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Itronics Completes Purchase of Centrifuge That Eliminates Production Bottleneck in Its Hydromet Processes

700 Percent Increase in Hydromet Productivity

RENO, Nev., Dec. 04, 2018 (GLOBE NEWSWIRE) -- Itronics Inc. (OTC:ITRO), a diversified producer of GOLD'n GRO zinc fertilizers and silver products and a green "Zero Waste" technology development Company, today reported that it completed purchase of a centrifuge that will be used in its hydrometallurgical operations to eliminate a silver concentrate production bottleneck.

Dr. John Whitney, Itronics President, said, "This technology is a revolutionary breakthrough in the development of the Company's hydromet processes that dramatically reduces process time and lowers operating costs."

The hydromet (leaching) processes produce the high silver content concentrate used in Itronics breakthrough "Zero Waste" E-scrap refining which then uses the silver to extract gold, silver, palladium, tin, copper and other metals from E-Scrap (computer waste).

"It has been taking about 20 weeks to do the liquid/solid separations for both process steps to produce enough high silver content solids to support a refining campaign to produce a bullion shipment. The centrifuge reduces this production time to less than three weeks, almost seven (7) times faster," Dr. Whitney said.

With the hydromet leaching circuit production bottleneck eliminated, the Company's e-scrap refining operations focus will shift to optimizing output, first by converting the operation from intermittent to continuous, and then by optimizing the refining process, to determine the ultimate furnace capacity. Planning is underway to expand furnace production capacity in tandem with hydromet processing capacity to increase silver bullion production.

The hydromet technology is also expected to lower the operating costs of the KAM-Thio silver/gold mine recovery technology and to make it possible to process zinc bearing flue dusts and other zinc bearing powders to recover all of the zinc and to convert the non-zinc residuals into saleable products. This is expected to lead to the development of at least two more "Zero Waste" technologies.

About Itronics

Headquartered in Reno, Nevada, Itronics Inc. is a "Creative Green Technology" Company which produces GOLD'n GRO specialty liquid fertilizers, silver bullion, and silver-bearing glass. The Company's goal is to achieve profitable green technology driven organic growth in specialty GOLD'n GRO fertilizers, silver, zinc, and minerals. The Company's technologies maximize the recovery and uses of metals and minerals and by doing this maximize sustainability.

Through its subsidiary, Itronics Metallurgical, Inc., Itronics is the only company with a fully permitted "Beneficial Use Photochemical, Silver, and Water Recycling" plant in the United States that converts 100 percent of the spent photoliquids into GOLD'n GRO liquid fertilizers, silver bullion, and silver bearing glass. This is internationally recognized award winning "Zero Waste" Technology. The Company is developing a portfolio of environmentally beneficial "Zero waste" processing and mining technologies. Itronics has received numerous domestic and international awards that recognize its ability to successfully use chemical science and engineering to create and implement new environmentally green recycling and fertilizer technologies.

The Company's environmentally friendly award winning GOLD'n GRO liquid fertilizers, which are extensively used in agriculture, can be used for lawns and houseplants, and are available at the Company's "e-store" on Amazon.Com. Due to expanded retail customer interest, GOLD'n GRO fertilizer may now be purchased in Reno, Nevada at the "Buy Nevada First Gift Shop" at 4001 S. Virginia St.

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