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**February 22 , 2007. GEM Advanced Magnetometers of Richmond Hill, Ontario, Canada is pleased to announce the availability of a new Canada-wide DGPS positioning option and OmniSTAR support for its leading line of ground, airborne and stationary magnetometers.**

The new option, CDGPS / OmniStar, is a nation-wide DGPS service that provides unmatched accuracy and coverage for positioning applications across the country. CDGPS, recognized as a new Canadian standard for DGPS, was developed specifically for the Canadian market. OmniStar provides a cost-base GPS enhancement data via satellite for worldwide coverage.

As noted by Dr. Ivan Hrvoic, President of GEM, "CDGPS / OmniStar option has many advantages over existing wide area correction systems for those seeking effective solutions across Canada and around the World". One example is the high Arctic where GPS coverage has been poor. Our customers will benefit significantly as CDGPS delivers superior correction signal penetration, high accuracy and high resolution differential GPS corrections that are critical to dynamic positioning applications in the earth sciences. And perhaps the best news for our customers is that CDGPS is a free service that can now be accessed easily via our magnetometers.

Having CDGPS / OmniSTAR available during magnetic surveys gives better resolution (0.7 m) than standard Satellite Based Augmentation System (SBAS) that includes the Wide-Area Augmentation System (WAAS), the European Geo-Stationary Navigation System (EGNOS) and the MTSAT Satellite-Based Augmentation System (MSAS). Positioning (1.2 m); up to 20 readings per second with no need for interpolation, and integrated GPS with OmniSTAR (<1.0 m). The new magnetometer option also supports 86 datums and gives superior performance in foliated conditions, 24 x 7 operations with built-in network redundancy; and a high degree of service reliability.

As an integrated technology in GEM magnetometers, the new capability also brings other advantages. For instance, GPS data is available up to 20 times per second so even in the fastest GEM magnetometer (Potassium) running 20 times per second, each reading will have its own time, position and altitude stamp. Position is selectable (either latitude / longitude or UTM) giving GEM, for the first time, UTM availability directly from the GPS receiver. Users also have the built-in ability to select the GPS datum; previously this was only available as an option from GEM. And for users working outside of Canada, reliable data is still ensured through either SBAS or OmniSTAR. For users working with airborne data, GEM is also now offering an aircraft-certified antenna.

GEM Advanced Magnetometers delivers magnetometers, gradiometers and magnetic sensors for high-sensitivity, accurately positioned ground, airborne and stationary surveys. Each system offers unique benefits in terms of acquisition of high-quality data, cost control and ruggedness. In addition to a 25 year history in magnetometer design and manufacturing, GEM is known for its customer service and support. To learn more, visit [www.gemsys.ca](http://www.gemsys.ca)