

## **Global Matrechs Inc. Reports on Market Opportunities and Developments for Nuclear Storage and Containment.**

### *Company Ships NuCap™ Samples to Governmental Agencies*

RIDGEFIELD, CT January 09, 2006--Global Matrechs, Inc. <http://www.globalmatrechs.com> (OTCBB: GMTH) reports on developments and market opportunities for NuCap™, a family of advanced materials for nuclear and hazardous waste containment.

NuCap™ is a material highly resistant to radiation and corrosion resistant material. It has been engineered to resolve the tasks of the nuclear waste industry that cannot be solved reliably and economically by currently available technologies in encapsulation of nuclear and hazardous wastes. NuCap™ applications range from on-site stabilization, D & D and containment and encapsulation to transportation and final storage and disposal. NuCap™ can also assist in resolving the special challenges faced by operating reactors in nuclear power plants and research facilities.

According to the U.S. Energy Information Agency, a total of 47,023.4 metric tons of spent uranium was stored from 1968 to 2002. This can be referenced at [www.cnie.org/nle/crsreports/04dec/RS22001.pdf](http://www.cnie.org/nle/crsreports/04dec/RS22001.pdf). The U.S. Department of Energy spends an estimated \$4 billion annually for the restoration and management of sites contaminated by nuclear materials as stated in [http://commdocs.house.gov/committees/science/hsy72106.000/hsy72106\\_0.htm](http://commdocs.house.gov/committees/science/hsy72106.000/hsy72106_0.htm). As the United States government revises its guidelines for handling nuclear wastes, aging power plants stand to gain new life and value.

Ron Hagen, a nuclear energy analyst with the U.S. Department of Energy discussed the market and its developments: "It's a problem that a lot of people want to handle. Basically, there's been a lot of concern as to whether the spent fuel pools are terrorism targets."

The market is open to forecasting, but no one has ordered or built a new nuclear power plant in over 20 years. There are 104 commercial nuclear generating units licensed to operate in the United States. But, while nuclear generation has risen to record levels, nuclear capacity has barely changed in more than a decade.

Hagen said the U.S. government has made changes in how nuclear wastes are handled at the intermediate-time stage. "Primarily, it's because of the failure of Yucca Mountain to show up." (Yucca Mountain, in Nevada, for years has been designated as the nation's sole repository of nuclear wastes, but legal challenges, cost overruns and political and environmental opposition have stalled it since the late 1990s.)

"And that means the movement of portions of the waste has gone from a question of racking in the spent pools to the idea of how do you do dry storage. The character of the waste is different. Almost every site in the U.S. is going toward dry storage. The administration is also rethinking how they want to handle waste. There's a lot of talk lately about switching from handling waste to finding different kinds of reactors to handle them, but that won't come about for a long time.

"Intermediate storage is an issue as the ponds fill up. And how do you handle that? Pools have been around for a long time and it's basically replacing the pools by an intermediate thing."

Radioactive waste is currently stored in steel-lined concrete pools at power plant sites. The pools are considered safe for storage for about 100 years.

A more challenging issue is leaking storage drums. NuCap™ can be considered as an indispensable product to be used for immobilization of the waste inside and lining for repackaging of these drums – The product compliments the existing techniques with leaky drums filled with mixed or transuranic wastes. This problem is present at every nuclear waste site and amounts to many tens of thousands of drums since radioactive waste was originally stored in either carbon steel or plastic drums. Due to the aging of the

drums coupled with the corrosive effect of the stored materials, these drums have already started leaking or may start leaking in the future.

NuCap™ exhibits long-term durability combined with the convenience of field application and can be used for fixing leaks in storage drums, over-packing the drums and immobilizing the stored materials whether wet or dry, thereby assuring safe transportation and long-term storage.

The company has shipped sample orders to Finland, Germany and Richland, WA (Hanford). Michael Sheppard, President of Global Matrechs, Inc. stated "It is becoming very encouraging to see all the interest we are receiving on NuCap™. We hope that all this interest will continue to grow into full-scale contracts."

**More Info on NuCap™:**

NuCap™ is available as a coating or sealing agent with varying viscosity NuCap™ properties are easily customized to meet customer requirements and constraints. Each formulation of NuCap™ has completed performance testing conducted by independent laboratories certified by the U.S. Department of Energy. Global Matrechs also provides the necessary technical support for the successful application of NuCap.

**About Global Matrechs:** [www.globalmatrechs.com](http://www.globalmatrechs.com)

Since the sale of substantially all of the assets of the company's hosting and website maintenance business to Tulix, Global Matrechs has operated its licensed technologies business. Through its licensed technologies business, Global Matrechs seeks to convert the licenses it has acquired in emerging technologies in the nuclear energy, environmental and chemical industries into manufactured products primarily through sub-licenses of those technologies to manufacturers.

*"Forward-Looking Statements"*

*Investors are cautioned that certain statements contained in this document, as well as other statements in periodic press releases and some oral statements of Global Matrechs, Inc. officials during presentations, are "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995 (the "Act").*

*Forward-looking statements include statements which are predictive in nature, which depend upon or refer to future events or conditions, or which include words such as "expects," "anticipates," "intends," "plans," "believes," "estimates," "hopes," "seeks," or similar expressions. In addition, any statements concerning future financial performance (including future revenues, earnings or growth rates), ongoing business strategies or prospects, and possible future actions, which may be provided by management, are also forward-looking statements as defined by the Act.*

*Some of the factors that could significantly impact these forward-looking statements in this press release include, but are not limited to: insufficient cash flow to continue to fund the development and marketing of the Company's products and technologies; the failure of the Company's products and technologies to become commercially marketable; the loss of key personnel; changes in financial markets and general economic conditions; and, disputes as to the Company's intellectual property rights, including the Company's rights to the technologies that it licenses from Eurotech, Ltd. Forward-looking statements are based upon current expectations and projections about future events and are subject to risks, uncertainties, and assumptions about Global Matrechs, its licenses, products, economic and market factors and the sectors in which Global Matrechs does business, among other things. These statements are not guarantees of future performance and Global Matrechs has no specific intention to update these statements. More detailed information about those factors is contained in Global Matrechs's filings with the Securities and Exchange Commission.*

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