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2017-18

MINING & EXPLORATION

Directory



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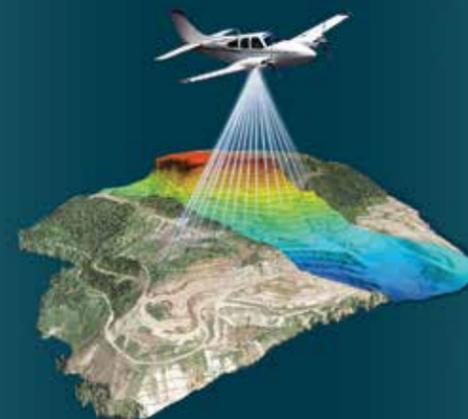
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Yukon has a long and rich history of mining

Yukon's mineral potential and investment attractiveness has brought five of the world's top ten gold mining companies to our territory.

We are excited with this rejuvenation of interest in the mineral sector and are looking forward to the new mine developments that will provide numerous benefits to our territory and its people.

The Yukon government is working to put the proper supports in place so that exploration and mining can continue to surge forward.

We will ensure Yukon's regulatory process is effective, while maintaining responsible development that reflects the values of Yukoners and respects the rights and culture of First Nations.

Yukon has a long and rich history of mining, and an even longer and richer history of First Nations culture, stewardship and traditional economies. We have made a government-wide commitment to build strong relationships with First Nations governments.

With us all standing strong together, Yukon is a great place to invest and a great place to do business.



Ranj Pillai
Minister of Energy,
Mines and Resources



YUKON CHAMBER OF MINES President's Message

THE YUKON CHAMBER OF MINES (YCM) proudly presents another iteration of our annual mining directory, a tool seen by many as required reading for working in the Yukon mining industry. We hope you, as many others have, find this directory useful as we enter the 2017 field season.

Last year saw many bridges built in the search for solutions to many of our industry's greatest challenges. Forging new relationships and strengthening old ones has been the key to carving a path to a brighter future. With support of our many initiatives, YCM has seen engagement across the board from our supporters and many partners. Beginning with a successful Yukon Mining and Geology Week, we have seen an increase in community attendance and a growing interest in the innovations made in our industry. Stronger than ever is the engagement during our 2016 Geoscience Tradeshow and Forum, at which a resounding number of Yukoners of all ages attended our annual "Family Day" and were witness to innovative technology presented by our many exhibitors, some seen within this very publication.

If 2016 was the year of building bridges, then 2017 and 2018 will be the years of crossing them. With the increasing support from community and industry, we will begin to create an environment of collaboration and mutually beneficial coexistence in the coming years. We look forward to continuing to build these new relationships and create economic growth—not only within our industry, but the Yukon over.

As a non-profit organization, a large portion of the Chamber's funding comes from the support of our members. On behalf of the board of directors and staff at the Yukon Chamber of Mines, I would like to thank each company, organization, and individual whose membership dollars enable us to continue lobby efforts on your behalf while at the table with policy and decision makers at the community, territorial, and federal levels. The Yukon Chamber of Mines will continue to strengthen its voice as a representative of Yukon's modern, responsible mining industry.

Sincerely,

Mike Burke
President, Yukon Chamber of Mines



Jutta Hopkins-Lecheminant

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REPRESENTING THE TERRITORY

Update from the Yukon Chamber of Mines



THROUGHOUT THE PAGES of the *Yukon Mining and Exploration Directory*, with a distribution across Canada exceeding 12,000 copies, you will find stories and photos which articulate the technology, innovation, and progressive partnerships of our industry. The directory is a testament to the growth of Yukon mining, as well as the Chamber organization that represents our industry. As our industry sees break-

throughs in collaboration and innovation, so does our directory, with additional companies listed and content enriched.

In 2016, Yukon's mineral exploration and deposit expenditures totalled \$87.9 million, while preliminary estimates for 2017 predict that number to increase based on projections from Natural Resources Canada. We have seen four major mining companies over the course of last year enter the Yukon marketplace, starting with Goldcorp's (TSE: G) \$520 million dollar share purchase of the Coffee Creek property from Kaminak Gold Corporation. That acquisition was then followed by Agnico Eagle's (TSX, NYSE: AGM) \$14.52 million investment into White Gold Corporation, Newmont Gold's (NYSE: NEM) \$39.5 million investment into Gold Strike Resources, and Barrick Gold's (TSE: ABX) \$8.3 million deal with ATAC Resources. This now places the world's top three gold producers setting up shop in Yukon in less than 12 months.

Last year was also significant for the Yukon Chamber of Mines. We saw success with the Our Yukon (*ouryukon.ca*) communications campaign and the release of numerous educational videos highlighting the benefits of a healthy mining industry in the areas of innovation, First Nations

collaboration, and environmental sustainability. Over the course of 2016, we also experienced meaningful collaboration with Yukon First Nations and the Government of Yukon. Together we will continue working on issues of mutual interest, including improvements to Yukon's assessment and permitting regimes. We are the industry on the front lines of reconciliation, as miners are on the doorstep of every Yukon First Nation's traditional territory. It is incumbent upon us to work collaboratively and respectfully to make Yukon the most successful and progressive jurisdiction to mine in the world.

All of us at the Yukon Chamber of Mines would like to take this opportunity to thank our members, volunteers, and sister organizations as well as many others for their support as we continue building on Yukon's competitive advantages and reputation as a progressive jurisdiction endowed with significant world-class deposits.

Sincerely,

Samson Hartland
Executive Director
Yukon Chamber of Mines

MATT DUMALA - DIRECTOR

Matt is a professional engineer and has been a partner of Archer, Cathro & Associates (1981) Ltd. since 2012. He started work with Archer, Cathro as a soil sampler, in 2003, in the Finlayson District and soon after began managing drill programs. More recently, his focus has been on advancing projects through the deposit-modeling, resource-estimation, and engineering stages.

Matt has played a key role in many projects throughout the Yukon, including in the advancement of ATAC Resources' Tiger gold deposit from discovery, in 2008, through to a preliminary economic analysis, in 2016. He has also been integral in designing and supervising exploration and engineering programs at Rockhaven Resources' Klaza project.

Matt graduated from the University of British Columbia with a degree in geological engineering and is a member of the Society of Economic Geologists and Canadian Institute of Mining, Metallurgy, and Petroleum.

BUDDY CRILL - DIRECTOR

Buddy is the mine general manager for Goldcorp's Coffee mine project located 130 km south of Dawson City. Buddy and his family relocated to Whitehorse from Mexico City in August 2016, following Goldcorp's acquisition of Kaminak Gold and the Coffee mine project. Buddy has a bachelor's of science degree in electrical engineering from the University of Idaho and has 24 years of progressive industry experience in both the mining and electric-utility sectors. Prior to his current role at the Coffee project, he was the director of operations support for Goldcorp's Latin American region, where he worked with the Latin American mine managers to implement improvements in operations, asset management, maintenance, energy, technology, and supply chain. Prior to joining Goldcorp, in early 2015, Buddy worked for Barrick Gold at the jointly owned (60% Barrick, 40% Goldcorp) Pueblo Viejo mine in the Dominican Republic and at Barrick's Cortez mine in Nevada. Buddy's roles at the Pueblo Viejo mine included asset manager and energy manager, and he was a member of the commissioning team. Buddy has also worked for UniSource Energy in Arizona, Kennecott Minerals in Alaska, M3 Engineering in Arizona, and Power Engineers in Idaho.

Buddy is serving as a director for the Yukon Chamber of Mines and on the governing council for Yukon College's Center for Northern Innovation in Mining. In his spare time, Buddy enjoys spending time in the great outdoors with his wife and two kids.

KENDRA JOHNSTON - DIRECTOR

Kendra is a professional geologist and manager of corporate development with Independence Gold Corp., a Vancouver-based exploration company. Prior to her time with Independence, she was the investor relations manager and a geologist for Atna Resources and worked as a geological assistant with the British Columbia Geological Survey. Kendra graduated with a bachelor's of science degree in earth and ocean sciences from the University of Victoria and received her master's of business administration degree from the Smith School of Business at Queens University. Kendra has experience in both the technical and business aspects of the industry and has recently completed the Queens International Executive Program in mining leadership and a certificate in corporate social responsibility.

Kendra has been an active volunteer throughout her career and been a member of the Association for Mineral Exploration British Columbia's (AMEBC) RoundUp organizing committee for the past 13 years. Currently, she is vice-chair of the board of directors, chair of the RoundUp organizing committee, and a member of the finance committee. Kendra is also an elected director of the Yukon Chamber of Mines, AMEBC's Yukon counterpart. In recent years, Kendra has acted as a mentor to university students in many capacities, but notably as the industry representative for the University of British Columbia School of Economic Geologists chapter and as a guest lecturer at various schools.

In her spare time, she is an official with Skate Canada's BC-Yukon Section, lending her time and figure-skating passion to future generations.

JOHN MCCONNELL - DIRECTOR

John has more than 35 years of mining experience, mostly spent in Canada's northern territories. Previously, he was president and chief executive officer of

Western Keltic Mines until it was acquired by Sherwood Copper. During his career, he was vice-president, Northwest Territories Projects, for De Beers Canada where he was primarily responsible for the permitting and development of the Snap Lake Diamond Mine. His experience also includes 12 years with Breakwater Resources Ltd. (Nanisivik Mines Ltd.) in operations at the Nanisivik zinc and lead mine on the northern tip of Baffin Island, and he spent six years with Strathcona Mineral Services Ltd., where his work included engineering, feasibility studies, and project development.

John is a graduate of the Colorado School of Mines, with a bachelor's of science in mining engineering. Currently, he is also a director of public companies at Hudson Resources Inc. and Abacus Mining & Exploration Corp. A strong advocate for the mining industry, John is also a director at industry organizations such as Klondike Placer Miners' Association, Yukon Chamber of Mines, and the Mining Association of Canada.

JOHN SMALL - DIRECTOR

Small's Expediting Services provides logistical and transportation support to the exploration, mining, and oil and gas industries in Yukon. John joined the board as a small business representative. He believes the Yukon Chamber of Mines has a major role to play in protecting, developing, and advancing the Yukon's aforementioned industries. As a director and representative of small businesses working in the industry, John can contribute and advance the objectives of the Chamber.

ALLAN DOHERTY - DIRECTOR

Al has been working as a field geologist in the Yukon since 1980. He has been very active with the Yukon Chamber of Mines since 1986 and served as president from 1988-1989 and 1991. Al was a member of Yukon Minerals Advisory Board from 2003 to 2009 and the Yukon regional director for the Prospectors & Developers Association of Canada from 2000 to 2009. Al was also involved with the inception of the Yukon Mine Training Association and first board chair in 2006. Al is well known by many First Nation leaders.

YUKON CHAMBER OF MINES Board of Directors

MIKE BURKE - PRESIDENT

Mike has been the chief geologist for Golden Predator Mining Corp since 2011. Prior to joining Golden Predator, Mike was employed by the Government of Yukon, beginning in 1990, most recently as the head of mineral services for the Yukon Geological Survey. Mike was responsible for liaising with prospectors and mining and exploration companies, visiting active exploration sites, authoring the annual Yukon Mining, Development, and Exploration Overview, and presenting information on Yukon to investment bankers, financial institutions, and mining analysts in meetings and conferences around the world. Mike has worked since 1983 in the mineral exploration and mining industry in British Columbia and Yukon. He was fortunate to be part of the exploration team which discovered the Sa Dena Hes lead-zinc mine and the Ketza River Gold Mine in Yukon. Mike worked at the Ketza River Gold Mine from exploration through mine development, production, and closure as the mine geologist before joining the Yukon Geological Survey, in 1990.

Mike holds a bachelor's of science in geology from the University of British Columbia, is a professional geologist with the Association of Professional Engineers and Geoscientists of British Columbia, and a member of the Society of Economic Geologists. Mike is

also a member of the Yukon College board of governors since 2011, a member of the advisory committee for the Centre for Northern Innovation in Mining at Yukon College, and a member of the technical advisory committee for the Yukon Geological Survey.

SUSAN CRAIG - VICE-PRESIDENT

Susan has over 25 years of experience in the Yukon, ranging from mineral exploration and permitting to construction and operation of mines. Susan is currently an appointed member of the Yukon Mineral Advisory and Yukon Energy Corporation boards, a Yukon Women in Mining champion, and on the board of the Association of Mineral Exploration British Columbia. Susan was honoured to receive the Yukon Chamber of Mines (YCM) Member's Award in 2012. Susan served as a director of YCM for many years. Her knowledge and experience in the Yukon provides a tremendous asset to the board.

RON K. LIGHT - VICE-PRESIDENT

Ron is the general manager of Capstone Mining Corp's Minto Mine and responsible for the overall management, direction, and coordination of the mine's operations. Ron has over 43 years of experience in mine management, mine engineering, operations,

maintenance, and mine expansions in both open-pit and underground scenarios. He holds a bachelor's of science, with a major in mining management, from the Pacific Western University of Louisiana and is a member of the Society of Mining, Metallurgy, and Exploration and the American Management Association.

MARY MIOSKA - DIRECTOR

Mary brings ten years of expertise in managing the environmental aspects of Yukon mining projects, from exploration through to operational-mine-site monitoring. She has a technical background in water-quality protection and permitting and direct Yukon experience in leading permit applications and compliance of local mining operations with territorial and federal regulations. Mary has an environmental engineering degree from University of British Columbia. Her master's thesis examined passive bioremediation of contaminated groundwater at a Yukon mine, with a focus on selenium and heavy metal removal.

Mary also sits on the board of the Yukon Women in Mining and the environment committees of both the Mining Association of British Columbia and the Mining Association of Canada.



THE YUKON CHAMBER OF MINES represents a dynamic membership and, since its creation almost 70 years ago, has worked to serve its valued members and advance the interests of all those involved in the Yukon mining industry.

As the trusted voice of mining, the Yukon Chamber of Mines thrives on the government, community, First Nations, and individual partnerships it forges to help facilitate an environment of responsible development—one in which its members can continue to contribute and prosper.

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» **Left:** Shelagh Rowles (inset) addresses guest at the opening ceremony in the industrial flexihall at the Centre for Northern Innovation in Mining. **Top:** The mobile training trailer allows students to certify in their home communities. **Bottom left:** The mine simulator allows students to practice skills learned in the field. **Bottom right:** Cory France pulls up diagrams on a tabletop monitor in a CNIM classroom.



CNIM ADAPTS TO TRAINING NEEDS

Industry as educators: Yukon College and partners train above ground and below at the Centre for Northern Innovation in Mining.

By Jessica Simon
Photos by Cathie Archbould

As mining exploration surges in the territory, Yukon College's Centre for Northern Innovation in Mining (CNIM) is building a 2,000-square-foot shop inside their 10,000-square-foot industrial hall to train machinists and millwrights.

"These are key skills for mining," says CNIM executive director, Shelagh Rowles. "For the past couple of years, the focus in the industry has been on remediation, but now the exploration phase is ramping up."

"Mines have to say, at the outset, how we're going to put the industry to bed after we've finished production," adds Rowles. "We'll need a qualified pool of testers."

To that end, CNIM is also developing an environmental-monitoring certificate to complement the work of geologists and drillers to provide the wildlife-monitoring and water-sampling skills the industry requires.

"We have to align training with industry needs, and we have to respond to the interests and needs of our First Nation citizens to fulfil their final agreements," says Rowles. "The industry wants people with transferable skills, and our students know they'll be more valuable employees if they're multi-talented."

Rowles compares program development to raising a garden. "You have your core crops that will always be planted,

with other elements that we can add in or take out."

Core-subject graduates, such as geotechnicians and heavy-equipment mechanics, will always have work.

"As automation gains traction, we might not have the same demand for heavy-equipment operators in fifteen years as we have now," Rowles explains. "We need to project what will be required instead and expand our applications."

She points to drone technology as an example of a training need that was subtly articulated through careful observation.

"The use of drones has changed exploration perceptions," says Rowles.

Industry and industry associations, such as the Yukon Chamber of Mines, bring news of what's coming. Many of those companies, Goldcorp for example, operate internationally.

"They already have a fully automated mine in Mexico and they are poised to share and lead the way in training by partnering with us," says Rowles, adding that industry members are frequently seconded to instruct at CNIM.

Rowles also engages in outreach with colleges and universities throughout the circumpolar world. "Sweden is leading in industry-driven education and training with a well-established mining school. We are sharing information about the impacts of automation on the mining industry," she says.

And while Yukon College monitors effectiveness with external evaluations, Rowles says they know they're on the right track when industry opens their doors to CNIM.

"It's been a journey of partnerships all along the way and getting students to where the opportunities are," says Rowles.

Rowles notes that 90% of the students in the underground program are First Nations and their apprenticeship in the

communities' program, augmented by a mobile training trailer, has enrolment levels of 80–100% First Nation students learning in their home communities.

Wherever possible, the objective is getting students on the tools during training, as occurs through a partnership with the University of Alaska Fairbanks for underground-mine training at Delta Junction.

"Along with actual hands-on training, it gives students an idea of what it means to work two weeks in, two weeks out," says Rowles.

That training is reinforced with practice and skills improvement in one of two simulators the Mine Training Association donated to CNIM.

Rowles can also develop partnerships between faculties. "The culinary-arts-program graduates will make fabulous camp cooks," she says, adding the business administration department is training the industry's future auditors. "We can go to these departments and say this opportunity is coming up and look at training for mine-specific issues."

Rowles acknowledges that even the grade schools, who feed into CNIM, do a good job creating interest in youth.

"Probably our biggest strength is that we're excited to learn," she says. □

Northern Safety Network Yukon is just one of many training partners in the mining industry. Instructor Mieke Leonard (right) leads confined space entrant and standby person training.



2017 marks the 100th anniversary of Yukon workers' compensation legislation. How has our culture of safety evolved into a modern safety mindset?

100 YEARS AFTER: A CULTURE OF SAFETY EVOLVES

By Jessica Simon

One hundred years ago, on April 24, 1917, assent was given to the Yukon's first workers' compensation legislation.

Overall, Canadian workers' compensation provisions developed apace of mining in the Yukon, with the first national *Compensation Act* coming into effect on July 1, 1898. In his history of the Yukon Workers' Compensation Board, author Doug Bell wrote, "By 1913, people in Dawson were well aware of efforts in the south to organize labour unions to fight for safer working conditions and better pay." Four years later, the protection Yukon workers sought became a reality.

In 1939, industrial disease, including illness caused by inhaling particulate, was defined. In 1953, the *Work[men]s' Compensation Act* was passed. In November 1986, the *Occupational Health and Safety Act* was proclaimed.

Today, the work of creating a culture of safety continues, says Andrew Robulack, social marketing and communications manager at the modern Workers' Compensation Health and Safety Board.

"A hundred years ago, methane-gas mitigation consisted of throwing a wet blanket over a miner and sending them underground with a candle to blow out gas pockets," Robulack says, illustrating how far the industry has come with detectors, breathing apparatus, and training. "In general, Yukon employers accept that safety saves more than it costs."

Employers know if one company has a large high-impact accident, the cost to care for affected workers is applied across the sector.

In recent years, Robulack notes there's been an increase in awareness of environmental risks.

"Workplace hazards aren't always visible to the naked eye," Robulack says. "Today's workers understand this and take care to protect themselves even from things they can't see."

Protecting workers from mental-health issues, such as bullying or substance abuse on the job, offers new challenges, and as legalization of marijuana develops, employers will need tools to manage abuse. In March 2017, 190 employers attended a Board-sponsored seminar on workplace marijuana issues.

"Employers have to know how to accommodate users and non-users on the job site," says Robulack. "Those strategies aren't static. It requires going back and checking constantly, to make the best effort possible."

Those efforts are rewarded by the Board's CHOICES program. Employers who take the initiative to train earn rebates on their assessment rates, saving potentially thousands of dollars annually.

"The more you do to prevent injury, the lower assessment rates will be," says Robulack. "At the end of the day, employers not only want to save money, but also want the moral satisfaction of seeing their workers go home healthy and safe." □



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» Susan Craig holds the first bar produced at Brewery Creek mine. In 2017 she earned two top honours in recognition of her efforts in social and environmental responsibility and as a role model for women in mining.

SUSAN CRAIG: DEDICATED TO MINING'S FUTURE

Award-winning geologist Susan Craig has worked on many strong teams. She credits her colleagues for the recognition they share.

When professional geologist Susan Craig was in school, no one told her she should consider a career exploring the earth's physical structure. Craig, who excelled at math and science and enjoyed geography, pursued geology because she was attracted to the time it meant working outside. "I liked the combination of field and office work that geology offers," she says. She earned a bachelor of science degree at University of Calgary, in 1986, and in 1991 earned a master's, followed by a teaching degree, in 2001, at Lakehead University, in Thunder Bay, Ontario. Now, after more than 20 years in the field, Craig earned two top honours for 2017: the Gold Pan Award from the B.C. Association for Mineral Exploration (AME) and the Trailblazer Award from Canadian Women in Mining.

SOCIAL AND ENVIRONMENTAL STEWARDSHIP

AME's Gold Pan Award is earned for "exceptionally meritorious service to the mineral exploration community." Craig's career arc exemplifies that service.

In 1991, Craig was involved with one of the first socioeconomic accords in Canada while working for Viceroy Resources on the Brewery Creek heap-leach mine. The mine was the first recipient of the Yukon Government's Robert E. Leckie Award, in 1999, awarded for excellence in environmental stewardship and outstanding social responsibility.

Then in 2006, Craig coordinated 40 regulators and established seven technical working groups to shepherd NovaGold's Galore Creek project through the environmental assessment. That team earned the AME Robert E. Hedley Award for social and environmental responsibility.

Craig, a committed volunteer, has invested countless hours improving the industry and her community through the AME, Yukon Chamber of Mines, Yukon Mineral Advisory Board, Yukon Women in Mining, and other organizations.

"I learned a lot and got calls for jobs from contacts I'd have never made outside of volunteering," she says.



Photo: Courtesy of Susan Craig

» Susan Craig holds the Trailblazer Award received from Canadian Women in Mining.

“The biggest change I’ve seen is that environmental impact and safety are seen as critical and key areas of mine development.”

Still, news of the Gold Pan Award came as a surprise. “The recognition of my peers is very humbling,” says Craig. “We all give back in so many ways. There are so many who contributed to me receiving the honour. It really belongs to all of us.”

FORGING A FUTURE FOR WOMEN IN MINING

Canadian Women in Mining’s Trailblazer Award recognizes not only Craig’s contribution to Canadian mining, but also her dedication to the inclusion of women in the industry.

When attending the University of Calgary, Craig was one of 13 women in a class of 60 geologists. Women comprised over 20% of the faculty, compared to 10–15% a few years prior.

Early on, Craig made close friendships with women in her peer group. “We built a little community of support and advice for ourselves.” It continues to this day.

While Craig wasn’t an anomaly in the classroom, she admits that in the field, “for some of the guys, it was a bit of a foreign concept.” But when crews from other camps quizzed her team about working for a woman, they defended her.

The boardroom was a different matter. “There weren’t many women running junior companies back then,” she says. “Sometimes just ‘The Gentlemen’ would talk. Or once I was told, ‘We’re just waiting for the guy to show up and start the presentation.’ I told them they’d be waiting a while because I am the guy.”

But like her male colleagues in the field, she says, “they recognize the value of the work we do and the concepts we’re developing.”

Today, women are running projects and filling more senior roles. “We’re getting the opportunities to advance in our careers,” says Craig.

Women-in-science campaigns have helped, says Craig. “When we go into the schools, young women who in the past might have held back are talking to us established women about mining and thinking, ‘Yeah, I could do that.’”

Recently, while scouting for geologists, Craig was pleased to find near gender parity in the geology department of three Canadian universities, including her alma mater. “It’s great to have such a big talent pool in the engineering, science, and education fields,” she says.

EXPORTING OUR SAFETY STANDARDS

Over the course of her career, Craig has seen the influence of mine safety rise.

“The biggest change I’ve seen is that environmental impact and safety are seen as critical and key areas of mine development,” she says. Planning to mitigate impacts at the outset of any project is a crucial part of the process.

That attitude gives Canada a valuable international reputation.

“If Canada shows up at a project, there’s an expectation of higher personal- and environmental-safety standards,” says Craig. “For the workers in those countries, the benefits are huge. We’re able to export our best practices and everyday skills to set new standards as our companies develop projects all over the world. We’re ambassadors for Canadian standards wherever we are.”

Wherever Craig is, her dedication to safety, stewardship, and her peers has changed the face of Canadian mining. □



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MINING WEEK LAUNCHES EXPERIENTIAL EXTRAVAGANZA

ENGAGED IN MINING: EXPERIENTIAL EXTRAVAGANZA TAKES MINING WEEK EVENTS ON TOUR. DISPLAYS AND ACTIVITIES HIGHLIGHT OPPORTUNITIES IN HOME COMMUNITIES.

By Jessica Simon

For the first time in its five years, Mining Week takes to the field for an Experiential Extravaganza during National Mining Month, this May.

The Extravaganza pilot project, started by Yukon Women in Mining (YWIM), starts on May 1 with Mining Week, in Whitehorse.

Activities organized by MacBride Museum, the Miles Canyon Historic Railway Society, Northern Safety Network, and Workers' Compensation Health and Safety Board use real artifacts, such as claim maps, topographical maps, and surveyor field notes, in activities focusing on improvements in health and safety over the past century.

On May 5, the Yukon Chamber of Mines (YCM) Exploration and Discovery Camp takes place with activities like rope and harness demos of modern safety techniques.

Andrew Robulack, social marketing and communications manager at the Board, has seen Mining Week activities encourage safe lifestyle practices.

"Attitudes about wearing personal protective equipment, like helmets, are improving. People want to protect themselves at a younger age," says Robulack.

After Mining Week, YWIM's Extravaganza takes the events to three communities for real-life conversations about what mining offers for career choices, economic prosperity, and community wellness.

"Our goal is to support our members and partners in their outreach to Yukon youth in the communities," says Extravaganza director Anne Lewis, president and founder of YWIM.

Geology, placer mining, engineering, construction, and environmental- and industrial-safety skills are adapted for active projects in each community. Hands-on experiences include moving heavy objects, learning to fly, copper- and amethyst-jewellery making, and geode smashing.

At the close of each day, YWIM distributes Prospectors and Developers Association of Canada *Mining Matters* teacher's kits and hosts a one-hour training session to show how the material complements Yukon curriculum.

"We aim to have at least one teacher's kit in every school by the end of 2018," says Lewis.

"It's a great initiative," says YWIM member and YCM vice-president Susan Craig. "Different women at different

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"Mining careers are extremely diverse and they are available in our own backyards."

levels and positions in mining are on the tour, showing young women and men the career possibilities right here in their home community."

On May 15, Pelly Crossing invites Carmacks and Mayo for soapstone carving and a BBQ. On May 17, Faro hosts Ross River at the Department of Education's Rural Experiential Model Program. On May 19 and 20, the tour arrives at the Dawson City International Gold Show, where the "Every Student Every Day" group plan a special event.

The Extravaganza continues in the classroom in September as educators use examples of mining skills, such as specimen collection, drill-rate calculation, and orienteering, to enhance science, math, and sports classes.

The project also includes a photography and videography component and four special guest breakfast sessions throughout 2017, with the first at the High Country Inn on May 4 and the final one at the Geoscience Forum, in November.

"Mining careers are extremely diverse and they are available in our own backyards," says Lewis. "We want to provide awareness and inspiration

for youth who are looking for careers that provide rewards and challenge them, while allowing them to remain a part of their community." □



MacBride Museum Collection 1977.5.1

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« Les roches, c'est la base de la vérité. »
-Maurice Colpron-

» Maurice Colpron est dans son élément quand il est sur le terrain. Il a parcouru une grande partie du territoire du Yukon pour ses travaux et ses recherches.

MAURICE COLPRON RÉCOMPENSÉ POUR L'ENSEMBLE DE SON TRAVAIL EN GÉOLOGIE

Françoise La Roche

En septembre 2016, lors de la Conférence des ministres des Mines et de l'Énergie à Winnipeg, au Manitoba, la médaille des géologues provinciaux et territoriaux a été décernée pour une première fois à un géologue du Yukon. C'est Maurice Colpron, responsable de l'unité de recherches sur la géologie du socle rocheux de la Commission géologique du Yukon (CGY) qui a reçu cet honneur.

Cette distinction vise à récompenser les contributions majeures dans le domaine de la recherche géoscientifique et des activités connexes qui permettent aux commissions géologiques du Canada de réaliser leur mandat.

RÉALISATIONS

Les recherches de M. Colpron ont permis, entre autres, d'améliorer la connaissance de la géologie du Yukon et de l'Alaska et de la cordillère canadienne.

« J'ai contribué à plusieurs choses en géologie structurale », explique-t-il.

« Plusieurs de mes travaux ont engendré une thèse d'étudiant diplômé. Certaines de mes découvertes ont été confirmées. »

Parmi ses importantes réalisations, il a émis l'hypothèse qu'une partie de la cordillère canadienne ne venait pas de l'ouest de l'Amérique du Nord, mais plutôt de la Norvège et du Groenland.

« Il y a eu beaucoup d'études financées sur ce sujet et il y en a encore aujourd'hui. Les données qui en ressortent ont tendance à confirmer ce que j'avais suggéré », raconte le géologue.

« Plus récemment, nous avons reconnu certaines relations entre des failles actives il y a environ 100 millions d'années et l'emplacement de gisements d'or au Yukon et en Colombie-Britannique. Cela a engendré des études d'exploration. »

NOUVELLES TECHNOLOGIES

Aujourd'hui, dans bien des domaines d'activités on a recours à la réalité augmentée et aux drones. Nous avons demandé à M. Colpron si ces nouveaux outils pouvaient être intégrés à la cartographie.

« Nous n'utilisons pas ce genre de technologie au Yukon. Nous avons déjà considéré l'usage de drones, mais le seul avantage serait d'avoir une image plus détaillée de la région que nous voulons étudier. »

Il est d'avis que l'image serait de meilleure qualité que celle obtenue avec un satellite ou avec des photos aériennes, mais « en fin de compte, pour les travaux que nous effectuons, nous devrions toujours aller sur le terrain nous mettre le nez sur la roche. »

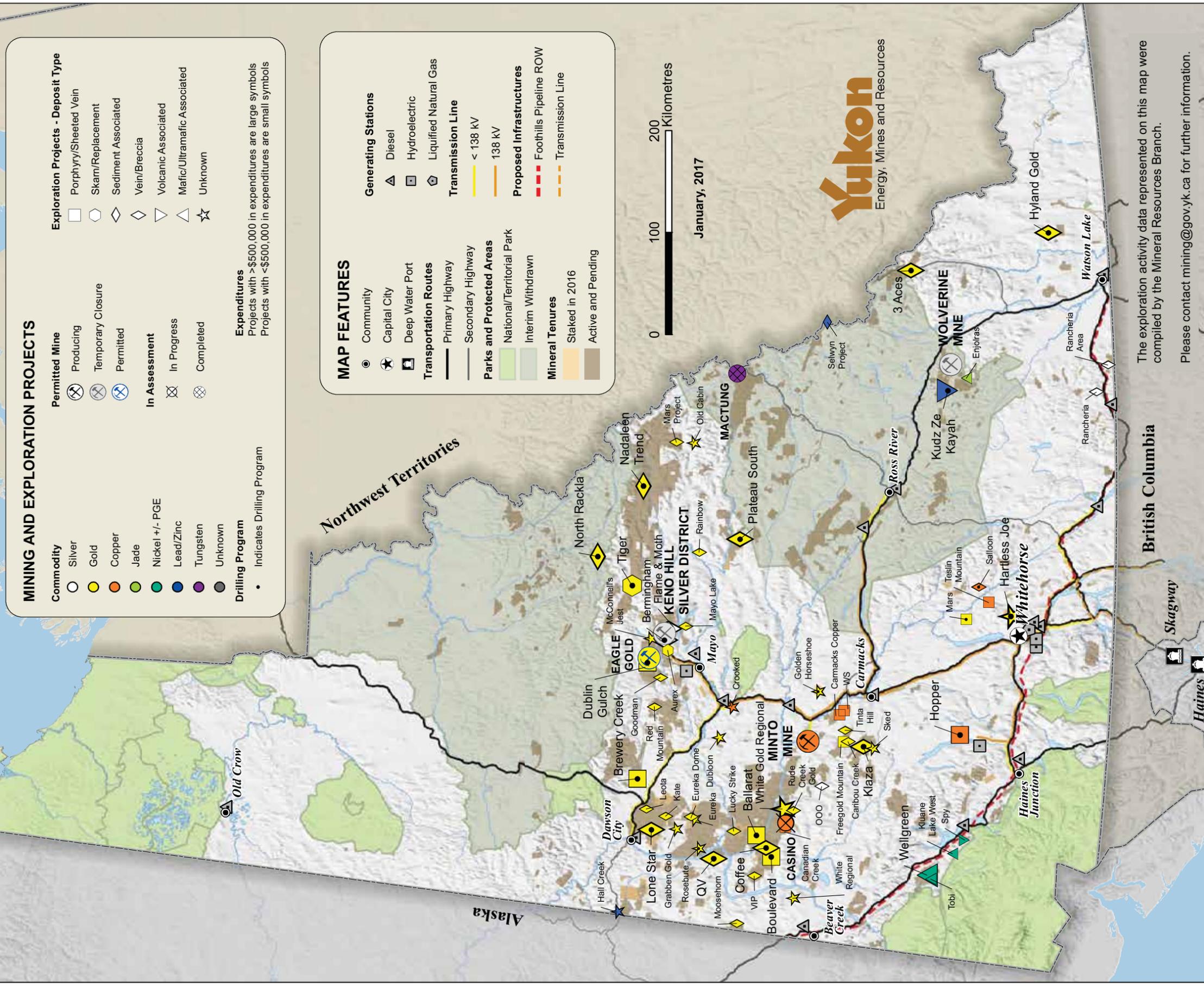
FORMATION DE LA RELÈVE

Aujourd'hui, la plupart des géologues qui travaillent au CGY sont dans la trentaine. Maurice Colpron travaille étroitement avec eux et est heureux de partager ses trucs avec ces jeunes géologues. « J'apprends aussi beaucoup d'eux. J'ai eu plusieurs étudiants diplômés sous ma supervision. C'est une excellente façon de les entraîner à faire les travaux que j'ai faits. »

Maurice Colpron a étudié en géologie et a été enthousiasmé dès sa première année de baccalauréat à l'Université du Québec à Montréal. Par la suite, il a obtenu une maîtrise à Burlington au Vermont, et un doctorat de l'Université Queens à Kingston. Il a ensuite travaillé en Colombie-Britannique avant de venir s'installer au Yukon.

Pour ce géologue structural, spécialiste du passé, tout découle de l'étude des roches : « Les roches, c'est la base de la vérité. » □

Yukon Mining and Exploration Projects 2016



The exploration activity data represented on this map were compiled by the Mineral Resources Branch.
Please contact mining@gov.yk.ca for further information.



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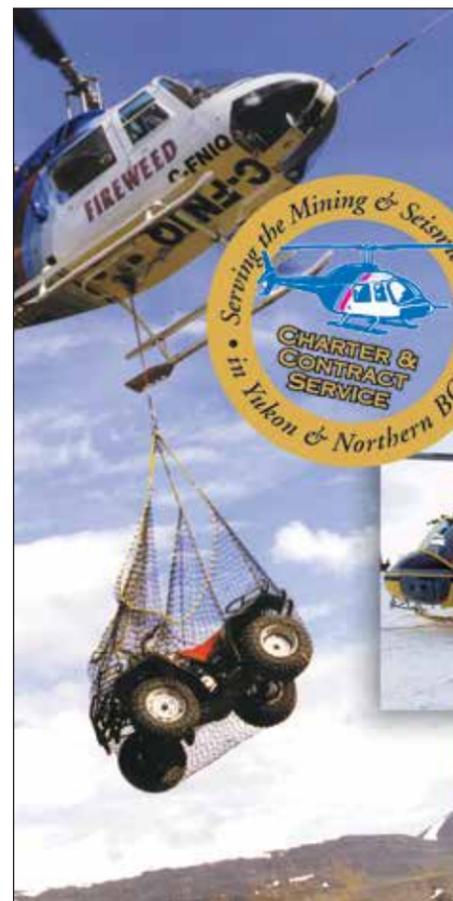
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BUILT FROM OPEN SOURCE PROGRAMMING, PLYWOOD, SAND, AND A VIDEO CAMERA, YUKON GEOLOGICAL SURVEY'S AUGMENTED REALITY SANDBOX HELPS VISUALIZE THE CONNECTION BETWEEN HUMAN ACTIVITY AND THE ENVIRONMENT.

It's difficult to visualize how millions of years of plate-tectonic movement, hydrology, and soil deposition have created the world we live in, but there's a new tool to help researchers, educators, and learners bring those concepts to life.

The Yukon Geological Survey's (YGS) Augmented Reality (AR) Sandbox, built by Brett Elliot, uses computer technology to project a 3-D image onto a bed of white sand that can be formed into contours of the landscape. By holding a hand over the model, users create a "cloud" that "rains" over the sand, showing drainage patterns.

"The modelling parameters can be controlled to account for seepage and the evaporation rate of the virtual water down

to sea level," says Elliot, the geological and spatial database administrator at YGS.

Rain, snow, lava, or toxic waste can be projected onto the sandbox. "It's engaging to

"It augments learning and discovery by showing the interconnectivity of activity upon the landscape."

see how the simulated materials behave on the landscape," Elliot adds.

Predicted effects of changing climate, such as warmer winters and wetter summers,

on roads, berms, and ponds become visible in an instant. Add small figurines and toy houses in the sandbox to represent people and buildings and AR can also show how hydrology affects and is influenced by development such as pit expansion, removal of surface material, or human settlement.

There are 500 AR sandboxes in North America. Oliver Kreylos developed the first at University of California, Davis, from a prototype designed in the Czech Republic. Kreylos offered the software as an open-source program, making it free for all to access at idav.ucdavis.edu/~okreylos/ResDev/SARndbox. The rest can be made from white sand, plywood, and a video-game camera.

YGS uses their unit in an educational capacity. "It's a way to get people interested in science, environmental issues, and mining," says Elliot. "It augments learning and discovery by showing the interconnectivity of activity upon the landscape."

Learning and engagement outcomes outlined in the "Shaping Watersheds" facilitators' guide developed by lead researcher Dr. Sarah Reed include concepts in geography, geomorphology, and hydrology. The guide prompts thinking about watersheds, locally and globally, and allows educators to transfer these concepts to other objects in our solar system.

Student interest in geography grows when they see how contour lines on a two-dimensional map look on a 3-D planet. A new version of the AR software allows for direct input of topographic maps and recreation of real landscapes on the sand's surface.

Geomorphology shows students how mountains are formed, how they erode, and how shifts affect mineral deposits. The AR sandbox responds to changes in the landscape that students create.

"Adults are a little more reserved, but once they try it, their interest perks up to the analytical possibilities."

Hydrology is explained by moving water over the sandbox "land" to shape the planet. By adding sand to an area defined as a water body, students can observe how changes to the bottom of a pond change flow patterns. The AR sandbox can also illustrate how low snowfall causes drought as freshwater fed by snowmelt is not replenished.

Two months after YGS built their unit, they set it up at the Geoscience Forum. School children participating in the Chamber of Mines' Yukon Rocks program eagerly responded to the hands-on element.

"Adults are a little more reserved," says Elliot, "but once they try it, their interest perks up to the analytical possibilities."

"In the mining community, geologists and geographers are very interested in the AR sandbox," Elliot continues. "It won't replace computer-based mapping or on-site surveying, but as a rudimentary tool it offers a good visualization."

When combined with the 3-D model built by Western Copper of their Casino Mine project, people could visualize how the company was able to reduce water use and improve environmental safety by

widening the beach at the leading edge of their tailings pond. In addition, AR may give engineers and planners a method to prove containment of potential acid-bearing material in the event of natural disaster.

With the crystal-ball potential of augmented reality, industry has a new method to see previously unforeseen relationships between water, the land, and humanity. □



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MINING & GEOLOGY WEEK

THE YUKON CHAMBER OF MINES' Mining Week is an annual celebration in Yukon, which occurs during the first week of May. Over this time the Yukon Chamber of Mines puts on and participates in a series of events during the week. It all kicks off with the City Of Whitehorse proclamation of Yukon Mining & Geology Week during the City Council meeting. On the following day, tributes to pioneers of the mining industry and those who currently work in it will flow from the Yukon Legislature. On the evening of the fourth day will be a free interpretive tour of the Whitehorse Copperbelt region. Concluding the week with the Mining Exploration and Discovery Camp at the SS Klondike in Whitehorse, there is something for the whole family. □





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YUKON NIGHT SPARKS DEVELOPMENT

New agreements, new governments, and new ground to explore: prospects shine bright at Yukon Night.

By Jessica Simon

Interest in the Yukon hasn't been this high since the Klondike Gold Rush, and the annual Yukon Night at the Roundup Conference in Vancouver was abuzz with clients and service providers reinforcing their partnerships for the coming season.

This year's Yukon Night was a "good show of force between governance and industry," says John Small, owner of Small's Expediting Services, who firmed up contracts at the January event.

It was the first Roundup for the newly elected Energy, Mines, and Resources Minister Ranj Pillai. While there, he signed a memorandum of understanding with the Yukon's self-governing First Nations.

"We agreed to work together in a respectful and collaborative manner on processes related to mining in Yukon," says Pillai.

In March, his ministry advanced that concept with an agreement with the Tr'ondëk Hwëch'in relating to mining exploration activities proposed to occur on non-settlement land within Tr'ondëk Hwëch'in Traditional Territory.

Council for Yukon First Nations Grand Chief Peter Johnston's speech at Roundup underscored the co-operative relationship developing in the territory.

HEADLINES IN THE YUKON'S MEDIA TELL THE STORY:

"Barrick Gold invests \$8.3M in Yukon gold project, with potential for more"

"Goldcorp closes deal to buy Kaminak Gold Corporation"

"Mining giant Agnico Eagle buys into Yukon's White Gold district"

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"Exploration companies get a feel of that level of support," says Small. "Take a look at Newmont and Goldcorp."

Newmont, active in the White Gold district, is one of the world's largest gold producers, with assets or operations on five continents, and a leader in safety and sustainability. Alongside them is Agnico Eagle, who bought their stake from claims originally owned by Shawn Ryan. Goldcorp is set to explore the promising Coffee project near

Dawson, and Barrick is investing in the Rakla project east of Keno. Kendra Johnston, past chair of the Roundup Organizing Committee and active Yukon explorer, says "Yukon Night has been an integral part of the Roundup Conference for as long as I can remember.

"[Along with] bringing all of the explorers, service and supply, First Nations, and political representatives together to plan for the coming field season, it also provides an opportunity for people to get to know each other as friends rather than business colleagues," says Johnston. "The one feeling that strikes you at Yukon Night is the sense of community of the people working in the Yukon. Everyone knows each other, we welcome newcomers, and we all help each other out knowing that one success in the territory is a success for everyone working here."

The Roundup also aids the Yukon Chamber of Mines achieve its goal of creating chances for informal discussion about mining in the territory.

"It's an opportunity for the Chamber to listen to its members and truly find out what is important to them at the moment," says Johnston. "It's a fabulous event for potential new members to get a feel of what working in the Yukon is like." □

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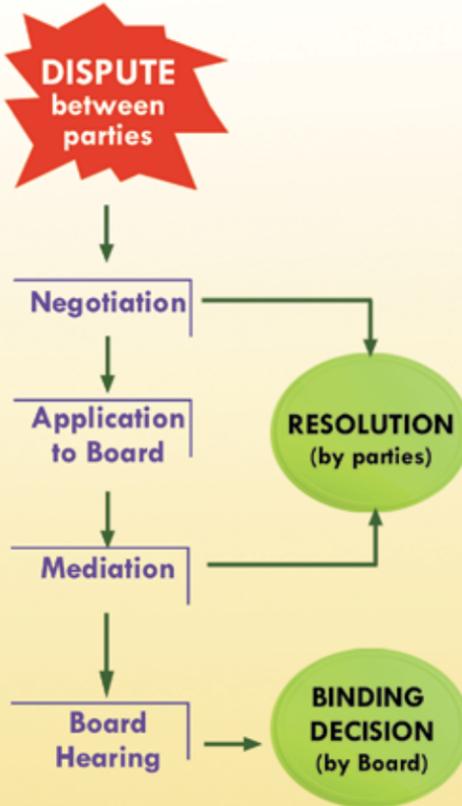


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The Board's primary responsibility is to hear and decide disputes related to accessing or using Yukon First Nation settlement land and, in certain circumstances, disputes involving access to or use of non-settlement land. The Board's process starts when the parties are unable to reach an agreement and a party applies to the Board. The Board's jurisdiction is derived from several statutes. The primary authority for the Board is set out in the *Yukon Surface Rights Board Act* (Canada).

Additional responsibilities of the Board are set out in other laws and agreements including the *Quartz Mining Act* (Yukon), *Placer Mining Act* (Yukon), *Oil and Gas Act* (Yukon), *Expropriation Act* (Canada), *Radiocommunications Act* (Canada), and individual Yukon First Nation Final Agreements.

To learn more about the Board and its process visit yukonsurfacerights.ca or contact the Board's office.



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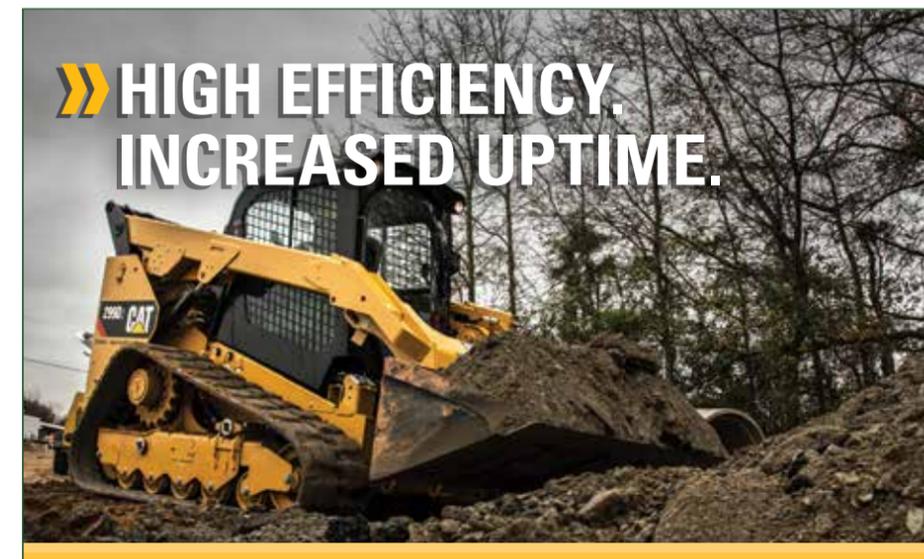
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