

Jon Gluckman of Sixth Wave Innovations Discusses Its Lithium and Gold Extraction Technology

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In this InvestorIntel interview during PDAC 2023, Tracy Weslosky talks to [Sixth Wave Innovations Inc.](#)'s (CSE: SIXW | OTCQB: SIXWF) CEO, President, and Director, Dr. Jon Gluckman about how Sixth Wave's lithium extraction technology offers "phenomenal ESG improvements for hard rock lithium mining." In addition to recently simplifying its process flow sheet and significantly lowering energy usage, Dr. Gluckman discusses how their technology uses safer and greener reagents to produce battery-grade lithium carbonate.

Providing an update on Sixth Wave's IXOS® gold extraction technology, Dr. Gluckman discusses how their technology offers a superior replacement for activated carbon used in the gold mining industry. Speaking about the success achieved with their gold extraction technology, Dr. Gluckman explains how their technology can help gold mines reduce their all-in-sustaining-cost (AISC) by as much as US\$100-200 per ounce.

Sixth Wave is in negotiations with multiple lithium properties and several gold mines to use its processing technology as well as moving ahead with several projects in non-mining sectors as well.

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About Sixth Wave Innovations Inc.

Sixth Wave is a nanotechnology company with patented technologies that focus on the extraction and detection of target substances at the molecular level using highly specialized molecularly imprinted polymers (MIPs). The Company is in the process of commercializing its IXOS[®] – AuC polymer for the gold mining industry is focused on expanding the offerings as noted here in lithium. The Company's patent portfolio covers extensions of the designs for extraction and purification of other critical metals including nickel, cobalt, rare earth elements, and platinum group metals.

Sixth Wave can design, develop and commercialize MIP solutions across a broad spectrum of industries. The company has successfully developed nanotechnology architectures that are highly relevant for the detection and separation of viruses, bacteria, biogenic amines, and other pathogens. The Company is finishing commercialization of its Affinity™ system for purification of cannabinoids. The Company is actively looking for licensing opportunities to monetize these assets as it focuses on the mining and critical metals industry.

To learn more about Sixth Wave Innovations Inc., [click here](#)

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If you have any questions surrounding the content of this interview, please contact us at +1 416 792 8228 and/or email us direct at info@investorintel.com.

Sixth Wave hits the market with MIP coatings and sensors for the biodetection of viruses and bacteria

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[Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: SIXWF) (“Sixth Wave”) is a nanotechnology company focused on the ‘detection and extraction’ of target substances at the molecular level using specialized molecularly imprinted polymers (MIPs).

Sixth Wave’s nanotechnology uses MIPs to detect and extract almost any target molecule



Source: [Sixth Wave Innovation website – About MIPs](#)

There is a huge list of potential industries that can benefit from Sixth Wave’s MIP technology; however key areas of interest for now for Sixth Wave are health (rapid COVID-19 detection), cannabis production (cannabinoid purification), security, gold and lithium extraction.

AMIP COVID-19 test with improved sensitivity

[Announced](#) on August 19, 2021, Sixth Wave has improved the sensitivity and capability of its leading-edge nanotechnology AMIP to detect the presence of the COVID-19 virus at levels below 1,000,000 virus particles/mL. Dr. Garrett Kraft, Vice President of Innovation at Sixth Wave, [stated](#): “Hitting this level of detection is a huge achievement for us. With this technical milestone, we are fulfilling the sensitivity

requirements for many of our intended end-use applications for high throughput screening.”

Note: Accelerated Molecular Imprinted Polymers (AMIPs) are rapid acting MIPs.

The clinical significance of a more sensitive test is the potential to detect COVID-19 earlier and in patients that are asymptomatic, when lower levels of the virus may be present. According to Grandview Research, the global COVID-19 diagnostics market size was estimated at [USD 84.4 billion](#).

Sixth Wave is quickly moving through a program of development and scale-up milestones toward a wide range of AMIPs virus rapid detection devices.

MIP coatings and sensors for biodetection of viruses and bacteria

Sixth Wave recently [announced](#) that they have filed for a patent for their MIP coatings and sensors for biodetection. The patent focuses on the synthesis and processing of MIPs containing detection elements for viruses and bacteria. Sixth Wave [state](#): “The patent will be solely in the name of Sixth Wave, who will have exclusive ownership of the IP, subject to a reasonably agreed-upon license fee. The work with York University is an expansion of Sixth Wave’s efforts with the AMIP product line and focuses on detecting both viral and bacterial-based pathogens in fluid samples.”

This could potentially be a huge business one day for Sixth Wave given the global need for rapid detection of viruses and bacteria.

More about Sixth Wave

Sixth Wave has collaborated for research and testing with some

of the largest entities in the chemical, resources, education, security, defense and medical sectors. Sixth Wave's systems are all patented or patent pending in 40+ countries worldwide.

Sixth Wave's key product names are IXOS® (a line of extraction polymers for the gold mining industry), Affinity™ (for the cannabis industry), and AMIPs (for sensitive and rapid COVID-19 testing). Sixth Wave recently [announced](#) an Affinity system has been shipped from the contract manufacturer and is on the way to Sixth Wave and then onto the first customer, Green Envy Extracts.

Other prospective products in development include a wide range of AMIPs Virus/Bacteria rapid detection devices, Personal Protective Equipment applications such as SIXW's Smart Mask™ (see news dated [May 15, 2020](#)), and smart clothing, airborne sensors, breathalyzers, ELISA-based technologies, cartridge/lateral flow designs, and others.

Closing remarks

Sixth Wave is at an exciting stage as the Company rolls out the commercialization of its Affinity™ cannabinoid purification system, IXOS® gold mining extraction technology, and soon plans the rollout of their AMIPs virus rapid detection devices and other products.

The idea of one day being able to potentially use a Sixth Wave MIP sensor to rapidly detect viruses and bacteria pathogens is quite amazing, and if it happens, would be a significant advancement for medical diagnosis.

Trading on a market cap of just C\$30 million, stay tuned for more developments from this fast-moving company.

Tremendous technologies all based around Molecular Imprinted Polymers have investors riding the Sixth Wave

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Sixth Wave continues to achieve outstanding results at detecting COVID-19 as well as the extraction of cannabinoids, gold & lithium

Innovative methods of detecting and extracting key target materials, such as valuable minerals or even harmful viruses, is a new forefront of nanotechnology.

Today's company is [Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: SIXWF) ("Sixth Wave"). Sixth Wave is a nanotechnology company that was established in 2013 and has worked on developing commercial products for military and mining applications. For example, SAFE-T® is a legacy product developed for the US Military for explosives detection, developed with internal resources and R&D funds under multiple contracts with the US Army's Combat Capabilities Development Command Armaments Center (ARDEC) and sold to elements of the US Department of Defense and allied forces.

Since that time Sixth Wave has matured the technology and the applications. Today Sixth Wave's technology has applications across multiple sectors such as mining, medical, defense, and life sciences. Sixth Wave's 3 key products are:

- Accelerated Molecular Imprinted Polymers (AMIPs) – For rapid detection of viruses
- Affinity – For cannabinoid extraction
- IX0S – For gold extraction



[Source](#)

Sixth Wave uses patented Molecular Imprinted Polymers (MIPs) for imprinting, capturing, and releasing substances at the molecular level.

MIPs use polymer synthesis techniques to create smart materials with high affinity for a target



Source: [Sixth Wave Innovation website – About MIPs](#)

The MIP technology can detect and/or extract any number of substances as widespread as the COVID-19 virus, cannabinoids, gold, or lithium.

Detection of viruses

Sixth Wave's Accelerated Molecular Imprinted Polymers (AMIPs) is a Rapid Virus Test for the selective identification of Covid-19 that can give easy-to-read results within minutes. AMIPs will allow for high volume, point-of-use screening in public sector, private industry, hospitals, long-term healthcare facilities, and various forms of public transportation.

On June 10, 2021, Sixth Wave [announced](#) a breakthrough that they had successfully detected the UK and South African Variants of SARS-CoV-2, using two independent techniques: a color-based sensor and independently verified on a Quartz Crystal Microbalance (QCM) based AMIP sensor.

The announcement [stated](#): “The flexibility and robustness of the AMIPs platform was demonstrated again. These preliminary results give evidence to the claims that AMIP technology is resistant to loss of efficacy due to virus mutation and new variants. By imprinting and detecting the whole virus AMIPs can be highly resistant to virus mutation.”

Purification and extraction of cannabinoids in cannabis

For cannabis producers, Affinity™ streamlines the traditional processing of THC & CBD. Affinity™ uses MIPs designed to capture and extract cannabinoids to ensure the purest end product and the highest yield.

Sixth Wave recently [announced](#) they had commissioned delivery of its first Affinity™ System. It is estimated that the system will be ready for wet testing at AESI in late September and ready for shipment to the Sixth Wave’s proving laboratory in Maryland shortly thereafter.

Sixth Wave plans to deliver [the first commercial Affinity™ System](#) to Oregon-based Green Envy Extracts in Q4, 2021.

Extraction of gold from tailings

Sixth Wave has developed a revolutionary gold-processing system designed for the mining industry. IXOS® is a faster, cleaner and a more cost-effective method of processing and extracting gold with a higher and purer end product than traditional activated carbon processing.

[Announced](#) on May 18, 2021, Sixth Wave executed a non-binding LOI to test Sixth Wave's patented IXOS® purification and extraction polymer on gold bearing tailings samples from the Barry-Hollinger Gold Mine (BHGM) in Eastern Ontario. The news release [stated](#): "It is estimated there are approximately 200,000 tons of tailings on the property which have been indicated to contain up to 16,000 ounces of gold....Sixth Wave will perform a combination of leaching and recovery tests, expected to start in June 2021, baring COVID-19 restrictions. The tailings test protocol could form the foundation for a business model that seeks to identify and recover gold from tailings at other mine sites in the Ontario mining district and throughout the world."

The global implications are enormous given the massive global tailings available from not just gold mines, but other valuable metals.

Extraction of lithium from brines such as in the Salton Sea area of California

Earlier in 2021, Sixth Wave [acquired 100% of Geolithic Corp.](#) (a JV between TriLateral and Sixth Wave). Geolithic was established in 2017 to work on the extraction of lithium from geothermal brines located primarily in the Salton Sea area of California, potentially a huge lithium resource. This has become an important area of interest as it may help the USA and others to be able to extract vast quantities of lithium, which will be needed for this decade's electric vehicle and energy storage boom.

Final remarks

Sixth Wave has several tremendous technologies all based around its Molecular Imprinted Polymers (MIPs), which can both detect and extract specific target substances.

Key areas of commercialization that are at the beginning are COVID-19 detection, cannabinoids extraction, gold from tailings extraction, and direct lithium extraction. All of these have enormous potential, as well as the potential to expand into related areas.

Sixth Wave Innovation trades on a market cap of just C\$27 million and, in my view, is one of the most exciting listed junior companies on the market today. Be sure to take a deeper look at Sixth Wave.

Sixth Wave Innovations Dr Jon Gluckman on the colorimetric detection of SARS-CoV-2

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In a recent InvestorIntel interview, Tracy Weslosky spoke with Dr. Jon Gluckman, President, CEO and Founder of [Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: ATURF) about the successful demonstration of [colorimetric detection of SARS-CoV-2](#), the virus that causes COVID-19 utilizing Sixth Wave's Accelerated Molecular Imprinted Polymers ("**AMIPs**[™]") technology.

In this InvestorIntel interview, which may also be viewed on YouTube ([click here to subscribe to the InvestorIntel Channel](#)), Dr. Gluckman went on to say that colorimetric detection is a method of identifying the presence of a target substance within a test sample by means of a color reagent. He added that the Company is evaluating the detection capabilities of the

technology for all the active strains of SARS-CoV-2. Dr. Gluckman also provided an update on Sixth Wave's letter of intent with Halucenex Life Sciences Inc. to explore [a collaboration](#) for the separation of compounds such as psilocybin, baeocystin, and others using molecularly imprinted polymers.

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

About Sixth Wave Innovations Inc.

Sixth Wave is a nanotechnology company with patented technologies that focus on extraction and detection of target substances at the molecular level using highly specialized Molecularly Imprinted Polymers (MIPs). The Company is in the process of a commercial rollout of its Affinity™ cannabinoid purification system, as well as, IXOS®, a line of extraction polymers for the gold mining industry. The Company is in the development stages of a rapid diagnostic test for viruses under the Accelerated MIPs (AMIPs™) label.

Sixth Wave can design, develop and commercialize MIP solutions across a broad spectrum of industries. The company is focused on nanotechnology architectures that are highly relevant for the detection and separation of viruses, biogenic amines, and other pathogens, for which the Company has products at various stages of development.

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Will Sixth Wave help prevent a fourth wave?

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[Sixth Wave Innovations Inc.](#) (CSE: SIXW | OTCQB: ATURF) is a nanotechnology company focused on extraction and detection of target substances at the molecular level. Their products can be very cost effective and potentially eliminate human error from the testing or measurement process. These advantages are derived from the application of patented technologies in the highly specialized field of [molecularly imprinted polymers](#) (MIPs).

Sounds pretty technical so what does that mean to you and me? As we battle a third wave of COVID-19 we are crossing our fingers and hoping vaccines will save the day. Especially given, that for all the talk about rapid testing, we have yet to see an effective, accurate test used in a broad setting to help identify or track the spread of the SARS-CoV-2 virus. And who knows if all the variants that are popping up will continue to be effectively subdued by existing vaccines.

Enter Sixth Wave and their patent pending Accelerated Molecular Imprinted Polymers (AMIPs™) technology. Last week the company [announced](#) it has successfully demonstrated colorimetric detection of SARS-CoV-2. Colorimetric detection is a method of identifying the presence of a target substance within a test sample by means of color. For example, Green = COVID-19, Blue = Influenza, Red = Rhinovirus. And yes, the test could potentially identify multiple viruses in a single pass with different colors for each. Even better, the AMIPs™ test does not require the use of biological materials which have the potential to result in errors (false positive or false negative). As well, the methodology utilized by AMIPs™ should be more robust in its

ability to detect variants because the mechanism used to capture and immobilize the virus is not keyed to a specific Antigen-Antibody relationship. Lastly, this robust, reliable product should result in a lower cost, either to an individual requiring a test or a government trying to get a handle on this annoyingly resilient virus.

Imagine kids going back to school and they all have a mask utilizing Sixth Wave technology. All you need to do is check each student's mask and if it's green the child gets sent home otherwise they are good to go until the next day. Now what if everyone had a mask, or some other device with AMIPs™ technology, then everyone could get back to going to sporting events, concerts or weddings. Even air travel and cruise ships would be able to operate relatively seamlessly based on the individual not being green, so to speak. This could be the solution that gets us back to a semblance of normal.

Unfortunately, as good as this all sounds, Sixth Wave isn't the answer to all our problems just yet. Next steps include building on this initial validation toward the development of a colorimetric sensor for a potentially wide range of rapid Virus detection devices using AMIPs™. As well, the Company is proposing to create a comprehensive library of molecular imprints for other viral pathogens and variants. This AMIP library will be capable of being licensed for all manner of rapid detection test (RDT) devices and wearables, such as a smart mask, smart clothing and PPE applications, airborne sensors, Breathalyzers, and others. The groundwork has been laid but it remains to be seen if the company can capitalize on its efforts.

Nevertheless, the company has its Affinity™ System which uses MIPs to deliver an innovative purification solution to the cannabis market. First revenue from cannabinoid extraction is

expected in Q1/21. As well there is the IXOS product, a line of extraction polymers formulated for deployment in the gold mining industry for the extraction of gold from cyanide leach solutions. Sixth Wave is undertaking pilot plant testing of IXOS technology at a major gold producer (Kinross Gold Corporation). The company recently [raised \\$6M via a private placement](#) which should give them enough cash to continue developing and innovating its product base for another 6 months, give or take. It will be interesting to see if the company can start generating revenue to reduce the cash burn and advance all these exciting prospects.