



# Frederik Paulsen Seminar: Mine Bioremediation in the Arctic

## Scientific Ideas Shared

Scientists and specialists from around the circumpolar Arctic gathered around the Ayamdigut (Whitehorse) Yukon University Campus for the Frederik Paulsen Seminar: Mine Bioremediation in the Arctic hosted at Yukon University in Yukon Territory, Canada. Over the three days, participants discussed the merits and prospects of mine bioremediation in the northern climates. New scientific research and techniques were shared between colleagues. The topics covered were Challenges and Opportunities in Mine Remediation, Case Studies, Community Engagement, Sustainability and Cost-effectiveness, and Innovation and Collaboration. In addition, thought experiments were conducted in small groups that emphasized understanding the differences and similarities between Arctic regions and conceptualizing what a mine would look like 100 years in the future. Guillaume Nielsen from Yukon University's Industrial Research Chair in Northern Mine Remediation facilitated the seminar's activities.



## Tours and Exploration

Arctic Chief Mine was toured with the group and became a participant favourite. They were led by Dr. Joel Cubley, a Yukon University Geologist, who showed them two mining pits, waste rock piles, and the tailings compound. Engaging historical and geological information was shared, along with potential re-mining prospects of the tailings, making the tour comprehensive and enlightening. Participants were also given a sweeping tour of Yukon University, Canada's first university north of 60!



## Connections Made

Connections between researchers around the circumpolar North were created as similar interests were discussed and disclosed. Conversations about collaboration between universities and organizations could be heard during breaks at all stoppages. The connections fostered at this Frederik Paulsen Seminar have encouraged a promising future for mine bioremediation in the Arctic.

