conduct.

The AISES Code of Conduct promotes professional development and personal growth by strictly prohibiting the use of intoxicating drugs or alcohol, all forms of harassment and discrimination, and encourages respectful and civil dialog and group discussions. The Code is meant to reflect the ideals of our Indigenous communities by establishing an expectation that we agree to protect and promote the well-being and growth of all people.

The Code is expected to be honored when individuals are representing the AISES organization and by all persons participating in AISES activities, events, and conversations. To this end, each person is asked to consider the spirit of the Code and promote its intent by refraining from prohibited activities and encouraging others to do the same.

AISES will continue to maintain the Code of Conduct as a symbol reflective of the teachings and values of our ancestors. The Code of Conduct represents the ideas and visions set-forth by the AISES founders and the student leadership. AISES values and respects the rights and privileges of others and asks that you honor the AISES organization, its mission, and the family of AISES by adhering to the Code of Conduct.



THANK YOU TO OUR SPONSORS

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Additional Exhibitors

AltaLink, a Berkshire Hathaway Energy Company

American University of the Caribbean Medical School and Ross University School of Medicine

AECOM | Jacobs

Queen's University

Verna J. Kirkness Education Foundation

Guiding Principles for Equity in Organizations

1. Acknowledge that culture plays a predominate role in living, learning, and working.
2. Recognize that conflict exists (even if we can't see it) between our professional discourses and the discourses of our students, peers, and colleagues – especially those from underrepresented cultures.
3. Acknowledge the benefits of diversity in perspectives, interpretations, solutions, and practices to improve our practice, our science, our schools, and our businesses.
4. Make a commitment to regularly explore different cultures – and not with the intention of coming to know or understand them (the other cultures) – but with an eye to understanding more about yourself.
5. Acknowledge how important it is to invite culture into your practice so people from other cultures are not asked (unfairly) to check their identities at the door to be successful.
6. Cultivate a supportive community (both inside and outside of your organization) that supports and grows your efforts toward equity.

Featured Speakers



Master of Ceremonies John Desjarlais Jr.

John Desjarlais Jr. is Nehinaw (Cree)-Metis from Kaministikominahikoskak (Cumberland House), Saskatchewan. John started his career in 2001 in the mining industry and worked in a variety of roles including environment and safety, maintenance, and reliability engineering management until moving onto to executive leadership where he now serves as a General Manager of an Industrial Construction Company. John's passion is in nation building and servant leadership strengthened by the values of Mino-Pimatisiwin (The Good Life). He proudly makes time for community and serves as President of his engineering and geoscience regulator (APEGS), and as Director/Chair in areas of Safety (Saskatchewan Construction Safety Association), Indigenous outreach/development/and engagement (Indigenous Manufacturing and Construction Network and Indigenous Resource Network and Post-Secondary (Sask Poly).



Welcome Banquet with Keynote Speaker Dr. Andrea Reid

Friday, March 3 - 5:45 p.m. - 7:30 p.m.

Dr. Andrea Reid is a citizen of the Nisga'a Nation, a descendant of the Gisk'aast (Killerwhale) clan, with her paternal family coming from Gingolx (daughter of Patrick Stewart, granddaughter of Phyllis Stewart). She was raised, however, on Epekwitk (Prince Edward Island) by her mother (of settler descent) and brothers, and now lives in the Nass River Valley, in Gitlaxt'aamiks, with her spouse, John-Francis Lane. Dr. Reid works today as an Assistant Professor of Indigenous Fisheries at the Institute for the Oceans and Fisheries at the University of British Columbia. There, she is leading a new unit – the Centre for Indigenous Fisheries – committed to a future where fish, people, and place all thrive together. Intergenerational, land-based, and relational approaches are all central to Dr. Reid's research, teaching, and service, with biannual land-based learning camps with Gingolx youth being a highlight of her spring and summer breaks.



Featured Speakers



Closing Dinner Keynote Speaker Dr. Jeannette Armstrong

Saturday, March 4 - 7:00 p.m. - 8:30 p.m.

Dr. Jeannette Armstrong, Associate Professor in Indigenous Studies and Canada Research Chair in Syilx Okanagan Philosophy. She is Syilx Okanagan, and as an award-winning writer and activist, novelist and poet is the recipient of the George Woodcock Lifetime Achievement Award for Literature. Her research in Indigenous philosophies and Okanagan Syilx thought and environmental ethics has been recognized locally and globally. She is a recipient of the Eco Trust USA Buffett Award in Indigenous Leadership and serves on Canada's Aboriginal Traditional Knowledge Subcommittee of the Committee on the Status of Endangered Wildlife in Canada (COSEWIC). A Lifetime Fellow of Okanagan College, she was also recently named to the Class of 2021 as a Fellow in the Royal Society of Canada.



REGISTER NOW

2023 AISES LEADERSHIP SUMMIT

April 30 - May 2, 2023

[HTTPS://SUMMIT.AISES.ORG](https://summit.aises.org)





March 2023

Dear AISES in Canada National Gathering Conference Attendees,

AISES is excited for our fifth annual conference in beautiful Vancouver, British Columbia! Following last year's conference postponement, we are genuinely grateful to be emerging from a pandemic haze to meet in-person in Vancouver. If this is your first AISES in Canada National Gathering, we extend a special "welcome."

With more than 630 First Nations communities in Canada, which represent 50 Nations and 50 Indigenous languages, we respectfully acknowledge that we are gathered on the traditional territories of the Cayuse, Umatilla, Walla Walla, Stó:lō First Nation, Hul'qumi'num Treaty Group, Tsleil-Waututh Nation, Musqueam, Squamish Nation, and Stz'uminus First Nation. First Nations people have lived in this place and surrounding areas for thousands of years. We respectfully acknowledge the ancient ones and express our gratitude to all who live here today.

Our conference theme is *Reclaiming Our Wisdom*. The theme is especially appropriate as this marks years of commitment to building a strong future for Indigenous students and professionals in science, technology, engineering, and math (STEM) across Turtle Island. By increasing opportunities, creating networks, and resources for Indigenous students and professionals in STEM, we are ensuring our young people have the educational opportunities and technical skills to undertake the many challenges facing First Nations people and their communities.

Over the next three days we encourage you to listen and learn from presenters who have come from the four directions to share their knowledge, experiences,



and expertise in over 60 planned activities, events, and sessions. Our presenters are prepared to discuss their creative ideas, answer questions, and ensure you feel welcome and included. Here is a brief overview:

- ✧ **Friday, March 3:** This is a full day for high school students with a variety of sessions, including research presentations. There will be a sprinkling of sessions for university students and professionals. Everyone is invited to join us for the Keynote Luncheon. Friday ends with a Welcome Banquet featuring Keynote Speaker, Dr. Andrea Reid.
- ✧ **Saturday, March 4:** Rise early for the Morning Blessing with our Esteemed AISES Council of Elders. Take advantage of more networking and education sessions, as well as a full day of both oral and poster research presentations. Participants can stay busy at information tables and other activities include a group photo and Closing Talking Circle. Find a seat at the Keynote Luncheon and the Closing Dinner with Keynote speaker Dr. Jeannette Armstrong.
- ✧ **Sunday, March 5:** During this special time and space gather at a second Morning Blessing along with more educational sessions, and a Closing Luncheon.

Throughout your time in Vancouver, we encourage all to participate, contribute, and make memories! AISES staff and volunteers will be around to welcome and help you, including at the conference registration desk. Connect with us whenever you have questions!

Again, thank you for joining us in Vancouver, British Columbia. We look forward to seeing you!

Gary Burnette
(Cheroenhaka Nottoway)
AISES Board Chair

Sarah EchoHawk
(Pawnee)
AISES President



Session Color Key - **High School** **Professional** **Research** **University**

Although all sessions fall within a specific track, track designations are only a suggestion! We encourage you to read through the program, especially the session descriptions, and attend ANY session suited to your interests. There are many sessions to choose from, so plan carefully, be strategic, and most importantly engage with your fellow conference attendees and presenters.

Full session and event descriptions and presenter biographies are listed in the AISES mobile app and on the aises.ca website.

QR Code Links to Online Agenda



FRIDAY

START - END	Session or Event	Tracks	Location
7:30 am - 5:30 pm	Registration (Closed during Lunch)	HS PRO UN	Regency Foyer
8:00 am - 6:00 pm	Student Study Lounge	UN	Balmoral
8:30 am - 4:30 pm	Elders Lounge - One on One with Elders	HS PRO UN	Oxford
8:30 am - 5:30 pm	Exhibitor Booths	HS PRO UN	Regency Foyer
9:00 am - 9:50 am	Careers in the Energy Industry at AltaLink, a Berkshire Hathaway Energy Company	UN	Regency E
9:00 am - 9:50 am	Developing community-informed, land-based STEM programs for Indigenous high school youth	HS	Georgia B
9:00 am - 9:50 am	Indigenizing Approaches in the Elementary and High School Science Classroom	PRO	Prince of Wales
9:00 am - 9:50 am	It's Getting Hot in Here: How Actuaries Manage Climate Risk	HS	Georgia A
10:00 am - 10:50 am	Centering Indigenous Students in High School STEM Experience Applications	HS	Georgia B
10:00 am - 10:50 am	Kip's Journey to Becoming an Engineer	HS	Georgia A
10:00 am - 10:50 am	Unfathomable Mysteries	UN	Regency E
11:00 am - 11:15 am	First Nations traditional uses of rocks and minerals – the beginning of mining in British Columbia	R UN	Regency E
11:00 am - 11:15 am	The Effects of Limiting Lipid Synthesis on T Cell Exhaustion in Cancer	HS R	Georgia A

Session Color Key - **High School** **Professional** **Research** **University**

START - END	Session or Event	Tracks	Location
11:00 am - 11:15 am	Toward a TribalCrit Informed Rubric for Evaluating K-12 Lesson Plans to Promote Indigenous Education for All Students	PRO R	Prince of Wales
11:30 am - 11:45 am	Cellular Stress Response Promotes Pancreatic Cancer Development	R UN	Regency E
11:30 am - 11:45 am	Energizing Our Reservation	HS R	Georgia A
12:00 pm - 1:00 pm	Lunch	HS PRO UN	Regency ABC
1:30 pm - 1:45 pm	Indigenous Food Insecurity	HS R	Georgia A
2:00 pm - 2:50 pm	Building Chapter Success	UN	Regency E
2:00 pm - 2:50 pm	STEM: Infrastructure opportunities in Canada	PRO	Prince of Wales
2:00 pm - 2:50 pm	The Verna J Kirkness Education Foundation	HS	Georgia A
2:00 pm - 2:50 pm	Why Our Communities Need More Indigenous Architects and Engineers	HS	Georgia B
3:15 pm - 3:45 pm	Student Caucus	UN	Georgia B
4:00 pm - 5:00 pm	Canadian Indigenous Advisory Council (CIAC) Meeting	PRO	Prince of Wales
5:45 pm - 7:30 pm	Welcome Dinner with Keynote Address by Dr. Andrea Reid	HS PRO UN	Regency ABC
7:45 pm - 8:45 pm	Networking Mixer	PRO UN	Balmoral

SATURDAY

START - END	Session or Event	Tracks	Location
8:00 am - 9:00 am	Morning Blessing with Elders	HS PRO UN	Regency D
8:00 am - 6:00 pm	Student Study Lounge	UN	Balmoral
8:30 am - 5:30 pm	Exhibitor Booths	HS PRO UN	Regency Foyer
9:30 am - 9:45 am	Common Ground: Learning from the Land	R UN	Prince of Wales
9:30 am - 9:45 am	Dissociating the effects of lung size and sex on the mechanics of breathing during exercise	R UN	Georgia A
9:30 am - 10:20 am	Changing Campus Culture for Indigenous Student Success	UN	Regency E



Session Color Key - **High School** **Professional** **Research** **University**

SATURDAY continued

START - END	Session or Event	Tracks	Location
9:30 am - 10:20 am	Decolonizing Archaeology to Promote Community Stewardship and Create Opportunities in Heritage Resource Management	UN	Plaza A
9:30 am - 10:20 am	Engineers Canada Guideline on Indigenous Consultation and Engagement	PRO	Plaza B
9:30 am - 10:20 am	I-STEAM Pathways: A journey to building an interdisciplinary summer internship	UN	Georgia B
9:30 am - 11:30 am	Registration	HS PRO UN	Regency Foyer
9:30 am - 3:00 pm	Elders Lounge - One on One with Elders	HS PRO UN	Oxford
10:00 am - 10:15 am	AI, Datasets, and You: The Indigenous Person's Role in the Age of Algorithms	R UN	Georgia A
10:00 am - 10:15 am	Searching for a Double Gravitational Wave Background	R UN	Prince of Wales
10:30 am - 10:45 am	Analysis and Characterization of Plant-Based Derived Nanostructure Carbon	R UN	Prince of Wales
10:30 am - 10:45 am	Bridging perspectives through action-focused art; anohc kipasikonaw we rise niipawi	R UN	Georgia A
10:30 am - 11:20 am	Braiding Indigenous Knowledge in Relation to Housing: A Collection of Works for Indigenous People	UN	Plaza A
10:30 am - 11:20 am	Indigenous Engagement in Practice – Engaging Indigenous People in Flood Mapping	PRO	Plaza C
10:30 am - 11:20 am	Kanatakon'ha: The story of Queen's AISES Rocket Team	UN	Georgia B
10:30 am - 11:20 am	Programs to support undergraduate Indigenous STEM students through mentorship, foundational skills and community building	UN	Plaza B
11:00 am - 11:15 am	Coalescing Tradition with Plant Biochemistry: Reconstructing Biosynthetic Pathways in Yeast	R UN	Prince of Wales



QR Code Links to Online Agenda

Session Color Key - **High School** **Professional** **Research** **University**

START - END	Session or Event	Tracks	Location
11:00 am - 11:15 am	Indigenous Heart and Cholesterol Health: Identifying Major Gaps in Research	R UN	Georgia A
11:30 am - 11:45 am	Mousebed and Anaesthetic Delivery System	R UN	Georgia A
11:30 am - 11:45 am	Moving on from the Consultation Model to the Consent Model in Canada	R UN	Prince of Wales
12:00 pm - 1:00 pm	Lunch with Speaker Pam Beaudin, Nutrien	HS PRO UN	Regency ABC
1:30 pm - 1:45 pm	Effects of continuous human presence on the Biodiversity and Functional Groups of Stream Macroinvertebrates	R UN	Georgia A
1:30 pm - 1:45 pm	Smaller, Smarter, and Safer Early Breast Cancer Detection in Remote Locations: The Design and Evaluation of a Portable Breast Cancer Screening Device	R UN	Prince of Wales
1:30 pm - 2:20 pm	An Introduction to Potash Mining and the Potential Career Opportunities	UN	Plaza B
1:30 pm - 2:20 pm	Exploratory Geoscience: Hands on ways to include Indigenous and Place-based Knowledge	UN	Plaza C
1:30 pm - 2:20 pm	Make an Edible Water Bottle! Learn about Sustainability, Design-Thinking, and Collaboration!	PRO	Plaza A
1:30 pm - 2:20 pm	Pathways in Undergraduate Research	UN	Georgia B
1:30 pm - 2:20 pm	Soaring Through Adversity with the Wings of Your Inner Strength	UN	Regency E
2:00 pm - 2:15 pm	Advancement of Rural Communities: A Southeastern U.S. Example	R UN	Georgia A
2:00 pm - 2:15 pm	Effect of diluting commercial finisher feed with different fiber sources and enzyme supplementation on broiler performance	R UN	Prince of Wales
2:30 pm - 2:45 pm	An Experimental Comparison of the Effectiveness of Various Levels of Simulator Fidelity on Ab Initio Pilot Training	R UN	Georgia A



QR Code Links to Online Agenda



Session Color Key - **High School** **Professional** **Research** **University**

SATURDAY continued

START - END	Session or Event	Tracks	Location
2:30 pm - 2:45 pm	Effects of catch-and-release angling on the expression of mRNAs related to metabolism, ion and acid-base regulation, and stress in lake trout (<i>Salvelinus namaycush</i>) gills	R UN	Prince of Wales
2:30 pm - 3:20 pm	Flip-Gridding the Script: Utilizing Technology to Foster Relationships With Indigenous Communities	UN	Plaza A
2:30 pm - 3:20 pm	Indigenous and Black Engineering and Technology (IBET) PhD Project	UN	Georgia B
2:30 pm - 3:20 pm	Integrating Indigenous Knowledge into Industrial Projects	UN	Plaza C
2:30 pm - 3:20 pm	Speaking Culture: Leadership and Communication in Professional Contexts	PRO	Plaza B
3:00 pm - 3:15 pm	Improving Temporal Graph Messaging	R UN	Georgia A
3:00 pm - 3:15 pm	Indigenous Soil Amendments	R UN	Prince of Wales
3:30 pm - 3:45 pm	Empower Your Future: GeoComply Technical Internship and International Graduate Leadership Programs	R UN	Georgia A
3:30 pm - 3:45 pm	Two-Eyed Seeing in Engineering Research	R UN	Prince of Wales
4:00 pm - 4:15 pm	Co-developing a culturally-relevant framework for watershed health assessment with Lower Fraser First Nations	R UN	Georgia A
4:30 pm - 4:50 pm	Group Photo	HS PRO UN	TBA
5:00 pm - 6:30 pm	Closing Talking Circle	HS PRO UN	Regency D
7:00 pm - 8:30 pm	Closing Dinner with Keynote speaker Dr. Jeannette Armstrong	HS PRO UN	Regency ABC



QR Code Links to Online Agenda

Session Color Key - **High School** **Professional** **Research** **University**

SUNDAY

START - END	Session or Event	Tracks	Location
8:00 am - 9:00 am	Morning Blessing with Elders	HS PRO UN	Regency D
8:30 am - 11:30 am	Exhibitor Booths	HS PRO UN	Regency Foyer
9:15 am - 9:30 am	Project Delivery with Indigenous Communities and Methods of Incorporating Indigenous Ways of Knowing	R UN	Georgia A
9:15 am - 10:05 am	Co-curricular programng as an asset for Indigenous STEM student success	UN	Plaza A
9:15 am - 10:05 am	Partnerships & Community - Effectively Supporting Indigenous Inclusion in Projects	PRO	Plaza C
9:15 am - 10:05 am	The Brain Recirculation Line: Building a Career in the U.S.	UN	Plaza B
9:30 am - 11:00 am	Elders Lounge - One on One with Elders	HS PRO UN	Oxford
9:45 am - 10:00 am	Where does the P go? Patterns of phosphorus during a spring flood in the Lake Winnipeg Basin	R UN	Georgia A
10:15 am - 10:30 am	Miyo-wicéhtowin and Duty to Consult	PRO R	Georgia A
10:15 am - 11:05 am	AISES Opportunities for Students	UN	Plaza B
10:15 am - 11:05 am	Indigenous Airport Managers Needed! The Science, Engineering, and Health Wisdom Required to Become an Airport Manager	UN	Plaza C
10:45 am - 11:00 am	Effect of heat treatment on the microstructure, conductivity, and mechanical properties of cast aluminum alloy A356	R UN	Georgia A
12:00 pm - 1:00 pm	Lunch with Closing Remarks	HS PRO UN	Regency ABC



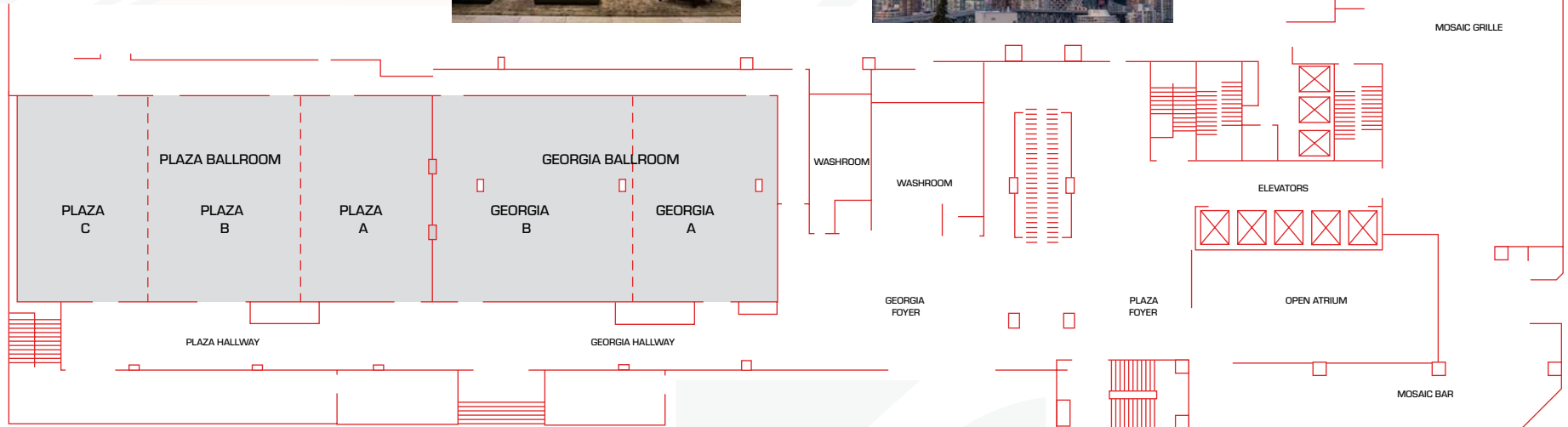
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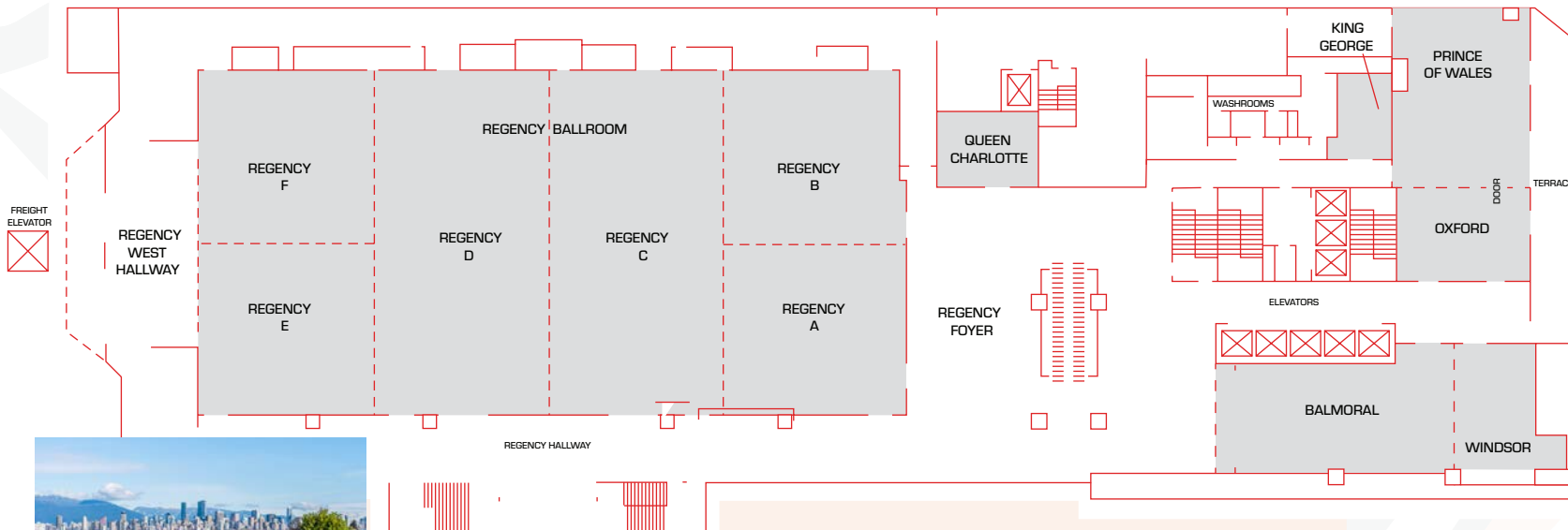
AISES in Canada National Gathering Ends - Safe Travels!

FLOOR PLAN

Plaza Level (Second Floor)



Convention Level (Third Floor)



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(Chickasaw, Choctaw)
Student Success Program Officer

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Student Success Program Coordinator

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Director of Research and Career Support

Brittany Anderson
(Fond du Lac Band of Lake Superior)
Research and Career Support Senior Program Officer

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(Cherokee, adopted Osage)
Research and Career Support Program Officer

Sky Wildcat
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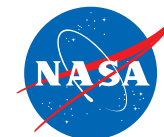
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NEW MEXICO OFFICE
6321 Riverside Plaza Lane NW, Unit A
Albuquerque, NM 87120
T: 505.765.1052
F: 505.765.5608



COLORADO OFFICE
7007 Winchester Circle, Ste. 100
Boulder, CO 80301
T: 720.552.6123
F: 720.526.6940