



## A REVIEW OF 2013 DEVELOPMENTS

In 2013 Lomiko firmly entered the exciting and vital world of graphene. We are looking forward to bringing our graphene efforts forward in 2014.

## STRATEGIC ALLIANCE WITH GRAPHENE LABS

On February 12, 2013, Lomiko and Graphene Labs agreed to co-develop a vertically integrated supply chain that includes a secure supply of high-quality graphite, cost-effective and scalable processing, tight quality control and integration of graphene-based products in end-user products. The end goal is to find commercially viable routes to make graphene-based energy storage devices.

## RESEARCHING GRAPHENE SUPERCAPACITORS

On May 29, 2013 SUNY Research Foundation at Stony Brook University, Graphene Laboratories Inc. and Lomiko Metals Inc. agreed to investigate novel energy-focused applications for graphene. The research foundation, through Stony Brook University's Advanced Energy Research and Technology Center (AERTC) and the Center for Advanced Sensor Technology (Sensor CAT), examined the most efficient methods of using this graphene for energy storage applications.

## GRAPHITE TO GRAPHENE CONVERSION

On September 17, 2013 Lomiko and Graphene Labs reported that natural graphite flakes were oxidized and turned into Graphene Oxide ("GO") by modified Hummer's method. As the result, a stable aqueous dispersion with concentration of 40 grams per litre was obtained. Further, the GO was converted into Reduced Graphene Oxide ("RGO"). The specific surface area of the RGO was found to be 500 square metres per gram and its electrical conductivity 4 (four) S per centimetre. These values are similar or exceeding the values for the RGO obtained from other samples of natural graphite taken for comparison and processed by the same procedure.

## CREATION OF GRAPHENE 3D LAB

On November 22, 2013 Lomiko and Graphene Labs announced the formation of Graphene 3D Lab Inc. to focus on the development of high-performance graphene-enhanced materials for 3D Printing. Lomiko will provide further graphite samples to Graphene 3D Labs as the exclusive supplier to Graphene 3D Labs and has invested \$ 50,000 in the start-up for 250,000 preferred shares.

3D Printing is a new and promising manufacturing technology that has garnered much interest, growing from uses in prototyping to everyday products. Today, it is a billion dollar industry growing at a brisk pace. High quality graphite is a base material for producing graphene. Essentially graphene is mixed with the existing plastic polymer used as the 3D printing medium. Done properly this mixing allows the graphene to "share" some of its qualities with the polymer making a 3D printing plastic polymer conductive. This material may be used to print 3D electronic circuits from a 3D printer.

## PROTOTYPE GRAPHENE SUPERCAPACITOR

On December 4, 2013 Stony Brook University, Lomiko and Graphene Laboratories Inc. ("Graphene Labs") announce they have reached a significant milestone by receiving a prototype graphene supercapacitor and a report from Stony Brook University and New York State's Center for Advanced Sensor Technology (Sensor CAT). The prototype of the supercapacitor was made using graphene composite material prepared using a proprietary technology developed at Graphene Labs. The measured specific capacitance of the prototype was found to be around 500 Farad per gram of the material. This value is comparable with the best values reported in the literature for a supercapacitor of this type.

## 2014 PLAN

Graphene 3D Lab will be focused on creating new patents related to the conversion process and its applications in the coming months. Lomiko will require further funding in 2014 and will announce plans shortly. Further, Lomiko has filed an Annual Information Form (AIF) and plans to list shares on a US Exchange as soon as possible. The participants in the Supercapacitor Project are now reviewing data options for the next step of the program. The Company has issued 1,825,000 options at \$0.10 each to directors and consultants exercisable for up to 60 months from the date of grant. The options are subject to a four-month hold period commencing January 6, 2014.



<b>TSX-V:</b>	<b>LMR</b>
<b>OTC:</b>	<b>LMRMF</b>
<b>FSE:</b>	<b>DH8B</b>
<b>Shares issued:</b>	83,675,756
<b>Market Capital:</b>	\$8.3 mil
<b>Working Capital:</b>	\$2.25 mil
<b>Shares fully diluted:</b>	99,778,950
<b>Insiders:</b>	25%