

CONSOLIDATED
NANOTECH
CORP.

*Moving Nanomaterial Projects
Forward*

What Does CONSOLIDATED NANOTECH CORP. Do?

CONSOLIDATED NANOTECH is the result of three groups with complementary backgrounds affiliating to form a new consultancy. We are focused on markets, economics, technologies, and intellectual property issues necessary for commercialization of nanoengineered/advanced materials and their incorporation into end-user products. Clients include small and large companies throughout the world.

We have helped our clients with:

- product development
- market expansion of existing products
- acquisition/divestiture of new/old technologies
- due diligence for mergers and acquisitions
- identification of the competitive landscape for short/long term strategy
- overall market perception and awareness of the client and its products

Our Niche

We at *CONSOLIDATED NANOTECH* focus on advanced non-commodity materials that are at their early stages of commercial development, where challenges of scaleup, integration, and market focus are critical. The nanoengineered materials we have worked on include:

- Polymers
- Ceramics
- Metals
- Biomaterials

Some Typical Projects

- ***Due Diligence:*** Our projects have entailed reviews of production, purification and waste-disposal processes, physical plant inspections, patent analysis, and verifications of sales/market forecasts for potential acquirers.
 - Example: representing a potential acquirer's interests in the acquisition of a carbon nanotube manufacturer
- ***Patent Portfolio Analysis:*** We have helped clients assign realistic values to intellectual properties and/or develop strategies for benefitting from new patents obtained as part of an acquisition.
 - Example: developing a strategy for an early-stage nanomanufacturing firm to benefit from its broad patents with applications that ranged from electronic materials to cosmetics.

Typical Projects

- Continued -

- ***Market Analysis:*** Some of our clients have asked us to help evaluate potential markets for new materials that incorporate nanomaterials in their compositions.
 - **Example:** providing a fact-based market assessment to a client that was interested in acquiring a line of new ceramic coatings with applications from automotive to cookware.
- ***Opportunity Assessment:*** Our clients know their own businesses far better than we do. They have, however, often found our viewpoint, as an independent outsider, to be helpful in identifying new opportunities or products that may fit a need, and/or in identifying issues that will need to be overcome.
 - **Example:** participating in a major food and beverage manufacturer's "nano" initiative by doing the research necessary to identify how it might fit into challenging areas ranging from energy conservation to water purification.

Typical Projects

- *Continued* -

- ***Product Development:*** Clients have asked us to help develop nano-materials for specific applications. This type of assignment typically involves identifying a particular nano-material and its coating, as well as the way it can be integrated into the client's core products.
 - **Example:** working with a client to develop a nano-based material for use as a coolant in a heat transfer product. In addition to identifying the appropriate chemistry of the nano-particles, their optimum particle size and concentration are being established to maximize heat transfer while minimizing negative factors such as abrasion and pumping energy requirements (and product cost.)

From Initial Discussions

- **Based on our backgrounds and our proactive business model, *CONSOLIDATED NANOTECH* has been able to discuss the client's needs with well-researched viewpoints and unique insights in all of our projects to date.**

To Completed Projects

Our backgrounds enable us to complete projects efficiently, and to deliver vital, relevant and project-specific information to clients in a timely and cost-effective manner.

CONSOLIDATED NANOTECH provides:

- **significant experience with the use, production and economics of using nanomaterials in a variety of industries, products and markets**
- **an independent analysis of data and/or commercialization plans, and actionable recommendations**
- **assurances of confidentiality**

Our Business Model

- **Typically, we do not seek to understand all aspects of your business; we function on a “need to know” basis so your confidential business and mission-critical information is not jeopardized. We just need to know what your requirements are for a particular project.**
- **We do not withhold ways and methods from clients; we talk with our industrial and academic contacts and use publicly-available sources as well as internal non-confidential materials.**
- **While we will have occasional discussions with your employees, we typically do not work side-by-side with them; we are a group that functions autonomously**

Who are the Team Leaders?

- **Our primary Team Leaders are:**
 - **Markets and Competitive Matters**
 - *Sam Brauer, Ph.D.*
 - *Background & Activities at WWW.NanotechPlus.net*
 - **Technological Matters**
 - *Herbert W. Cooper, Eng.Sc.D., FAIChE*
 - *Background & Activities at WWW.Dynalytics.com*
 - **Intellectual Property Matters**
 - *David A. Kalow, J.D.*
Lawyer for Consolidated Nanotech Corp.
 - *Background & Activities at WWW.Kalow.com*

Team Leaders

Markets and Competition: Sam Brauer

- Samuel Brauer, Ph.D. is the founder of Nanotech Plus, LLC an alliance of consultants focused on the business of nanotechnology offering analysis and operational assistance in this burgeoning field to major corporations, small materials companies, venture and angel investors, and other financial institutions. Established in 2004, the firms projects have ranged from due diligence on a carbon nanotube firm to estimating markets for novel therapeutics. Based on our findings, corporations have been able to develop new research directions in energy, filtration, and pharmaceuticals.
- Prior to Nanotech Plus, he was with the Business Communications Company for seven years, leading market research on a broad range of advanced materials topics including polymer nanocomposites, carbon nanotubes, advanced polymer composites, DNA micro arrays and *in vitro* toxicology.
- He received his doctorate in bioinorganic chemistry involving chromium carcinogenesis from Dartmouth in 1990 and did postdoctoral work at UC Davis.

Team Leaders

Technological Matters: Herbert Cooper

- Dr. Herbert W. Cooper has more than 50 years of experience working at the intersection of economics, technology and regulatory requirements. This includes the applications and production of advanced materials such as carbon nanotubes, many due diligence assignments, and optimization of the economic performance of production facilities during their design and operational phases. Technological, environmental, health and safety, and regulatory constraints are incorporated into the optimizations to help assure that the facilities could be operated in the sustainable manner required in today's world.
- Additional information, including a description of typical projects and a list of clients is available at www.Dynalytics.Com
- Dr. Cooper received his Doctorate in Chemical Engineering from Columbia University, where he focused on thermodynamics and process design.
- In addition to his industrial work, until recently he had been the Chair of the American Institute of Chemical Engineer's Metro NY Section.

Team Leaders

Intellectual Property: David Kalow

- David A. Kalow is an intellectual property (IP) lawyer with over 35 years experience in litigation, licensing, protection and assisting corporate deals relating to combinations of patents, trade secrets, trademarks and copyrights, across a wide variety of science/technology/creative fields in physics, chemistry, biology, software and design, including nanotech, cleantech, bioinformatics, DNA synthesis, specialty and commodity chemicals, medical devices, pharmaceuticals, diagnostics, electronics and software.
- A veteran of large and small law firms, including 16 years with his own boutique (Kalow & Springut), he is now a solo attorney focusing on IP Strategy, helping companies and investors improve their profits, revenue, value and ROI via better usage of all aspects of IP.
- He is a graduate of the University of Chicago, College and Law, and is an author of many IP articles, a frequent lecturer including on IP ethics and issues, a former adjunct professor at Seton Hall Law School (biotechnology and the law) and a former adjunct professor at NYU-Poly (IP management).
- As an attorney for Consolidated NanoTech Team leaders Herbert Cooper and Sam Brauer, he assists with the mixed/combined business-technical-legal evaluation and analysis of opportunities and problems relating to nanotech and advanced materials.

CONSOLIDATED NANOTECH, CORP.

*Moving Nanomaterial Projects
Forward*

CONTACT INFORMATION

9 Sheffield Hill, Woodbury, NY 11797

[T] 516 921 7631

[F] 516 921 7632

[E] Info@ConsolidatedNanoTech.com

Web Site: www.ConsolidatedNanoTech.com