



RioTinto



SUMMER 2018  
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# Mine to Port

The IOC employee magazine



# Welcome to the new Mine to Port

For all of us, the recent work stoppage has been a stressful period, but with our new agreement in place and operations resuming, it is time to come together in building a stronger IOC. I am particularly pleased to be relaunching Mine to Port, IOC's employee magazine. I look forward to reading about your initiatives, achievements and projects – inside and outside the gate – that support our 5 priorities, help strengthen IOC and give back to our communities.

With all of us now back to normal operations, it remains my number one priority that every employee goes home safely, every day. IOC's vision is to be a premier mining company in North America. We cannot achieve this goal without ensuring that we take the time to listen to each other more and find solutions together so that we can continue to build a safer, stronger business for the future.

In this special 4-pager edition you will discover two examples of employees finding solutions to business challenges through the use of innovative thinking and



Clayton Walker  
President, IOC

a commitment to our values of safety, respect, integrity, teamwork and excellence; IOC's winning team in Rio Tinto's first Pioneering Pitch and the innovative QNS&L partnership with the CEGEP de Sept-Iles, which won a Rio Tinto Ground breakers award

in Q1 2018. I am certain that there are many more examples of best practice that we can share with each other. Mine to Port is your opportunity to share these stories of excellence. I look forward to hearing from you!

Please also keep a watch out in the coming weeks for information on our Family Day events and our annual Recognition Dinner for long service employees (25 and 40 year) and retirees.

*Be Safe,  
Clayton Walker*

## Our five priorities

Our vision of becoming a premier mining organization in North America is an ambitious and exciting goal that we can achieve through a continued focus on our five priorities. Mine to Port will feature your stories, challenges and achievements as they relate to these priorities.

Safety



ZERO HARM

People



ENGAGED & ENERGIZED

Cash



SUSTAINABLE GENERATION

Partnership



PRIVILEGE TO OPERATE

Growth



FULL POTENTIAL

# Dennis, Eric and Colin's winning innovation!



When Rio Tinto Global announced Pioneering Pitch, our colleagues Dennis Drover, Eric Tremblay and Colin Oldford saw an opportunity to bring their idea to life. Knowing that changing drill bits was a task with high potential for injuries, Dennis asked the safety team to validate this, and learned that in the past five years 14 recorded injuries were attributed to changing drill bits and 31% of all injuries impact the hands.

Seizing this opportunity, the three colleagues set out to design the Remote Drill Bit Changer (RDBC), which would allow users to change drill bits via a hydraulic boom from within the cabin. With their design developed and their pitch ready to go, the team impressed the judges in Rio Tinto's own Dragon's Den style competition. They were one of just four winning teams, out of 91 applicants globally, receiving \$210,000 US to manufacture and implement their RDBC at IOC and explore possible applications for Rio Tinto globally. The RDBC positively impacts on safety, productivity and cash, which no doubt factored into

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**JUST BECAUSE SOMETHING HAS BEEN DONE ONE WAY FOR 25 YEARS DOESN'T MEAN THERE ISN'T A BETTER, AND SAFER, WAY TO DO IT!**

the judges enthusiasm for this innovative project. The RDBC removes operators from 5 critical risks present in changing drill bit the traditional way, greatly reducing the **safety** risk of this regular maintenance task. And with less injuries, there is improved productivity and positive impacts on revenue and **cash**.

The team is now in the final design verification stage and is excited to start testing the RDBC on-site in the final quarter of this year. As Dennis will tell you “Just because something has been done one way for 25 years doesn't mean there isn't a better, and safer, way to do it!”.

- 1332 bit changes were performed in 2016
- 70 + workers involved in changing drill bits annually
- 3 minutes less per change, reducing maintenance downtime
- \$ 2.6M per year in savings



# Training The Train Drivers

In 2017, QNS&L realised they would need to expand their team of train conductors. With growing demand in the region for product haulage, they would need up to 15 additional drivers in the near future. However, in Quebec there were no educational programs providing this specialized training. While QNS&L had in the past few years developed an internal training program, they decided to join forces with the CEGEP de Sept-Îles to offer the first and only public Engineman training in Quebec; training and developing a skilled, local workforce.

QNS&L relocated two train simulators onto the CEGEP campus to improve the efficiency of the training. With the simulators now at the CEGEP they can also be used in research and development, providing additional benefits to the sector and the workforce. By bringing together the industrial knowledge of QNS&L and the

educational expertise of the CEGEP this joint initiative is contributing to the creation of an agile, qualified and local work force, that is responsive to regional demand and opportunities. This innovative partnership, which was recognized with a Rio Tinto Ground breakers award in Q1 2018, between QNS&L and the CEGEP de Sept-Iles is delivering better outcomes not only for IOC, but for the community as well.



## The Mine to Port Team

CURRENT AND PAST EDITIONS ARE ALSO AVAILABLE ONLINE AT [WWW.IRONORE.CA](http://WWW.IRONORE.CA)



**Mine to Port is a collaboration across many areas of IOC and we thank everyone for their support and involvement.** If you have a question about Mine to Port or would like to share a story for an upcoming edition you can contact:

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