

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

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



“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

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**

"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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## **CEO addresses #CTMS2017 audience on delivering the scandium promise**

In a recent presentation at InvestorIntel's 6th Annual Technology Metals Summit, George Putnam, President, CEO and Director of Scandium International Mining Corp. (TSX: SCY) delivered a presentation titled "Delivering on the Scandium Promise". Addressing industry and investors alike, George provided an overview of Scandium International's Nyngan Scandium Project in New South Wales, Australia. Georges notes that Nyngan Scandium project is a "game-changing discovery" as it comes from a reliable and stable source as he speaks to the current and future applications of scandium in the automotive,

aerospace, marine and electronics market...to access the complete presentation, [click here](#)

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## **InvestorIntel Interview with George Putnam on Scandium International's recent R&D Tax Incentive Program Award**

In an InvestorIntel interview, George Putnam, President, CEO and Director of Scandium International Mining Corp. (TSX: SCY) discusses the recent Australian Government's Research & Development Incentive Program award, and the latest advancement in the use of scandium. A better aluminum alloy for the CleanTech sector George explains, Scandium International is focused on developing the Nyngan Scandium Project into the world's first scandium-only producing mine. With an 80% interest in both the Nyngan Scandium Project, and the adjacent Honeybugle Scandium Property, in New South Wales, Australia; Scandium International is the is manager of both projects...to access the complete interview, [click here](#)

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# Putnam on the global scandium demand and Scandium International's +52.63% stock rise in 2015

February 10, 2016 – In a special **InvestorIntel** interview, Publisher Tracy Weslosky speaks with George Putnam, President, CEO and Director for Scandium International Mining Corp. (TSX:SCY) on how proper funding and increased interest in the scandium market may have been the catalyst for the +52.63% increase in their stock price in 2015. Citing rising global market interest in securing higher performance materials and a better aluminum alloy, George discusses Scandium International Mining Corp.'s focus on producing cost effective scandium for the expanding scandium market.

**Tracy Weslosky:** George I have to tell you I was so impressed, Scandium International was up 52.63% in 2015 and last year, if you were flat, that was considered having a rocking good year. Can you tell me why Scandium International fared so much better than the rest of the market?

**George Putnam:** Sure. I place most of the credit on the funding, the successful funding that we did in the second half of the year. You know, we raised \$3.6 million dollars U.S. We took in some investment from Andy Greig and put him on the board. We also did a royalty deal with Chris Jennings. That \$3.6 U.S. – in fact it's a little bit over \$5 million dollars Canadian today. That just empowered us to go on and do the things that we had pledged that we would do in the market, which is get a definitive feasibility study (DFS) underway so we did that. We announced that we contracted with Lycopodium and Altrius Engineering. We're well on the way to completing



that DFS.

**Tracy Weslosky:** I tell you George, we had a lot of companies last year that had record-breaking sales. They had money in the bank. They raised a lot more money, but their stocks did not move north. I think perhaps Scandium International fared as well as it did because of the interest in scandium. What do you think about that?

**George Putnam:** I couldn't agree with you more. There's a move underway – a search for better higher performing materials and aluminum and scandium makes for better aluminum alloy so it plays right into that space. I think there's been an increased awareness through last year and on into this year on that basis.

**Tracy Weslosky:** George you're an internationally renowned scandium expert. Can you tell our audience out there who may not be following scandium as closely as Christopher Ecclestone and Jack Lifton, who both perceive this to be a bull metal, why scandium is so interesting right now in the market?

**George Putnam:** Scandium enables the formation of a better aluminum alloy. It does that with strength increases. It gives a good strength push to a number of alloys. It also, and this is most important – adds a number of properties to aluminum alloys and it preserves the best properties and aluminum alloys that exist before scandium is put into them. Many alloys get stronger, but they get more difficult to work with and scandium preserves the properties and alloys that manufacturers like the most. That's the reason scandium is going to be so important...to access the full interview, [click here](#)

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