Sixth Wave Innovations Announces Collaborative "Green" Test Initiatives with Mining and Process Solutions (Australia)

written by Raj Shah | September 18, 2020

September 17, 2020 (Source) – **Sixth Wave Innovations Inc. (CSE: SIXW) (OTCQB: ATURF) (FSE: AHUH) (the "Company" or "Sixth Wave")** is pleased to announce that it is working with Mining and Process Solutions ("**MPS")** on test work initiatives in North America and Australia that are utilizing Sixth Wave's commercially available IXOS® molecular imprinted polymer for gold extraction and the MPS GlyCat™ process. The GlyCat™ process was invented to reduce cyanide consumption while maintaining gold recovery for gold ores from deposits which contain nuisance copper.

The two companies are also working in collaboration with the Centre Technologique des Résidus Industriels ("**CTRI**"), and a major top 10 gold producer in Canada. The project aims to develop an environmentally friendly flow sheet for the gold mining industry. It will examine MPS' acidic and alkaline leaching technologies together with Sixth Wave's molecular imprinted IXOS® resin technology for the extraction of gold from alternative lixiviants. Testing is to be undertaken on ores provided by the Canadian mining partner.

A recent study published in the *Hydrometallurgy Journal* titled (Gold recovery from cyanide-starved glycine

solutions (Glycat™) in the presence of Cu using molecularly imprinted polymer IXOS®-AuC) found that “gold recovery increased, while copper recovery decreased with the increasing gold concentration.’ The adsorption behavior of IXOS® -AuC had “the best selectivity compared to three other gold selective resins”. Other outcomes from the study showed that the IXOS®-AuC polymer was very robust allowing reuse without deterioration of the polymer physically (assessed by scanning electron microscopy) or in performance.

“Our collaboration with MPS is an important initiative for Sixth Wave and our IXOS® high performance gold extraction products,” said Dr. Jon Gluckman, President & CEO of Sixth Wave. “The industry is keenly interested in new and innovative approaches to leach and recover gold as a replacement, in whole or in part, for conventional processes. In order to focus on lowering CAPEX and OPEX, and to comply with environmental and regulatory constraints, Sixth Wave is extremely interested in leveraging our technology with the benefits of the MPS glycine leaching and recovery process.”

“We are very pleased to be in collaboration with Sixth Wave,” states Mr. Ivor Bryan, Managing Director of MPS. “Our respective technological approaches can bring tremendous value to prospective customers by significantly cutting cyanide usage along with the associated costs and environmental impact.”

About IXOS® Technology

The foundation of Sixth Wave’s products for the resource sector is its IXOS® advanced extraction media developed using Molecularly Imprinted Polymers (“**MIPs**“). MIPs contain specifically engineered cavities designed to target and capture molecules of interest, based on molecular geometry and ionic

charge. IXOS® media have the ability to attract target molecules to the exclusion of other undesirable elements.

For gold applications, the IXOS® platform is capable of selectively targeting gold while rejecting contaminants such copper, mercury, and other non-target elements potentially contained in a gold-bearing cyanide leach solution. Non-selectivity is a comparative disadvantage of activated carbon, which tends to recover a variety of undesirable ancillary metals that affect gold process economics and purity.

Test results for extraction of gold from cyanide leach solutions have demonstrated the ability to capture elevated quantities of gold as compared to traditional activated carbon. MIPs nanotechnology can be applied to other target elements in addition to gold, including both inorganic and organic elements that require removal from solution.

About MPS

MPS holds exclusive global rights to the Glycine Leaching process. The company was formed in 2014 as a privately owned and funded company headquartered in Perth, Australia. MPS has 4 international patents pending for Glycine leaching with the first two patents each granted in over 20 countries. MPS is establishing agents and Certified Laboratory Partners globally to allow companies to test their ores for amenability to Glycine. Test Centers in Perth, Santiago, Denver, Toronto, and Quebec City are currently available. MPS was the overall winner of the 2019 Western Australia Innovator of the Year Award and winner of the 2017 Australian Technologies Competition – Mining Sector.

For more information about MPS, please visit www.mpsinnovation.com.au.

About Sixth Wave

Sixth Wave is a nanotechnology company focused on extraction and detection of target substances at the molecular level using its patented technologies in the highly specialized field of molecularly imprinted polymers. Sixth Wave has commercialized IXOS®, a line of extraction polymers for the gold mining industry.

For more information about Sixth Wave, please visit **www.sixthwave.com.**

ON BEHALF OF THE BOARD OF DIRECTORS

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This press release includes certain statements that may be deemed "forward-looking statements" including statements regarding IXOS® system scale-up, performance and commencement of full-scale production. All statements in this release, other than statements of historical facts, that address future events or developments that the Company expects, are forward looking statements. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual events or developments may differ materially from those in forward-looking statements. Such forward-looking statements necessarily involve known and unknown

risks and uncertainties, including the risks that IXOS® system performance may not be maintained at production level, that anticipated cost savings and performance levels relative to competing technologies may not be realized, that other technologies with better performance or costs may be developed by competitors, and other risks detailed in the Company's filing statement available at www.sedar.com, which may cause the Company's actual performance and financial results in future periods to differ materially from any projections of future performance or results expressed or implied by such forward-looking statements.

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