

Greg Fenton of Zentek Discuss Anti-Icing Drone Technology & Spinning Out the Albany Graphite Project

written by InvestorNews | May 23, 2023

In this InvestorIntel interview, Tracy Weslosky talks with [Zentek Ltd.](#)'s (NASDAQ: ZTEK | TSXV: ZEN) CEO and Director Greg Fenton about the [successful testing](#) of its "best-in-class" [icephobic coating](#) for drones, first in wind tunnels and then real-world conditions.

While the drone with uncoated propeller blades rapidly lost the ability to maintain flight in an outdoor icing environment, Greg discusses how the drone coated with Zentek's icephobic coating prevented ice from adhering to the surface and was able to maintain flight until the end of the battery life. Greg explains how Zentek is positioned to potentially be the only company in Canada with a product to help drones fly in winter conditions to meet [Transport Canada's](#) anti-icing requirements for drones.

Greg also provides [an update](#) on Zentek's [Albany Graphite Project](#). With an increased demand for North American battery supply chains, Greg discusses how there has been a renewed market interest in their Albany graphite project. Recognizing this, Greg talks about Zentek's decision to resume work on the project and transfer the project to its wholly-owned subsidiary Albany Graphite Corp., to secure funding for its development and attract investors, including discussions with battery manufacturers and car companies.

To access the full InvestorIntel interview, [click here](#)

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About Zentek Ltd.

Zentek is a graphene technology company focused on the research, development, and commercialization of graphene-based novel products to give its commercial partners a competitive advantage by making their products better, safer, and greener.

Zentek's patented ZenGUARD™ coating is shown to have 99-per-cent anti-microbial activity and to significantly increase the bacterial and viral filtration efficiency of both surgical masks and HVAC systems. Zentek's ZenGUARD™ production facility is located in Guelph, Ont. Zentek's second technology is the patent-pending ZenARMOR™ platform focused on corrosion protection applications.

To know more about Zentek Ltd., [click here](#)

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Zentek's revolutionary graphene based icephobic coating targets billion dollar ice-resistant market

written by Tracy Weslosky | May 23, 2023

Ice build-up on wind turbines, airplanes, and cars in cold

regions is a real problem. For example, Texas residents may remember the February 2021 ice storms and extreme cold weather that hit south-central USA. The storm resulted in over [4.5 million](#) homes and businesses being without power for several days. Frozen gas lines and ice buildup on wind turbines were key factors in the power failure as wind generation dropped by [almost 50%](#) over the entire state of Texas.

The airline industry spends significant time and money 'deicing' (removing ice and snow build-up) on their planes before take-off. Consumers in cold countries often have to do the same with their car windscreen. The drone market is another industry where deicing is important.

Now there is a better solution to de-icing. Today's company has developed an 'icephobic coating' technology that is effective at preventing ice build-up. '[Icephobic](#)' effectively translates to 'repelling ice'. It is also sometimes referred to as 'ice-resistant coating'.

The global market for ice-resistant (icephobic) coatings

It has been reported that the global market for ice-resistant coatings is forecast to reach [more than \\$1 billion in 2023](#), growing at a CAGR of 23.3%.

An excerpt from a 2021 report on the ice-resistant coatings and surfaces market



Source: [ResearchAndMarkets](#)

[Zentek Ltd.](#) (NASDAQ: ZTEK | TSXV: ZEN) [announced](#) in September strong test results supporting their [patent-pending](#), graphene-based, icephobic coating technology. The testing concluded that Zentek's icephobic technology is durable in adverse conditions

for both wind turbine and drone industries, which are the initial focus markets for Zentek's icephobic coating.

Zentek [state](#) that their icephobic "coatings have demonstrated an adhesion strength repeatedly around 20 kPa (results under 100 kPa are considered to demonstrate low adhesion), a significant improvement over the current commercial products. Testing at the [National Research Council](#) (NRC) and [Anti-icing Materials International Laboratory](#) (AMIL) in Quebec is ongoing."

Some of the September [announcement](#) highlights included:

- "Flight tests in real-world icing conditions demonstrated good performance of Zentek's coating, with results indicating retardation of ice accretion (icephobicity) and low adhesion to accreted ice...
- Sand erosion testing demonstrated medium to good performance at a high speed of 540 km/h.
- Rain erosion testing at AMIL demonstrated good performance at 160 km/h and 320 km/h based on our interpretation, speeds at which the leading edge of wind turbines blade tips are exposed.
- NRC drone testing demonstrated consistent results of maintaining control of rotor thrust in icing conditions....
- Zentek has filed a full patent application with the Patent Cooperation Treaty, the international patent office, on August 2nd, 2022, for Nanomaterial-Enhanced Elastomer for Passive Ice Accretion Prevention."

[Source](#)

Icephobic coatings have many applications and significant demand

An exciting part of the above news is the potential for Zentek's technology to be used in a huge variety of uses globally, particularly the energy and aviation/aerospace industries.

Zentek [states](#):

“Commercial applications of our patent-pending coating could be used in drone technologies allowing for efficient all-weather operation. Other additional applications include powerlines, large wind turbines, ship structures (railings, etc.), and oil rigs, especially in Arctic operations, along with tall buildings where ice buildup could pose a public hazard.”

Icephobic coatings could revolutionize aviation and wind power generation industries



Source: [Zentek website/icephobics](#)

In addition to their icephobic coatings Zentek is also advancing multiple other initiatives including the commercialization of their “[Canada patent allowed](#)” [ZenGUARD™](#) (a ‘graphene-silver coating’ shown to have [99% antimicrobial activity](#) used on masks or PPE, also used in HVAC systems to improve air quality), aptamer enabled [Pathogen Detection Technology](#), [anti-inflammatory therapies](#), [fuel additives](#) (to reduce carbon emissions), [conductive filaments](#) for 3D printing, [fire retardant coatings](#), and [graphene wrapped silicon anodes](#) for batteries.

Zentek Ltd. trades on a market cap of [C\\$235 million](#) on the TSXV or [US\\$175 million](#) on the Nasdaq.

With technology for the real world, Zentek's graphene nanotech masks are now on store shelves

written by InvestorNews | May 23, 2023

At the start of the year, I was asked to pick a name that I thought could be the "[stock to watch in 2022](#)". Naturally the tendency is to step a little further out the risk curve because where's the fun in picking something like Enbridge, Inc. (TSX: ENB | NYSE: ENB) and being up 15% year-to-date plus dividend when you could be up 130% over that same time period with a stock like Ensign Energy Services, Inc. (TSX: ESI). In reality, I would have been a hero if I had picked either of those in light of what the majority of the market has done since the start of 2022. However, I went down the technology route (or should I say rout) and the name I picked has been swept lower in a market beating up anything resembling tech. On top of that, the company I selected was also the focus of a short report, although that appears to have been [addressed in March](#) and seems to be a non-issue. But technology stocks are still seeing some pretty unpleasant days here and there, and the pain may not be over yet.

Nevertheless, until the year is over, I still have time to be vindicated with my 2022 pick – [Zentek Ltd.](#) (NASDAQ: ZTEK | TSXV: ZEN), which is certainly doing better than Shopify, Inc. (TSX: SHOP | NYSE: SHOP) but sadly that's not setting the bar too high. Reader's will recall that Zentek is an IP development and commercialization company focused on next-gen healthcare solutions in the areas of prevention, detection, and treatment.

Zentek is currently focused on commercializing ZenGUARD™, a patent-pending coating shown to have 99% antimicrobial activity, including against COVID-19, and the potential to use similar compounds as products against infectious diseases.

The focus on ZenGUARD™ is paying off with an announcement last week of the [sales and distribution of ZenGUARD™ Masks](#) through Mark's, a member of the Canadian Tire Family of Companies. Mark's, which operates over 380 stores across Canada, has placed an initial order for ZenGUARD™ coated masks to be sold at select stores and online. Mark's VP Iain Summers is quoted as saying "We are relentlessly focused on innovative new technologies and products that help keep Canadians safe and comfortable. Zentek, and their ZenGUARD™ masks are a great made-in-Canada innovation using a technology that, when applied to essential masks, provides ultimate protection, while maintaining comfort and breathability. It's the right fit for our customers." This news helped Zentek stock rally 14% on the day.

It was the progress the Company was making with ZenGUARD™ and their other unique IP opportunities that led to Zentek being my stock to watch. Other technologies under development include an icephobic coating that can potentially be used to improve aircraft and drone safety and sustainability. The Company anticipates applications for aircraft, wind turbines, ocean vessels, and building structures to increase safety and efficiency outcomes in ice-forming weather conditions. The Company recently reported [excellent results in three rounds of testing](#) of its icephobic coating, including laboratory tests, real-world flights and applications related to drone operations in adverse weather. Next steps include testing its coating for sand and rain erosion, and other tests are being planned that will evaluate the coating as part of a hybrid ice protection system, where the icephobic properties are combined with a heated de-icing system with the aim to improve efficiency of

current ice protection methods used in general and commercial aviation.

In April, Zentek provided an update on a previously awarded R&D test contract through the Innovation Solutions Canada (ISC) Testing Stream [to test ZENGuard™ coated HVAC filters](#) with interest from 3 different units within the National Research Council of Canada. After completion of Phase 1 testing where its ZenGUARD™ coating was successful in reducing airborne organisms from passing through coated filter material while not inhibiting air flow, it will now [proceed to Phase 2 testing](#) within its ISC Testing Stream contract. Phase 2 testing in a real-world classroom environment is aimed to generate additional safety and efficacy data. The importance of indoor air quality and improving health is a top priority for numerous organizations globally, including the Canadian and [U.S. governments](#), and could be an important commercialization milestone for Zentek in this critical area.

Sure all these initiatives were already on the go at the start of the year, but in my opinion, the Company is making great strides in pushing these projects to the revenue generation stage. In fact, ZenGAURD™ actually started generating revenue in the final quarter of 2021. Additionally, Zentek raised C\$33 million in January and have a quarterly cash burn rate of roughly C\$2-C\$2.5 million per quarter (and no debt), so they should be fine for available capital. With a market cap of roughly C\$247 million there are plenty of creative and unique opportunities being developed to propel this Company into the future and vindicate my selection.

Greg Fenton and Byron King discuss Zentek's highly innovative graphene Icephobic coatings for aircraft and wind turbine lifetime and safety improvement

written by InvestorNews | May 23, 2023

In a recent InvestorIntel interview, Byron King spoke with Greg Fenton, CEO and Director of [Zentek Ltd.](#) (TSXV: ZEN) about [the results](#) from testing on Zentek's [Icephobic](#) coating that provides an effective de-icing and anti-icing solution for drone and wind turbine markets and about Zentek's "imminent" [listing](#) on the Nasdaq.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Greg Fenton highlighted the application of Zentek's icephobic coating in aviation, drones, powerlines and wind turbines and explained how it can improve safety and efficiency while retaining its icephobic properties for years. Speaking about the next step of testing Zentek's icephobic coating for sand and rain erosion, Greg pointed out how Zentek plans to take its products to the marketplace without having to incur huge capital expenditure.

To watch the full interview, [click here](#).

About Zentek Ltd.

Zentek is an IP development and commercialization company

focused on next-gen healthcare solutions in the areas of prevention, detection and treatment. Zentek is currently focused on commercializing ZenGUARD™, a patent-pending coating shown to have 99% effectiveness in antimicrobial activity reduction, including against the COVID-19 pathogens, and the potential to use similar compounds as products against other infectious diseases. The Company also has an exclusive agreement to be the global commercializing partner for a newly developed rapid aptamer-based pathogen detection technology.

To learn more about Zentek Ltd., [click here](#).

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Bristow goes with technology and selects the stock to watch in 2022

written by InvestorNews | May 23, 2023

Welcome to 2022! I'm cautiously optimistic that this will be the year we get to put Covid in the rear-view mirror and get on with life without always waiting for the next shoe to drop (or a new variant to take hold). I'm happy to put 2021 in the history books and anticipate the bright future that could be. In that vein, I'd like to look ahead to what I think could be an exciting story for 2022. Now don't get me wrong, I'm not saying this is my top pick or suggesting it will go up. This is simply my perspective on a company that has a lot going on that could be rewarded by the market this year.

The path of least resistance, after this week's market action, would be to pick a uranium stock. Between how this group performed in 2021 and even more impressively, the first couple of trading days of 2022, it would certainly make for an easy article to write. I'm also a fan of junior base and precious metal mining companies, especially ones with plenty of results pending, but not today. The future is technology, so my exciting stock for 2022 is a technology company that posted a respectable 35% return in 2021 but is well positioned for 2022. It also happened to evolve out of a junior mining exploration company so it's the best of both worlds.

If you haven't figured out what company I'm talking about yet, it's [Zentek Ltd.](#) (TSXV: ZEN), formerly known as ZEN Graphene Solutions Ltd. There is so much going on at Zentek it's hard to know where to start. The Company currently describes itself as an IP development and commercialization company focused on next-gen healthcare solutions in the areas of prevention, detection and treatment. Zentek is currently focused on commercializing ZENGuard™, a patent-pending coating shown to have 99% antimicrobial activity, including against COVID-19, and the potential to use similar compounds as products against infectious diseases. The Company also has an exclusive agreement to be the global commercializing partner for a newly developed aptamer-based rapid pathogen detection technology. But that's just the tip of the iceberg in my opinion.

The near-term catalyst is all about the antimicrobial coating ZENGuard™, which was developed as a virucidal graphene-oxide ("GO") based compound to be applied as a coating onto fabrics, which included personal protective equipment such as face masks in an effort to increase protection afforded by such products. In September 2021 the Company received [Health Canada approval](#) for the sale of ZENGuard™ coated masks and entered into a

binding definitive [license and supply agreement](#) with Trebor Rx Corp. for the supply of ZENGuard™ to coat face masks and potentially other health care products. To date, Trebor has purchased, and the Company has delivered, quantities of ZENGuard™ coating sufficient for the production of 10,000,000 masks currently done via third parties. However, development is underway of the Company's industrial scale facility to produce ZENGuard™ and to coat materials. The Company anticipates assembly and installation of the industrial scale production equipment to be completed during Q1 2022, at which point production is expected to commence while commissioning, optimization and production ramp-up occurs over the following two to three months. Once this industrial process is in operation, the Company expects the production capacity of ZENGuard™ to increase significantly.

Zentek recently closed a bought deal public offering and a non-brokered private placement for aggregate [proceeds of C\\$33 million](#) to assist in the build out of their facility as well as research and development, acceleration of business growth opportunities and working capital. Other growth opportunities include the development of a new carbon-based nanotechnology-enhanced [icephobic coating](#) to reduce ice accretion. The Company anticipates applications for aircraft, wind turbines, ocean vessels, and building structures to increase safety and efficiency outcomes in ice-forming weather conditions. In late November Zentek announced it had been awarded an R&D test contract through the Innovation Solutions Canada Testing Stream to [test ZENGuard™ coated HVAC filters](#) with interest from 3 different units within the National Research Council of Canada. Other innovations include the [development of a stable diesel fuel additive](#), which increased the performance of diesel fuel by up to 10% in initial testing.

There is an awful lot going on at Zentek so I would encourage

you to go check out their [website](#) to learn more because I've only scratched the surface of this stock to watch in 2022. Granted it's not a small cap with a market cap of roughly \$466 million after the closing of the latest capital raise earlier this week. Nevertheless, there are plenty of near-term catalysts with having their own production facility operational in the next few months and some pretty creative and unique opportunities being developed to propel this Company into the future.

Greg Fenton on the significant medical market interest in Zentek's ZENGuard™ nanotech coatings, plus its new carbon-based icephobic coating

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In a recent InvestorIntel interview, Tracy Weslosky spoke with Greg Fenton, CEO and Director of [Zentek Ltd.](#) (TSXV: ZEN) about Zentek's new [icephobic coating](#) to reduce ice accretion on surfaces, and about the significant market interest in their ZENGuard™ coating following its Health Canada approval.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Greg Fenton said that the company's recent [change of name](#) from ZEN Graphene Solutions Ltd. to Zentek Ltd. reflects its

evolution from a mining company to a technology company, developing intellectual properties. Having recently applied for an up listing to the Nasdaq, Greg said that Zentek is primarily focused on nanotechnology-enabled healthcare solutions, and continues to develop intellectual properties for other industries as well.

To watch the full interview, [click here](#).

About Zentek Ltd.

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