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Elixsys, LLC and Pacific Northwest National Labs Collaborate to Produce Slow-release Nitrogen Fertilizer from Coal Fly Ash

BAINBRIDGE ISLAND, WA -- 12/5/2011 - - Elixsys, LLC announced today that they have engaged Pacific Northwest National Labs to collaborate on a project to develop a slow-release Nitrogen fertilizer from coal fly ash. The collaboration effort will provide a channel for the commercialization of their respective technologies in an industry ripe for transformation due to poor N-use efficiency and increased awareness of the significant environmental impacts of N-fertilization. --Troy Niehaus, Elixsys Managing Director, stated, "Our approach is environmentally sustainable and transforms byproducts of industry, which are often discarded into landfills or exported overseas, to be reclaimed as needed source material for newly manufactured commercial products. Our collaboration with PNNL will not only benefit coal-burning facilities nation-wide by decreasing landfill usage, but also lead to the commercialization of an advanced new fertilizer for crop enhancement and increased food production on a worldwide scale."

James Amonette, Senior Research Scientist of PNNL, stated, "We're excited about working with Elixsys and having access to their patented technology. Our facilities, unique scientific equipment, and world-renowned scientists and engineers will contribute greatly to this effort. Together with Elixsys we hope to identify a commercial venue for offering a fertilizer that will provide adequate Nitrogen to plants while minimizing losses from leaching of nitrates and from emission of N₂O."

About Elixsys, LLC

Elixsys is offering our patent-pending hydrometallurgical process used for the remediation of waste streams into source material

for new commercial products. The Elixsys process removes heavy metals from coal fly ash, thus making it an excellent source material for other markets. Our parent company, Eagle Harbor Holdings (EHH), focuses on the earliest stages of development, building from scratch and taking ideas through the "beta" stage to prove commercial viability. EHH focuses on a variety of technology markets such as industrial metals recovery and automated vehicle situation awareness. Collectively, EHH engineers are named inventors on more than 200 issued patents, which include technologies that have been installed in tens of millions of vehicles. More info at <http://www.ehhllc.com>.

About Pacific Northwest National Labs

Pacific Northwest National Laboratory (PNNL) is a Department of Energy national laboratory located in Richland, Washington, where interdisciplinary teams advance science and technology and deliver solutions to America's most intractable problems in energy, the environment and national security. PNNL employs 4,800 staff, has an annual budget of nearly \$1.1 billion, and has been managed by Ohio-based Battelle since the lab's inception in 1965. PNNL's mission is to transform the world through courageous discovery and innovation. Our vision: PNNL science and technology inspires and enables the world to live prosperously, safely, and securely. Our values of integrity, creativity, collaboration, impact and courage provide the foundation for all we do. PNNL research strengthens the U.S. foundation for innovation, and helps find solutions for not only DOE, but for the U.S. Department of Homeland Security, the National Nuclear Security Administration, other government agencies, universities and industry. More info at <http://www.pnl.gov/>.