Graphene 3D Lab
TSX-V: GGG OTCQB: GPHBF

Corporate Overview
Feb 28, 2017
Corporate Overview

Graphene 3D Lab is an advanced materials company. We develop and manufacture graphene enhanced materials with a focus on:

- Energy Storage
- Coatings & Adhesives
- Composites
- 3D Printing
- Energy Storage
- Coatings & Adhesives
- Composites
- 3D Printing
Development Timeline

Graphene Price

Inexpensive-widely used

- Military, Aerospace, Robotics, Energy Storage
- Specialized Consumer Markets (e.g. Sports goods, Construction)
- Mass Market Consumer Goods

Research and Development
- 3D Printing & Niche Markets

Timeline:
- 2010
- 2015
- 2017
- 2019
- 2021
Why Graphene?

Advantages of Graphene Composites

Graphene can be added to other materials and can make them better.

- **Electrically Conductive**: $x 10^6 - 10^{12}*$
- **Thermally Conductive**: $x 3*$
- **Mechanically Strong**: $x 10 - 30*$
- **Green Material**: No metals

*Increase in properties when Graphene incorporated into materials
Graphene Production

- The method of large scale graphene production is currently patent pending.

- **Our competitive advantage:** we can produce high end quality graphene with less toxicity and more cost effectively than anyone else in the world.

- This “in house” technology enables us to manufacture high quality large-scale graphene flakes that allow us to simultaneously produce multiple graphene materials for our customers.

Transmission Electron Microscope Images of Graphene flakes
R&D Materials

Highlights

- **eCommerce**: Graphene Supermarket® is the world’s largest collection of graphene products for online purchase (100+ products)
  - Distributed online at Graphene Supermarket® e-platform, www.graphene-supermarket.com
- In operation since 2010
- Graphene Products include:
  - Graphene wafers
  - Graphene oxide
  - Nanopowders
  - Conductive Inks and Sheets
  - TEM Grids
  - Flexible Graphene Coatings
Coatings & Adhesives

- Established epoxy production capacity
- Released a conductive metal carbon filled epoxy (G6-Epoxy™).
- eCommerce: Distributed under G6-epoxy® brand, www.g6-epoxy.com
- Planning to expand materials portfolio in 2017
3D Printing

- Expanded our R&D and manufacturing facility
- Successfully released a line of specialty filament products.
- Materials portfolio includes:
  - Conductive
  - Flexible
  - Magnetic
- eCommerce: Distributed under BlackMagic3D® brand, [www.blackmagic3d.com](http://www.blackmagic3d.com)
Composites

G6-Impact
Carbon fiber-graphene composite with excellent vibration dampening and shock absorbing properties

Applications:
- Power tools
- Automotive
- Military

New materials are in the development pipeline
Energy Storage

Our near term goal is to build a Lithium Ion Battery with **higher power density** than other energy storage devices.

**Targeted Technology Highlights**

- Advanced chemistry
- Novel electrode design
- Faster charge/discharge time
- Unique features of our graphene materials are utilized

**Collaboration with Stony Brook University**

- MOU signed, the University to provide matching funds to cover R&D efforts
- Graphene 3D Lab gets access to the University’s state-of-the-art research facility and expertise

**Partnership established in Nov 2016**
Contact Us

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