

Lifton, Clausi, Cashin and Putnam on how the time for scandium is now

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The [Technology Metals Show](#) hosts Jack Lifton and Peter Clausi talk to Peter Cashin, President and CEO of [Imperial Mining Group Ltd.](#) (TSXV: IPG) and George Putnam, President, CEO and Director of [Scandium International Mining Corp.](#) (TSX: SCY), about scandium, which is a critical material and the scandium market overall.

The full interview available exclusively to [subscribers](#) of the [Technology Metals Show](#), this a promo clip from the panel's discussion on the overall scandium market, commercial uses of scandium and the latest research and development that has been done in this area. George said, "Scandium has some unique aspects to it that make it well suited as an aluminum alloy along with some exciting uses in a number of areas specifically in battery technology."

In the interview, Peter Cashin provided an update on the Imperial Mining's Crater Lake Scandium-Rare Earth property located in the Canada's aluminum capital – Quebec.

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Putnam on the US-China Trade Deal and its effect on scandium developers

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✖ “Scandium and yttrium have been called out specifically in the latest trade deal between China and the US. I think this is very encouraging to scandium developers...We are laser-focused on building the markets for scandium sales from our Australian project, the Nyngan Scandium Project.” States George Putnam, President, CEO, and Director of [Scandium International Mining Corp.](#) (TSX: SCY), in an interview with InvestorIntel’s Tracy Weslosky.

George went on to say that the trade deal is going to benefit both Canada and Australia as both countries have prospects for scandium production in the near to intermediate term. He said that Scandium International is at the front end of that effort in Australia. George also said that the US Commerce Department has published positive initiatives with both Australia and with Canada on encouraging and supporting the development of critical metals projects including scandium.

To access the complete interview, [click here](#)

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Scandium International CEO on making end-user ready products

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March 21, 2018 – “Scandium is different. We can make products that go directly to the end-user. There is a shorter supply chain and we are much more in control of that.” states George Putnam, CEO, President and Director of [Scandium International Mining Corp.](#) (TSX: SCY), in an interview with InvestorIntel’s Peter Clausi.

Peter Clausi: I have not talked to you since May. We were chatting before this and I mentioned that scandium was a rare earth. You told me I am wrong. Tell me about that.

George Putnam: Scandium is actually a light transition metal. The difference that we see is that if you are in the rare earth business you are going to make a concentrate and you are going to need a refining capability downstream to actually get your product to the end-user. Scandium is different. We can make products that go directly to the end-user. There is a shorter supply chain and we are much more in control of that.

Peter Clausi: Your CAPEX must be less than.

George Putnam: The rare earth guys tend not to own the refinery that is downstream of them. I would say it is simpler and it is more direct. That is the biggest different for scandium. It is a plus.

Peter Clausi: Right. When we talked in May you were looking at signing a couple of letters of intent and moving the projects

along. You have since done that. Tell me about that.

George Putnam: Right. We are now focused on finding customers and signing sales contracts. This is what the first start of a sales contract looks like, a letter of intent to do some study and do some work on efficacy of scandium and understand what that value is to customers. That is when we know whether they are a true customer or not. It is important to note that the LOIs represent folks we are working with who are happy to have a public disclosure. We have got two kinds of programs underway. There is another set of programs that is very secretive because the customers, the potential customers, want it to be. We can tell you what we can tell you about and we will work with either type.

Peter Clausi: Given what scandium does, one would expect the military and aerospace to be involved in some way. Scandium makes metals lighter with more strength basically.

George Putnam: Right.

Peter Clausi: You were showing me some anodized pieces yesterday.

George Putnam: Yes. We think there is a real finish advantage, an anodization finish advantage to aluminum-scandium alloys. That may be the key element that brings some customers to the table. Not strength, not other properties, anodization. That finish is so important.

Peter Clausi: It would then resist oxidization or what we like to call rust.

George Putnam: Right. It would be more durable and it would be better looking for a very long time.

Peter Clausi: Right. You have a property in Finland. You have

done some work on, but the majority of your scandium would be coming out of your property in Australia...to access the complete interview, [click here](#)

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Putnam on Scandium International's new ventures testing the use of scandium alloys

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"Scandium International has made three recent announcements on Letters of Intent for new ventures testing the use of scandium alloys..." – states InvestorIntel's Jeff Wareham in an interview with George Putnam, CEO, President and Director of [Scandium International Mining Corp.](#) (TSX: SCY).

George Putnam: We have done one with AML, which is in the additive manufacturing or the 3D printing space. That one is very exciting. We made another one in the casting space with Ohm & Häner, which is a German company. One we just made was with a Swedish company called Gränges, which is a very significant producer of heat exchangers and radiators globally.

Jeff Wareham: Tell me a little bit more specifically about the news release with Gränges?

George Putnam: This one is probably the most significant of the three that we have done in here in January. Gränges is a world producer of, a world size producer, of heat exchangers. They claim to have 20% of the world's heat exchanger market in the automotive business. Scandium will, in their metals, will help them make lighter, stronger, more efficient radiators. We believe that is the case. We came to them. They knew about scandium. They believe that is the case. We need to test it now and understand where we can take it from there, but it is very exciting and very significant for the company.

Jeff Wareham: Would that be one of your core markets?

George Putnam: Yes it would. It could potentially be a very significant market for us. All three of them could be significant markets. The casting space and certainly the radiator space are bigger than additive manufacturing, which is just in its nascent growth phase. Yes, they are all significant and there are many others that could be significant too... to access complete interview, [click here](#)

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