

Nano One Successfully Completes High Voltage Spinel Project

written by Raj Shah | January 11, 2018

January 11, 2018 ([Source](#)) – Dr. Stephen Campbell, Principal Scientist at Nano One (TSXV: NNO) (FSE: LBMB) (OTC Pink: NNOMF), today announced that Nano One has successfully completed an 18 month project developing cobalt free High Voltage Spinel (HVS) cathode material for lithium ion batteries, with the support of the National Research Council of Canada Industrial Research Assistance Program (NRC IRAP). HVS is suited to fast charging and high power applications and is a candidate cathode material in next generation solid state lithium ion batteries for automotive, consumer electronics and energy storage applications.

“We have met our objectives and made a number of significant breakthroughs” said Dr. Elahe Talaie, Senior Scientist and HVS team lead with Nano One. “Battery performance is excellent when our HVS is tested with lithium, graphite and lithium titanium oxide anodes (LTO). As previously communicated, our innovative process can control particle size and output voltage; and it stabilizes HVS for high temperature applications. All of these advances are critical to battery manufacturers. The project has led to two patent applications and HVS production is now ready for demonstration at pilot scale.”

Nano One can make HVS and other high performance cathodes using lithium carbonate or hydroxide, giving its process an advantage over manufacturing methods constrained to costly lithium hydroxide. HVS differs from other cathodes because it is made

from lithium, manganese and nickel, without the high cost and supply chain risk of cobalt. Nano One can control HVS particle size to tailor it for energy storage or power applications and its higher voltage enables simpler energy management systems and delivers increased power at high rates of discharge.

Dr. Campbell added, “higher volume samples are being made in our pilot and we look forward to beginning HVS evaluations with commercial interests in the new year”.

Nano One Materials Corp.

Dan Blondal, CEO

About Nano One:

Nano One Materials Corp (“Nano One” or “the Company”) is developing patented technology for the low-cost production of high performance battery materials used in electric vehicles, energy storage, consumer electronics and next generation batteries. The processing technology addresses fundamental supply chain constraints by enabling wider raw materials specifications for use in lithium ion batteries. The process can be configured for a range of different nanostructured materials and has the flexibility to shift with emerging and future battery market trends and a diverse range of other growth opportunities. The novel three-stage process uses equipment common to industry and Nano One has built a pilot plant to demonstrate high volume production and to optimize its technology across a range of materials. This pilot plant program is being funded with the assistance and support of the Government of Canada through Sustainable Development Technology Canada (SDTC) and the Automotive Supplier Innovation Program (ASIP) a program of Innovation, Science and Economic Development Canada (ISED). Nano One also receives financial support from the

National Research Council of Canada Industrial Research Assistance Program (NRC IRAP). Nano One's mission is to establish its patented technology as a leading platform for the global production of a new generation of nanostructured composite materials. For more information, please visit www.nanoone.ca

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