

Greg Fenton Discusses Zentek's 2024 Progress and Exclusive Aptamer Technology Rights

written by InvestorNews | February 21, 2024

In a detailed interview with Tracy Weslosky, Greg Fenton, CEO and Director of [Zentek Ltd.](#) (NASDAQ: ZTEK | TSXV: ZEN), shared insights into the company's strategic progress and emerging opportunities, particularly emphasizing its work with aptamer technology. With an exclusive global license for innovative Aptamer-based platform technology developed by McMaster University, Zentek is pioneering advances in both diagnostic and therapeutic applications, underscoring its dedication to healthcare innovation. The company has made notable breakthroughs in COVID-19 therapeutics with its [C19HBA aptamer](#), showing significant promise in preclinical trials by outperforming leading monoclonal antibodies. This success has paved the way for Phase 1 clinical trials for COVID-19 and exploration into other areas such as oncology, immunology, and neurology.

Fenton highlighted the positive reception from major pharmaceutical companies, reflecting a broad industry interest in Zentek's aptamer technology. Additionally, Zentek's ZenGUARD™ technology platform, known for its 99-percent anti-microbial activity, has been instrumental in enhancing the bacterial and viral filtration efficiency of surgical masks and HVAC systems. A [recent study](#) on ZenGUARD™ Enhanced Air Filters revealed its potential to offer significant energy, emission, and cost savings for commercial buildings, showcasing a scalable solution for improving indoor air quality and addressing climate change.

Throughout the conversation, Fenton articulated Zentek's

ambitious plans for partnerships and expansion, leveraging the favorable market conditions to boost the company's visibility and impact. His vision for Zentek includes strategic partnerships, leveraging its proprietary technology, and a commitment to revolutionizing the approach to managing infectious diseases and enhancing environmental sustainability.

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

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About Zentek Ltd.

Zentek is an ISO 13485:2016 certified intellectual property technology company focused on the research, development and commercialization of novel products seeking to give the Company's commercial partners a competitive advantage by making their products better, safer, and greener.

Zentek's patented technology platform ZenGUARD™, 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 (heating, ventilation, and air conditioning) systems. Zentek's ZenGUARD™ production facility is located in Guelph, Ontario.

Zentek, through its wholly-owned subsidiary Triera Biosciences Ltd., has a global exclusive license to the Aptamer-based platform technology developed by McMaster University, which is being jointly developed by Zentek and McMaster for both the diagnostic and therapeutic markets.

The Company is not making any express or implied claims that its aptamer technology has the ability to eliminate, cure or contain COVID-19 (or the SARS-CoV-2 coronavirus) at this time.

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

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

written by InvestorNews | February 21, 2024

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 ZenARMOR is potentially a major breakthrough in the US\$23.8B+ Global Anti-Corrosion Coatings Market

written by InvestorNews | February 21, 2024

The anti-corrosion coatings market may not sound very glamorous, but it is a multi-billion dollar business. According to Vantage Market Research, the global anti-corrosion coatings market was valued at [US\\$23.8 billion in 2021](#) and is forecast to grow to \$43.2 billion by 2028. Zentek quoted from a 2012 U.S. Congressional Briefing that “corrosion-related costs amounted to US\$452 billion per year in the US, including US\$22 billion for the Department of Defense.” This just highlights the importance of anti-corrosion coatings and the fact the market for coatings can grow much larger over time.

According to a November 2022 [report](#): “The anti-corrosion coating material is widely used in marine industries, oil & gas, automotive, and infrastructure... Additionally, increased

infrastructure investment, particularly in developing and emerging countries, has been a major driver of demand for anticorrosion coatings.”

Canadian graphene technology specialist company [Zentek Ltd.](#) (NASDAQ: ZTEK | TSXV: ZEN) has just [announced](#) that they have developed a novel corrosion protection technology known as [ZenARMOR™](#). The technology is based on graphene oxide and Zentek’s CEO and Director Greg Fenton [stated](#) it is “better than the best existing anti-corrosion systems currently in the marketplace.”

Given that Zentek trades on a market cap of just [C\\$228 million](#), the opportunity to break into a US\$23.8 billion market with a major breakthrough technology could be potentially game-changing for Zentek.

ZenARMOR™

ZenARMOR™ is a graphene oxide additive that can be added to existing paint and applied to surfaces to help prevent corrosion. Initial testing results on ZenARMOR™ showed [no signs of corrosion even after 1,500 hours](#) of salt spray testing. The best systems on the market start breaking down at 1,000 hours. Zentek spent 2 years developing ZenARMOR™ and it has been third-party validated. Greg Fenton commented (video here) that he sees ZenARMOR™ as a “potentially game-changing technology”.

The next steps will be further testing by potential end users over the next 6-9 months, if successful, it is to be followed with the commercialization of ZenARMOR™. If Zentek gets to the stage of selling the product, the Company believes it can ramp up supply to meet demand.

In the February 8, 2023 announcement, Zentek [stated](#):

“The Company also reports that the ZenARMOR™ corrosion protection self-healing coating was submitted to the Innovative Solutions Canada (ISC) testing stream – Military Call for Prototypes. The Company is pleased to announce that it has been advised that ZenARMOR™ has met the mandatory and technical evaluation criteria of the Military Call for Prototypes, Military Component, and is considered conditionally qualified, pending further steps such as matching our innovation with a Government of Canada Organization (GCO) interested in testing ZenARMOR™.”

ZenGUARD™

In further breaking news, Zentek’s Heating, Ventilation, and Air Conditioning (“HVAC”) filtration product ZenGUARD™ has performed well in Stage 2 testing. ZenGUARD™ is a graphene-based coating that can be used to upgrade existing HVAC filters. Zentek [announced](#) on February 7, 2023 that “ZenGUARD™-treated MERV 8 filters achieved 34.56% filtration efficiency of the Phi6 virus, a surrogate for COVID-19 during a single air exchange. This compares to 7.24% for uncoated MERV 8 filters, a 27.32% net improvement.”

Zentek CEO, Greg Fenton, [stated](#): “The ZenGUARD™ technology is a simple and practical way to improve one of the biggest problems facing workspaces, planes, trains, buses, and other indoor spaces: indoor air quality.....we believe our patented ZenGUARD™ technology has the potential to not only protect people’s health by removing more pathogens from the air we breathe, but to do so in a way that reduces financial burden and environmental footprint.”

More details [here](#) in a CEO video discussing ZenGUARD™.

Zentek’s Guelph manufacturing center is one of the world’s

largest graphene-based production facilities (produces the graphene oxide for coatings for ZenARMOR™ and ZenGUARD™)



Source: [Zentek website](#)

Closing remarks

Zentek continues to innovate at a rapid pace with all types of graphene-related products. Commercialization is underway with their revolutionary ZenGUARD™ being used in [face masks which remove 98.9% more bacteria and 97.8% more virus](#) compared to standard surgical masks. Zentek is also developing numerous other graphene-based products such as [icephobics](#) (help prevent ice buildup), [fuel additives](#) (to reduce carbon emissions), and [fire-retardant coatings](#) just to name a few. Graphene is a revolutionary product and Zentek is at the cutting edge of developing and commercializing numerous uses for graphene-based products.

InvestorIntel will continue to keep investors up to date with Zentek's amazing progress in what promises to be another potentially superb year for the company.

**Greg Fenton on ZenARMOR,
Zentek's novel corrosion**

protection technology

written by InvestorNews | February 21, 2024

In this InvestorIntel interview, Tracy Weslosky talks to [Zentek Ltd.](#)'s (NASDAQ: ZTEK | TSXV: ZEN) CEO and Director Greg Fenton about their novel corrosion protection technology: [ZenARMOR™](#). As a technology based on graphene oxide, Greg explains how ZenARMOR™ has shown performance that is “better than the best existing anti-corrosion systems currently in the marketplace.”

Speaking about the potential environmental benefits of ZenARMOR™, Greg discusses how the initial results on ZenARMOR™ showed no signs of corrosion even after 1,500 hours of salt spray testing. With corrosion-related costs amounting to upwards of US\$ 450 billion per year in the US alone, Greg explains how ZenARMOR™ may find application in naval and marine infrastructure, bridges, buildings, pipelines, and many other industries.

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

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About Zentek Ltd.

Zentek is an IP development and commercialization company focused on the research, development and commercialization of novel products using graphene and nanomaterials for use in the healthcare industry and beyond.

Zentek's patented ZenGUARD™ coating is shown to have 99% antimicrobial 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, Ontario.

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

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interview, please contact us at +1 416 792 8228 and/or email us direct at info@investorintel.com.

Greg Fenton on the ZenGUARD™ technology patent and how HVAC filter testing results mean better air for everyone

written by InvestorNews | February 21, 2024

In this InvestorIntel interview, Tracy Weslosky has [Zentek Ltd.](#)'s (NASDAQ: ZTEK | TSXV: ZEN) CEO and Director Greg Fenton discuss Zentek's recent [news release](#) on the ZenGUARD™ technology patent being granted. As an antimicrobial coating used on personal protective equipment (PPE) and heating, ventilation, and air conditioning (HVAC) applications, Greg explains how they took ZenGUARD™ from a concept in the lab to an Intellectual Property that can be commercialized.

Greg goes on to provide an update on the successful completion of [Phase 2 HVAC filter testing](#) of the ZenGUARD™ coating by the National Research Council of Canada. As an economical solution to significantly reduce airborne pathogens and improve indoor air quality, Greg discusses how ZenGUARD™ coating can be applied to HVAC filters without any modification to existing HVAC systems.

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

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About Zentek Ltd.

Zentek is an IP development and commercialization company focused on the research, development and commercialization of novel products using graphene and nanomaterials for use in the healthcare industry and beyond.

Zentek's patented ZenGUARD™ coating is shown to have 99% antimicrobial activity, including against COVID-19, for use in PPE and potentially HVAC systems and other industries. Zentek's ZenGUARD™ production facility is located in Guelph, Ontario.

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 | February 21, 2024

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](https://www.zentek.com/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.

How NASDAQ listed Zentek is a 'wow' company with enormous

potential to tap into several multi-billion dollar industries.

written by InvestorNews | February 21, 2024

Every once in a while investors will come across a 'wow' company. This is a company that just wows you with their performance and their stock price.

For me the 'wow' company of the last year is [Zentek Ltd.](#) (NASDAQ: ZTEK | TSXV: ZEN). Just take a look at the stock chart below, showing the stock rising a staggering 9.7x over the past approximately year and a half. The good news for investors is that the recent pullback allows for a better entry price than when the stock peaked at C\$6.50.

Zentek Ltd (TSXV: ZEN) 5 year stock price chart



Source: [Yahoo Finance](#)

Today I give a brief summary of Zentek for new investors and an update on their progress in 2022.

Zentek's business summary

Zentek [describe](#) themselves as "an IP development and commercialization company focused on next-gen healthcare solutions in the areas of prevention, detection and treatment." I prefer to think of them as a nanotechnology and graphene company (they were formerly known as ZEN Graphene Solutions) that has expanded into multiple areas of commercialization; particularly into the healthcare sector with a product for

prevention, detection and treatment of numerous pathogens.

Areas/products of commercialization for Zentek include:

- **ZenGUARD™** – A patent-pending ‘graphene-silver coating’ shown to have 99% antimicrobial activity, including against COVID-19. The coating can be used for PPE applications (including nitrile gloves, gowns, footwear coverings and surgical caps) and also in air purifiers. According to Zentek: “ZenGUARD™-coated masks removed 98.9% more bacteria and 97.8% more virus compared to a typical ASTM Level 3, 3-ply uncoated, resulting in over 99.99% BFE and VFE ratings.” ZenGUARD™ has Health Canada approval (Medical Device Establishment License, “MDEL”) and production facilities are being readied for first orders. Zentek is commercializing ZENGuard™ with mask manufacturer Trebor Rx, but can also work with other manufacturers.
- **Pathogen Detection Technology** (aptamer-enabled) – A low cost, rapid, saliva testing, scalable technology to detect numerous pathogens, initially to be used for COVID-19 testing.
- **Antimicrobial therapies** – In-vitro testing shows 99.9% effectiveness against bacteria, fungi and viruses.
- **Air conditioner filter coating** – Zentek has experimented with past partners to use graphene oxide coated filters to help remove moisture from the air and make air conditioners up to 75% more energy efficient.
- **Icephobic graphene coatings** – Potential to significantly increase safety for vehicles such as drones, aircraft, ocean vessels, wind turbines, and other applications where, in cold weather climates, there is the potential for ice to accrete on surfaces. An ‘icephobic’ surface repels ice build up.

- **Others** – Graphene tires, graphene in concrete, [fuel additives](#) (potential to reduce GHG emissions from diesel and bio-diesel fuels by as much as 10%), and graphene for batteries.

Zentek's latest news and progress in 2022

Zentek announced on [February 18, 2022](#) the development of graphene-wrapped silicon anodes. Zentek CEO Greg Fenton [stated](#): “Not only were the researchers able to demonstrate good performance with laboratory-scale half-cells, the performance was also validated with commercial lithium iron phosphate cathodes suggesting they could be a drop-in solution for enhancing already available battery technologies. We look forward to continuing our support of their research and development to potentially bring this technology to market. The company has begun discussions with a potential industry partner.”

As [reported](#) on February 28, 2022, Zentek's Guelph production facility is now fully licensed and permitted for ZenGUARD™ production and substantially all equipment has been received to ramp-up industrial scale capacity. First orders have been received and the ZenGUARD™ international patent is due shortly. As [reported](#) on January 13, Zentek has entered into a binding letter of intent with GMAF Circular Medico ApS to produce and sell ZENGuard™-enhanced GMAF trademarked recyclable surgical masks.

With regards to the Pathogen Detection Technology, Zentek [continues to work to bring the product to market](#) as soon as practicable, which will require having a working prototype prepared, having conducted baseline studies, and having made applications to regulatory bodies.

With regards to Zentek's icephobic coatings, they are currently

[undergoing full flight trials](#) on a specially equipped research aircraft under real world ice-forming weather conditions.

Zentek's new manufacturing facility in Guelph, Ontario, Canada is set for commissioning shortly



Source: [Zentek website](#)

Closing remarks

Zentek really is a 'wow' company with enormous potential to tap into several multi-billion dollar industries. Focusing on pathogens (viruses, bacteria, fungi) prevention, detection, and treatment is simply staggering. Then there are multiple other applications for Zentek's products, the most recent being graphene-wrapped silicon anodes that can potentially be used to create better EV batteries and the icephobic coatings opportunity.

In terms of commercialization, Zentek is already advancing with ZenGUARD™ in terms of a production facility and orders, with the ZenGUARD™ patent due very soon and production from Zentek's new Guelph facility set to begin very soon.

Finally, Zentek is now getting the exposure it deserves with [a NASDAQ listing](#) that began on March 22, 2022, under the ticker "ZTEK". Not surprisingly the stock [rose 25.93%](#) on March 23.

Zentek has [C\\$32 million](#) in cash, no debt, and looks like being a 'wow' company again in 2022. Stay tuned.

Disclosure: The author is long Zentek (TSXV: ZEN).

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 | February 21, 2024

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 Zen**GUARD**[™], 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.

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

written by InvestorNews | February 21, 2024

In a recent InvestorIntel interview, Tracy Weslosky spoke with Greg Fenton, CEO and Director of [Zentek Ltd.](https://www.zentek.com) (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.

Zentek is a nanotechnology company developing and commercializing next-gen healthcare solutions in the areas of prevention, detection and treatment. Zentek is currently focused on commercializing **ZENGuard™**, a patent-pending coating with 99% antimicrobial activity, including against COVID-19, and the potential to use similar coatings as pharmaceutical products against infectious diseases. The company also has an exclusive agreement to be the global commercializing partner for a newly developed, highly scalable, aptamer-based, rapid pathogen detection technology.

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

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If you have any questions surrounding the content of this interview, please email info@investorintel.com.

Moving forward with Trebor on their 100M mask agreement, ZEN achieves positive initial phase 2 cytotoxicity results

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[ZEN Graphene Solutions Ltd.](#) (TSXV: ZEN) ('ZEN') continues to innovate and rapidly progress. Initially a graphite junior, then a graphene producer, then a co-producer of graphene-silver materials for COVID-19 protection (masks, gloves etc), and now a potential graphene-based biocidal product developer. It has been an incredible past 9 months for ZEN Graphene Solutions as shown on the chart below. The upward move started after mid-2020 and after ZEN gained a Letter of Intent (LOI) for their [COVID-19 virucidal graphene-based composite ink](#) for face masks and other protective clothing. It is not at all surprising that ZEN was [recently named](#) in the TSX Venture top 50.

Below I take a look at the latest developments with this most exciting company.

ZEN Graphene Solutions stock price has surged on the back of tremendous company news and progress the past 9 months



[Source](#)

ZEN [describes themselves](#) as:

“A next gen nanomaterials company developing graphene-based technology that helps protect people, the environment and makes existing products better. ZEN is currently focused on

commercializing a **patent-pending graphene-based coating with 99% biocidal activity, including against COVID-19** and the potential to use this graphene compound as a **pharmaceutical product against infectious disease.**“

Dr. Francis Dubé, ZEN Executive Chairman, [stated](#):

“The company continues to make positive progress towards our patent-pending, biocidal compound being considered as a pharmaceutical agent. Health safety evaluation in preclinical models is the most important consideration at this stage – and with the high dose (1,000 mg/kg) in this study being 20,000 times higher than the Minimum Inhibitory Concentration from the Mount Sinai study – we are incredibly encouraged. We will continue to move this new potential therapeutic towards Phase 1 human trials as quickly as possible pending the final report from Nucro-Technics.”

A translation of the above is that thus far ZEN’s graphene based graphene-silver product is proving to be extremely safe, but there is still a way to go. We already know from previous studies that the product is [99.9% effective](#) against aerobic bacteria (gram-positive and gram-negative), fungal and viral activity, including COVID-19.

Greg Fenton, ZEN CEO, [commented](#):

“This broad-spectrum compound is a novel solution that could have an impact on infectious disease management. It has the potential to act as a targeted treatment for multi-drug resistant organisms (MDR) as well. As in previously released results on the effectiveness of a similar compound against COVID-19, this graphene-based treatment could be against viral infections. We will be exploring its use not only in the fight against the current global pandemic, but also against numerous other pathogens....Based on this breakthrough and an urgent need

for such treatments, we will seek immediate collaborations with potential pharmaceutical partners to optimize the delivery mechanisms to target infections in general and especially those common in the respiratory tract.”

ZEN’s graphene products have enormous potential applications from fighting pathogens to air and water filtration to better batteries and many more



Source: [ZEN’s corporate presentation](#)

ZEN’s latest successes

- Jan. 13, 2021 – ZEN [reported](#) positive news on the use of their graphene-silver coating for masks. Filter material flow rates and pressure drop were not affected by the application of the coating and treated mask material achieved excellent dispersion and coverage. ZEN stated: “Both findings help validate that ZEN’s coating does not inhibit breathability in polypropylene mask material or flow rates in air filtration media.” This is another significant step towards successful adoption and commercialization of ZEN’s graphene-silver coating. Recall that ZEN previously announced a contract in Canada to supply their graphene-silver coating to TreborRx (‘Trebor’) for [100 million masks.](#)
- Jan. 18, 2021 – ZEN’s [announced](#) that they had reached an agreement with Trebor for the application of their coating on nitrile gloves sourced or produced by Trebor. ZEN will provide Trebor with a distribution agreement for Canada, the USA and Mexico (Territory). Trebor agrees to use the coating on all gloves sold and will pay ZEN a royalty per glove coated, with a minimum first year guarantee of 100 million gloves. George Irwin, Trebor CEO, [commented](#), “We

are excited to bring another game changer to the PPE Industry. We believe Zen's biocidal coating on gloves gives front line responders and health care associates in all medical and non-medical situations additional protection for both the patient and health care worker. This coating can be used on gloves in food processing and agriculture as well. Trebor and Zen have a unique relationship with the goal of making safer PPE. Trebor looks forward to supplying the biocidal gloves within the 1st half of 2021."

Next steps for ZEN

ZEN's engineering company will design and source the equipment for the production of the proprietary graphene-silver formula on an industrial scale. The equipment will be assembled and installed in ZEN's new industrial facility in Guelph, Ontario. We will also need to wait to see what happens with Trebor's application for an amendment to Health Canada to include ZEN's coating on their already approved masks. There will also be further results and trials for ZEN's biocidal product for human use.

Closing remarks

ZEN Graphene Solutions currently has a market cap of C\$242 million. The Company has had a stunning past year and management is to be congratulated. Further upside remains should they achieve commercialization success in either of their current main projects (graphene-silver coating for personal protective equipment and successful trials and approval of their biocidal agent).

This is an amazing story from an amazing company. Stay tuned in 2021.

- [Dr Dube & Greg Fenton on ZEN's potential graphene-based antibiotic, antiviral & antifungal compound \(video\)](#)

Disclosure: *The author is long ZEN Graphene Solutions (TSXV: ZEN)*