



PyroGenesis Unveils its New NexGen® Plasma Atomization System; Significant Production Advancements for AM Powders

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MONTREAL, March 19, 2019 (GLOBE NEWSWIRE) -- PyroGenesis Canada Inc. (<http://pyrogenesis.com>) (TSX-V: PYR) (OTCQB: PYRNF) (FRA: 8PY), a TSX Venture 50® high-tech company, (the "Company", the "Corporation" or "PyroGenesis") that designs, develops, manufactures and commercializes plasma atomized metal powder, plasma waste-to-energy systems and plasma torch products, today unveils its new NexGen® Plasma Atomization System, which produces metal powder at over 25 kg/h for the Additive Manufacturing ("AM") industry (3D Printing).

On June 8th, 2015, PyroGenesis announced the filing of a provisional patent for a revolutionary plasma atomization powder production process. This process was a significant departure from conventional plasma atomization, and as such we have named it NexGen® Plasma Atomization. The provisional patent targeted higher production rates, narrower particle size distribution ("PSD"), as well as the ability to shift the bulk PSD. This allowed the Company to produce a very targeted powder for the AM industry with little to no waste.

"Plasma atomization is considered the gold standard for the production of AM powder," said Mr. Massimo Dattilo, Vice President of PyroGenesis Additive. "PyroGenesis not only invented the process, but coined the name, which is now widely used in the industry. As the inventor of plasma atomization, and being plasma experts, PyroGenesis is dedicated to continuous improvement. Our NexGen® System, which is now proven, to the best of our knowledge, has shattered all published plasma atomization system production rates."

On March 5th, 2019, PyroGenesis announced the first delivery of specialty reactive powder to a government entity. PyroGenesis' NexGen® Plasma Atomization System was used to produce the powder and represents the first commercial contract to be fulfilled with the NexGen® unit.

"Today's unveiling of the NexGen® System, with production rates in the neighborhood of 25 kg/h, represents a significant achievement not only for ourselves, but for the industry as a whole," said Mr. P. Peter Pascali, President and CEO of PyroGenesis. "These production rates are easily transferable to our titanium offerings. Higher production rates allow PyroGenesis to provide plasma atomized powders at exceedingly competitive price points. This would allow high value materials to be accessible to many new markets, which have up until now found these high value materials, such as titanium, to be too costly. Once again, PyroGenesis is leading the way with its plasma expertise, and this is just the beginning. We fully expect to improve on all aspects of production, including even improving upon these record shattering production rates."

About PyroGenesis Canada Inc.

PyroGenesis Canada Inc., a TSX Venture 50® high-tech company, is the world leader in the design, development, manufacture and commercialization of advanced plasma processes and products. We provide engineering and manufacturing expertise, cutting-edge contract research, as well as turnkey process equipment packages to the defense, metallurgical, mining, advanced materials (including 3D printing), oil & gas, and environmental industries. With a team of experienced engineers, scientists and technicians working out of our Montreal office and our 3,800 m² manufacturing facility, PyroGenesis maintains its competitive advantage by remaining at the forefront of technology development and commercialization. Our core competencies allow PyroGenesis to lead the way in providing innovative plasma torches, plasma waste processes, high-temperature metallurgical processes, and engineering services to the global marketplace. Our operations are ISO 9001:2015 certified, and have been since 1997. PyroGenesis is a publicly-traded Canadian Corporation on the TSX Venture Exchange (Ticker Symbol: PYR) and on the OTCQB Marketplace. For more information, please visit www.pyrogenesis.com.

This press release contains certain forward-looking statements, including, without limitation, statements containing the words "may", "plan", "will", "estimate", "continue", "anticipate", "intend", "expect", "in the process" and other similar expressions which constitute "forward-looking information" within the meaning of applicable securities laws. Forward-looking statements reflect the Corporation's current expectation and assumptions and are subject to a number of risks and uncertainties that could cause actual results to differ materially from those anticipated. These forward-looking statements involve risks and uncertainties including, but not limited to, our expectations regarding the acceptance of our products by the market, our strategy to develop new products and enhance the capabilities of existing products, our strategy with respect to research and development, the impact of competitive products and pricing, new product development, and uncertainties related to the regulatory approval process. Such statements reflect the current views of the Corporation with respect to future events and are subject to certain risks and uncertainties and other risks detailed from time-to-time in the Corporation's ongoing filings with the securities regulatory authorities, which filings can be found at www.sedar.com, or at www.otcmarkets.com. Actual results, events, and performance may differ materially. Readers are cautioned not to place undue reliance on these forward-looking statements. The Corporation undertakes no obligation to publicly update or revise any forward-looking statements either as a result of new information, future events or otherwise, except as required by applicable securities laws. Neither the TSX Venture Exchange, its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) nor the OTCQB accepts responsibility for the adequacy or accuracy of this press release.

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