

Report on: 360 Degrees of Mining Workshop at Minerals North 2014 Vanderhoof May 21, 2014

**Sponsored by the
Mining Association of British Columbia**



by
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C3 Alliance Corp.



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Executive Summary

The Minerals North 2014 organizing committee approached C3 Alliance Corp. in 2013 to deliver a modified version of their “Let’s Talk Mining” workshop at the conference in Vanderhoof. The modified workshop was titled “360 Degrees of Mining”. Information on community sustainability and mine development impacts and benefits was added to the existing elements of the C3 workshop.

The changes did lead to reducing the time available to discuss the complete life cycle of the mineral industry, starting with exploration then continuing to mine development and operation and finishing with mine reclamation and closure. This information was presented to explain the nature of mineral industry activities to an audience with little knowledge of exploration and mining.

Key outcomes for the participants included understanding the nature of different phases of an exploration program; learning about the many economic opportunities related to the mineral industry; appreciating modern mine closure and reclamation along with the related challenges; and learning about the relationships of communities to mines in north central British Columbia.

The workshop provided an environment of respect which allowed for significant dialogue and input by the participants.

Questions were welcome and showed the high level of engagement of the participants.

The participants were clearly pleased with the quality of the 360 Degrees of Mining workshop. The people who completed a feedback form rated the overall quality of the LTM sessions as very satisfactory or extremely satisfactory. All said that yes, they would recommend to a friend to attend the 360 Degrees of Mining workshop.

360 Degrees of Mining

- 10:00 am to 4:00 pm
- Vanderhoof, BC
- 25 participants
- By all participants who completed an evaluation:
 - were very satisfied or extremely satisfied with workshop
 - would recommend to a friend to take the workshop

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Introduction

The 360 Degrees of Mining workshop was included in the program for Minerals North 2014 to provide registrants with a chance to learn about the life cycle of mining from prospecting to closure and reclamation along with community impacts and benefits and sustainability.

The Minerals North 2014 organizing committee handled registration for the workshop; arranged for the room and audiovisual aids; and provided for the coffee breaks and lunch. Brian Frenkel, Chair of the Minerals North organizing committee opened the workshop and Val Erikson assisted with room set up, registration and delivery of the workshop. She also won the exploration game!

The Mining Association of British Columbia (MABC) sponsored the workshop. Karina Brino, Chief Executive Officer and President of MABC, introduced the speakers.

C3 Alliance Corp. (C3) was hired to deliver the workshop based on their popular “Let’s Talk Mining” presentations augmented by information specific to how communities relate to mining. To this end, the workshop added two presentations specific to changing communities related to both mine development and mine closure. The inclusion of these two presentations along with starting the workshop at 10:00 am did require tightening up the presentations describing the life cycle of mining. The workshop was completed on time.

Nature of Workshop

Workshops delivered by C3 (Appendix 1) are designed to meet the needs of Aboriginal communities and leaders. C3 is effective in creating an environment of respect which allows for significant dialogue and input by the participants.

The instructors were Jerry Asp and Dave Lefebure who have had lengthy careers related to the mineral industry. Jerry Asp also has extensive experience negotiating and signing agreements with the mineral industry on behalf of Aboriginal communities in Canada and internationally.



The schedule for the workshop is included as Appendix 2. The session was spent with a mixture of slide presentations including numerous pictures of industry activity and people doing different jobs and answering questions. Jerry Asp included examples of how the Tahltan and other First Nations are ensuring that mineral industry company activities on Traditional Territories respect cultural and environmental values and benefit Aboriginal Peoples. Both instructors responded frankly to all questions in everyday language.

Some examples of the types of questions asked by participants are listed below:

- How has the industry changed since the Bre-X gold fraud?
- Do prospectors and early exploration programs contact First Nations before starting field work?
- Where can a person find statistics on exploration programs?
- Discussion of all the coal tenures in northeast British Columbia.
- Clarification on the difference between mineral tenures and mine leases.
- What is the relative recovery of ore bodies by open pit and underground mines?

- Communities are being impacted by mines which is not being discussed by society.
- Discussion of the best shift rotation for fly in, fly out mines.
- What is the status of the Kemess South mine site?
- Mt Milligan support for new Caledonia College.
- Mines not talking to communities.
- Status of North Kemess mine?
- Be concerned about temporary closures of mines that last for extended periods.
- Need to do progressive recommendation

Often the questions led into discussions as the instructors interacted with the audience. In some cases workshop participants had information to share.

Participants

Twenty-five participants signed in for the workshop. Several additional people joined the workshop near the end, but did not sign in. The audience was composed of a variety of people with varying backgrounds including local governments, government civil servants, service companies and several Aboriginal participants.

Seventeen of the people who participated in the workshop were not listed on the May 17th, 2104 Minerals North registration list. The registration list was thirty-nine people as Friday May 17th, but only eight of the registrants turned up.

The large number of registrants and high drop in rate show there is a strong desire by the targeted audience to learn about the mineral industry when offered a workshop that provides the information in engaging ways and non-technical terms.

Workshop Evaluations

Ten participants completed feedback questionnaires designed to see if the course was on target and useful for them. As shown in Figure 3, the feedback was overwhelmingly positive. In response to being asked if they would recommend the workshop to a friend (Question #4), all ten said yes.

A number of participants volunteered comments in the written portion of the feedback forms, such as:

- “Was great info”.
- “a very good way to begin the conference”
- “very well presented”
- “thanks for the opportunity to ask lots o questions”
- “a lot of info for fairly short time”
- “excellent presentation, facilitators extremely knowledgeable”

Two participants felt a longer workshop would be warranted (two day or more than one day).

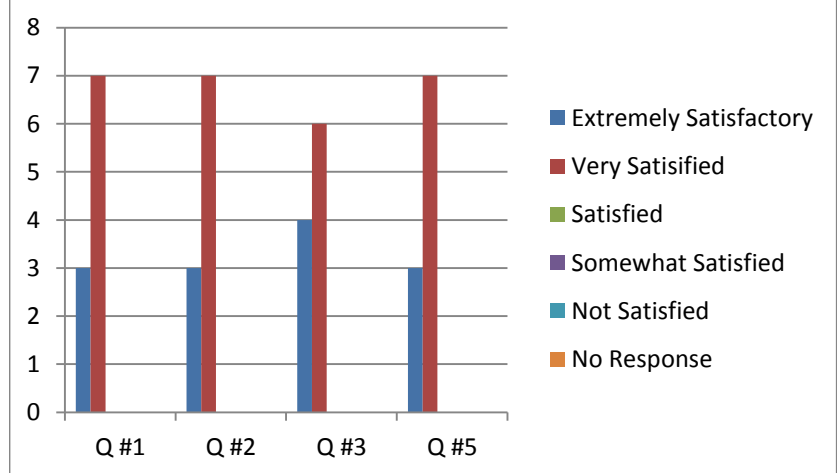


Figure 3. Results of Feedback for Four Questions.

Outcomes

The participants gained considerable knowledge about the mineral resource sector in the workshops, including:

- learning the major differences between exploration and mining;
- identifying the different phases of an exploration program;
- how a mine development project moves from one phase to the next;
- appreciating modern mine closure and reclamation along with the challenges;
- learning how Aboriginal communities can choose to benefit economically from the mineral industry;
- understanding how communities in north central British Columbia have grown up with mines in their region;
- discussing how communities have been impacted by mine closures; and
- providing an understanding on how the relationship between communities and mines is evolving.

Conclusion

The workshop was a big success and C3 appreciated the opportunity to expand our presentations to include considerable information on community relationships with mines. This is clearly an area with changing parameters that industry, government, communities and First Nations should continue to discuss.

The expanded agenda for 360 Degrees of Mining created a time challenge to properly cover the workshop agenda. A future session run in conjunction with a conference would benefit from a start at 8:30 or 9:00 am and completion at 4:00 pm. Another choice is to hold a 10 am to 4 pm session on “Mining and Communities: Living and Working Together”. The evolving nature of mining operations in British Columbia warrants more discussion between communities and companies at venues like Minerals North.

Appendix 1: "Let's Talk Mining" Brochure



"LET'S TALK MINING"

First Nations and Community Workshops and Presentations	
<p>Does your company or agency want to:</p> <ul style="list-style-type: none">• Increase people's understanding of the mineral industry;• seek advice about First Nations and community engagement;• profile the mining cycle from prospecting to mine reclamation and closure and the related economic opportunities for local people and companies;• demonstrate government's strong mining regulations;• show mining's benefits and challenges;• use experienced, independent presenters who know the challenges faced by small, isolated communities; and• help people understand mining and replace fear of the unknown with knowledge of the true nature of mining.	<p>C3 Alliance Corp has the expertise to facilitate and deliver First Nations and community mineral exploration and mining outreach.</p> <p>The diagram illustrates the Mining Life Cycle as a continuous loop. It features a large, white, curved arrow pointing downwards, with the text 'Mining Life Cycle' written vertically inside it. Along the right side of the arrow, there are four circular images, each representing a stage of the cycle: 'Exploration' (showing a blue tent in a field), 'Development' (showing a large industrial facility), 'Mining' (showing a yellow excavator), and 'Reclamation' (showing a green, hilly landscape). The background of the entire section is a photograph of a green, hilly landscape under a cloudy sky.</p>



“Let’s Talk Mining” Workshop

The “Let’s Talk Mining” Workshop improves the understanding of First Nations and communities of the complete life cycle of the mining industry. It has a strong emphasis on exploration which is by far the most common mineral industry activity on the land. As well, it effectively addresses the most commonly voiced concerns regarding mine closure and reclamation.

This interactive workshop is delivered in a relaxed, innovative manner utilizing numerous photographs, games, role playing, rock samples and humour to enhance the learning experience. The material is presented by Jerry Asp and Dave Lefebure, both of whom have years of experience in delivering mining education workshops and presentations. Each “Let’s Talk Mining” Workshop is tailored to meet the needs and interests of the participants in a cost effective way.

Workshop Leaders



Jerry Asp
President,
C3 Alliance Corp.

Jerry is one of western Canada’s most prominent Aboriginal leaders, and is a certified trainer. He is a staunch believer in the need for economic independence for all Aboriginal Peoples and the role mineral exploration and mining can play in this goal. He has devoted his professional career to enhancing the quality of life for Aboriginal people through the creation of new business opportunities and development of skills and capacity in the community.



Dave Lefebure Ph.D., P. Geo.
Vice President,
C3 Alliance Corp.

Dave was Chief Geologist for the British Columbia Geological Survey from 2002 to 2011. Dave has more than 30 years of experience with the mineral industry. He has organized, delivered and participated in numerous workshops for First Nations and communities in British Columbia. He is an engaging teacher who uses innovative approaches to connect with all types of audiences.

Fee Schedule:

“Let’s Talk Mining” Workshop:

Rates can be a per person fee (minimum number of participants), daily rate plus expenses or all-in fee.

Presentations: Fee plus travel costs and expenses.

Contract Work: Daily rates plus travel costs and expenses.



More Information:

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Appendix 2: Agenda

Minerals North 2014

“360 Degrees of Mining” One Day Workshop

Wednesday May 21, 2014

Vanderhoof, B.C.

Agenda

10:00 am Welcome

Introductions

Mineral Industry Overview and Aboriginal Rights and Title

Preliminary to Advanced Mineral Exploration

Economic and Employment Opportunities Related to Exploration

Mine Development and Different Types of Mines

12:15 pm Lunch Break

1:00 pm Economic and Employment Opportunities Related to Mine Development

Communities and Mine Development and Mining

Economic and Employment Opportunities Related to Mining

Mine Reclamation and Closure

2:50 pm Coffee Break

3:10 pm Economic and Employment Opportunities Related to Reclamation and Closure

Communities and Mine Closure – Dave (New)

Closing Comments

4:00 pm End

The 360 Degrees of Mining workshop is delivered by Jerry Asp and Dave Lefebure of C3 Alliance Corp. Jerry is one of western Canada’s most prominent Aboriginal leaders and is a certified trainer. He is a staunch believer in the need for economic independence for all Aboriginal Peoples and



Jerry Asp

the role that exploration and mining can play in this goal. Dave, former Chief Geologist of the British Columbia Geological Survey, knows government procedures related to the mineral industry. He has explored for copper, zinc, gold, silver, nickel and other minerals in British Columbia, Ontario and Quebec.



Dave Lefebure