

# GRAFOID: LEADING THE GRAPHENE REVOLUTION

Graphene is the revolutionary 'wonder material' that will forever change the world. Grafoid Inc. endeavors to become a world-leading graphene research, development and investment company, which jointly establishes international standards for the production of economically scalable, functional graphene and develops graphene applications for the betterment of humanity, in conjunction with like-minded partners. At the forefront of the Graphene Revolution, Grafoid's financial and scientific investment resulted in a novel, one-step, patent-pending process for the large-scale extraction and mass production of pristine, few-layer graphene, sourced directly from raw, unprocessed graphite ore, leaving the lowest possible ecological footprint. The completely unique, proprietary process results in what Grafoid regards as a new global standard for economically scalable highpurity graphene products — trademarked under the Meso-Graf™ trade name — that can be tailored to both industrial and commercial applications.

## WHAT IS GRAPHENE?

Graphene is the revolutionary 'wonder material' that will forever change the world.

- A two-dimensional, one-atom-thick allotrope of Carbon, derived from natural Graphite
- The Strongest Material ever Measured
- The Thinnest Material in the World
- The Stiffest Known Material
- Transparent, Stretchable, Highly Flexible and Incredibly Light
- The Most Impermeable Material on Earth
- The World's Most Conductive Material
- Incredibly Energy Efficient

Graphene holds the potential to bring about a new era in material science. A potentially 'disruptive' technology, the addition of graphene to most any

material (including plastics, polymers, metals, batteries, etc.) tremendously enhances the properties of said material. The properties of graphene are truly amazing, and the potential applications extend across every industrial sector. The total graphene industry size impact exceeds \$100 billion.

"Graphene, on its own, can't really make anything.
But graphene can make everything better."

**Gary Economo**Chief Executive Officer
Grafoid Inc.

"The key vendors dominating this marketspace are BASF, **Grafoid**, IBM, and Samsung."

*Infiniti Research Limited* (October 2013)

## THE GRAFOID ADVANTAGE — COMMERCIALIZING GRAPHENE

The greatest challenge to commercializing graphene is being able to produce high-quality material, on a large scale at a low cost — and in a consistent, reproducible manner. The key to successfully commercializing graphene is based on 3 primary factors:

- 1. Having unlimited access to a secure source of high-grade, high-quality graphite. *Grafoid has partnered with Focus Graphite Inc. (TSX-V: FMS | OTCQX: FCSMF | FSE: FKC) for a direct source of ultra-high-grade graphite from its flagship Lac Knife graphite project in Quebec, Canada, which is transported to Grafoid's production facilities in Ontario, Canada.*
- 2. Being able to produce pristine graphene on an economically scalable basis. *Grafoid has* successfully developed a proprietary, environmentally friendly, one-step process to produce pristine graphene in bulk with MesoGraf™ and is currently producing graphene on a commercial scale.
- **3.** Partnering with the right players in the development of the right applications. *Grafoid has launched a global vertical-integration platform to produce, functionalize and commercialize graphene with numerous blue-chip, household name joint venture partners.*

Grafoid excels in all three aforementioned areas, effectively addressing the fundamental barriers to graphene commercialization. Grafoid brings world-leading expertise in graphene, resolves commercial scalability issues, tailors graphene for unique applications, and provides solutions for achieving success.



### MESOGRAFTM — REDFINING GRAPHENE

The world's first trademarked graphene, Grafoid's MesoGraf™ is a touchstone for graphene commercial application development. Grafoid's technology — developed by the National University of Singapore, Graphite Zero Pte. Ltd. and Grafoid's President, Chief Technology Officer and Founding Partner, Dr. Gordon Chiu — produces pristine, high-energy density MesoGraf™ functional graphene at signifiant gross margins. Grafoid's unique patent-pending production process does not use harsh chemicals — normally employed in graphene production — that damage the material or diminish any of its extraordinary properties; creating a high-yield, high-energy-density graphene. MesoGraf™ achieves Grafoid's vision of a global standard for economically scalable graphene products that can be tailored to specific industrial, commercial, military, biomedical, and humanitarian applications. Grafoid believes MesoGraf™ is a 'game-changer.' Why? Because MesoGraf™ may afford every company the opportunity to utilize low-cost, high-purity graphene in all of their products, by offering the most direct, clearest, fastest, affordable way toward graphene's commercialization on a global scale.

#### THE GRAFOID GLOBAL PLATFORM

Grafoid is the global platform to deliver mine-to-market graphene products. The Company has entered into a number of high-profile joint venture application development relationships with leading industrial and academic partners around the world for the development of next-generation products. Grafoid is engaged in the development of graphene patent joint ventures globally in the areas of renewable energy, advanced polymer materials, bio-medicine, thermal dispersion technologies, coatings, and a number of classified material development projects. The founding of joint venture partnerships to develop next-generation MesoGraf<sup>TM</sup>-based products drive Grafoid's business model. Grafoid's extensive joint venture relationships — 15 currently — demonstrate the Company's global market penetration and acceptance attained over a 24-month period. Grafoid's process, intended to lead the global commercialization of graphene, is unique. No other known graphene produced can match the characteristics of MesoGraf<sup>TM</sup> — low cost, mass produced, defect free and functional. Grafoid believes that, for the first time, industry will have access to high-quality graphene in bulk at affordable prices.



### **MANAGEMENT TEAM**

Jeffrey York Chairman

Gary Economo
Chief Executive Officer

Dr. Gordon Chiu President & Chief Technology Officer

Judith Mazvihwa-MacLean Chief Financial Officer

Chester Burtt
Director of Communications

Wayne Onello Vice President, Operations

Thomas H. Cruikshank Strategic Advisor

#### GRAFOID PARTNERS

HOW GRAFOID COMPARES	GRAFOID	Competitors
Sells graphene solutions	<b>©</b>	×
Unique, proprietary, one-step process to produce economically scalable graphene	<b>©</b>	×
A diverse company that will not depend on the success of one application	<b>©</b>	×
Partners with industry leaders worldwide to advance joint applications	<b>©</b>	×
Positioned to generate revenue from every market sector	<b>©</b>	×
MesoGraf™ – Grafoid's vision of a Global Standard for Graphene	<b>©</b>	×
Environmentally friendly and sustainable	<b>©</b>	×
44		













### **CONTACT**

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### **GRAFOID ACQUISITIONS**



