



NanoEngineering Corporation

...maneuvering matter on a molecular scale...

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Cutting-edge biochemistry instrument delivered to US Dept. of Energy molecular-sciences lab.

Battelle has purchased the first *Differential Mobility Analyzer- Mass Spectrometer* (DMA-MS) instrument from SEADM SL, www.seadm.com for use at the Environmental Molecular Sciences Laboratory (EMSL) operated by Pacific Northwest National Laboratory (PNNL). The DMA-MS will aid in their analysis of complex biochemical samples which may contain DNA, RNA, proteins, peptides and other bio-molecules.

This transaction represents the first commercial sale of DMA-MS system, technology licensed from Yale University. Mr. Jerry Schmitt, President of NanoEngineering Corporation states "We believe this first sale into the federal laboratory system will create additional requests for equipment. The DMA greatly enhances present research and development capabilities, increasing sample throughput, cutting time to market within the life sciences and fast tracking product development".

The Differential Mobility Analyzer (DMA) is an innovative means to provide mobility separation of bio-molecular ions prior to MS/MS analysis. In this application, the DMA serves as a mobility pre-filter that was fitted onto an existing ABI SCIEX Q-Star mass spectrometer available at PNNL. DMA-MS/MS operation offers two relevant advantages over MS/MS: 1) separation of isobaric species, and 2) greatly increased signal to noise ratio.

Analysis of bio-molecules now represents the largest market for MS instruments worldwide, a multi-billion-dollar industry. In this application, the innovative DMA offers superior performance when compared to conventional MS pre-filters based upon gas- or liquid-chromatography, ion-mobility spectrometers, or tandem-MS systems.

SEADM located in Valladolid, Spain, was founded by physicist and entrepreneur Gonzalo Fernandez de la Mora and his brother Juan, a Professor of Mechanical Engineering at Yale University. NanoEngineering Corp., www.nanoengineeringcorp.com located in West Palm Beach FL is the exclusive North American sales agent of SEADM, and was also co-founded by Prof. J.F. de la Mora.

Environmental Molecular Sciences Laboratory offers an open, collaborative environment for scientific discovery to researchers around the world. EMSL's technical experts and suite of custom and advanced instruments are unmatched. Its integrated computational and experimental capabilities enable researchers to realize fundamental insights and create technologies for energy, the environment and human health.

Pacific Northwest National Laboratory is a Dept. of Energy-Office of Science national laboratory where interdisciplinary teams advance science and technology and deliver solutions to America's most intractable problems in energy, national security and the environment. PNNL employs 4,000 staff, has an \$855 million annual budget, and has been managed by Ohio-based Battelle since the lab's inception in 1965. PNNL is based in Richland, WA

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