

# Graphene 3D Lab Inc.



Graphene  
Lab Inc.

## Investor Presentation

TSX-V: GGG



## Forward Looking Statements

Information set forth in this presentation may contain forward-looking statements. Forward-looking statements are statements that relate to future, not past, events. In this context, forward-looking statements often address a company's expected future business and financial performance, and often contain words such as "anticipate", "believe", "plan", "estimate", "expect", and "intend", statements that an action or event "may", "might", "could", "should", or "will" be taken or occur, or other similar expressions. By their nature, forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause our actual results, performance or achievements, or other future events, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements. Such factors include, among others, the following risks: the risks associated with outstanding litigation, if any; risks associated with project development; the need for additional financing; operational risks associated with mining and mineral processing; fluctuations in gold and other commodity prices; title matters; environmental liability claims and insurance; reliance on key personnel; the potential for conflicts of interest among certain officers, directors or promoters with certain other projects; the absence of dividends; competition; dilution; the volatility of our common share price and volume; and tax consequences to U.S. Shareholders. Forward-looking statements are made based on management's beliefs, estimates and opinions on the date that statements are made and the Company undertakes no obligation to update forward-looking statements if these beliefs, estimates and opinions or other circumstances should change. Investors are cautioned against attributing undue certainty to forward-looking statements.



# Company Overview

## What We Do

Graphene 3D Lab develops next-generation functional materials and makes possible multimaterial 3D printing of entire operation-ready devices.

## Our Vision

Our goal is to bring to market cutting-edge 3D printing technology that exploits graphene, a material with incredible properties. Our proprietary method has potential to enable a 'one-touch' capability that can print working electronic devices. This as of yet unrealized advancement may become the manufacturing process of choice in nearly every industry.



## Management



**Dr. Daniel Stolyarov** holds a PhD in Physical Chemistry from the University of Southern California and a MS Physics/Applied Mathematics from the Moscow Institute of Physics and Technology. Dr. Stolyarov serves as Chief Executive Officer of Graphene 3D Lab. He has expertise in nanomaterials and the formulation of nanocomposites, as well as experience leading the technical branch of Graphene Labs as the Chief Technology Officer. In his previous role at Energetiq, Dr. Stolyarov and his team won the 2011 Prism Award for the Laser-Driven Light Source they developed. He has also co-authored papers with Nobel and Kavli prize winners, as well as members of the National Academy of Sciences.



**Dr. Elena Polyakova** serves as Chief Operating Officer at Graphene 3D Lab. Dr. Polyakova is regularly invited to leading international conferences, she is well-known by players in industry and academia the world over. The scientific community regards her as an expert in two-dimensional materials. She is regularly contacted by journalists, including those from BBC and Bloomberg, as well as market analysts who are seeking her professional advice. Dr. Polyakova has co-authored papers with Nobel and Kavli prize winners, as well as members of the National Academy of Sciences.





## Management



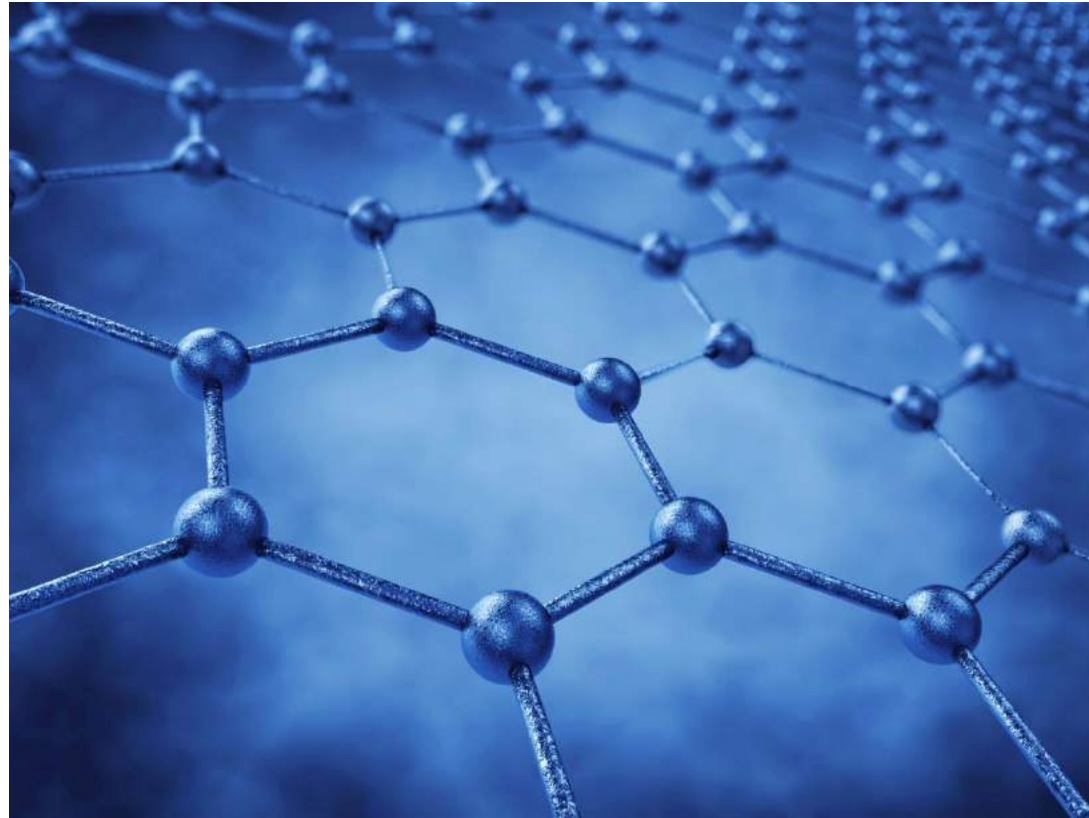
**Prof. Michael Gouzman** is a co-founder of Graphene 3D Lab. Prof. Gouzman is recognized as a leading global expert in 3D printing and is well-known in the community, holding 15 US and international patents. He has a deep understanding of the hardware of additive manufacturing and of the software requirements for the work of Graphene 3D Lab. As a acting Professor at Stony Brook University, Dr. Gouzman manages the SensorCAT Laboratory's Opto-Electronic Sensors and Systems Laboratory.



**Mr. Rob Randall** serves as Chief Financial Officer at Graphene 3D Lab. Mr. Randall has extensive experience with public company reporting and financial operations. Mr. Randall was the Corporate Controller of Etruscan Resources Inc. from 1997 to 2011, overseeing all financial operations. He also served as Controller of NovaGold Resources Inc. from 1997 to 2001 and also currently serves as the Chief Financial Officer of Stockport Exploration. Mr. Randall graduated with a Commerce Degree from St. Mary's University in Halifax and obtained his CA designation in 1987 with Coopers and Lybrand Chartered Accountants, where he was appointed as a Principal in 1995. He is a member of the Institutes of Chartered Accountants of Canada and Nova Scotia.



## Graphene: What is it?



Graphene is a single atomic layer of carbon atoms tightly bonded in a hexagonal lattice.

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## Graphene

Graphene is a revolutionary material much like plastic in the 1950s.

Graphene is a “wonder material” according to the *American Physical Society*, “a million times thinner than paper, stronger than diamond, more conductive than copper.”



**Nobel Prize, 2010**

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## 3D Printing: Basic Principles

3D Printers use computer files to fabricate physical objects.



**New way of making tools, clothing, furniture, musical instruments.**

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## The Future of 3D Printing: Our Value Proposition

**Problem:** Many different materials together are required to create an electronic device. Combining these materials is currently beyond ability of conventional 3D printing.

**Our Solution:** Graphene 3D Lab applies its technology to improve polymers by adding graphene and make polymers suitable for 3D printing of operation-ready devices.

Today



Tomorrow



## Technical Insights

Graphene and other nanomaterials can be used to produce many types of advanced 3D printer filaments (3D printer feed stock).

Filament type	Example attribute uses
Electrically conductive	3D printed circuit boards and electrical connectors
Thermally conductive	Heat sinks, reducing overheating of electronic devices
Mechanically reinforced	3D printed reinforced mechanical components
Magnetic	Complex magnetic cores, actuators
Transparent	3D printed, windows lenses and light guides



3D Printing Filaments



## Near Term Focus

- Graphene 3D Lab has produced ‘bench-top’ prototypes of our functional 3D printing materials.
- Our filaments are compatible with present-day FDM printers.

## Long Term Goals

- Create a line of 3D Printers that are optimized for multimaterial printing.
- Create an eco-system around our products that includes hardware, software, and materials.



## Market Opportunity

- 3D printing is a multibillion dollar market expected to grow between 20-40% over the next decade.
- Disruptive technology with the ability to revolutionize manufacturing.
- The company has proprietary technology which has the potential to bring 3D printing to the next stage of commercial development and create new markets.





## 4-Step Development Path

Scale-up manufacturing of graphene filaments for use in existing 3D printers – revenues expected to begin within 12 months

Establish joint ventures and develop direct and indirect shipping and distribution channels

Development of a proprietary 3D printer which takes full advantage of our advanced filaments

Ongoing revenue: sales/distribution of filaments, sales/distribution of printers



# Commercial Production Timeline

12  
Months

18  
Months

24  
Months

36  
Months

Develop scaled-up manufacturing process for proposed filaments

Sell filaments for use in existing 3D printers

Develop printers (hardware and software) uniquely suited for graphene based 3D printing

Continue to develop new graphene filaments with additional attributes

Sell printers and filaments

Revenue Begins



## Capital Structure

TSX-V: MIK	Post Transaction
Shares Issued	37,967,500
Fully Diluted	40,967,500

### Reverse Take Over (Estimated Amounts)

- Anticipated closing date June 2014
- Private placement at time of closing \$1.65M @ \$0.25 shares 6,600,000
- Escrowed Shares 21,100,000 shares



## Investment Highlights

- Directly invest in the fastest growing two segments in high-tech: 3D printing and graphene.
- The only pure play Canadian public company in the graphene space.
- Compelling capacity for future growth: Graphene 3D Lab is well positioned to expand the capabilities of 3D printing and create new multi-billion dollar markets.
- A strong IP portfolio: the company has unique proprietary technology related to 3D printing with graphene.
- Experienced executive team with deep domain knowledge and a proven track record of success.





## Contact Information

**Website:** [www.graphene3Dlab.com](http://www.graphene3Dlab.com)

**Phone:** (631) 405-5114

**Email:** [investors@graphene3Dlab.com](mailto:investors@graphene3Dlab.com)

### **Graphene 3D Lab**

4603 Middle Country Rd Suite 111

Calverton NY 11933