



***n*Gimat LLC Presents
“Production of High Quality Bi2212 Powder Using a Scalable Process”
at Applied Superconductivity Conference 2014**

CHARLOTTE NC, August 12, 2014 – *n*Gimat LLC Project Engineer Dr. Stephen Johnson presented the company’s latest developments on Bi2212 High-temperature Superconductor (HTS) Powder production at the Applied Superconductivity Conference.

Dr. Johnson discussed *n*Gimat LLC’s ongoing efforts to manufacture $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$ (Bi2212), a complex multi-metal oxide ceramic material composed of Bismuth, Strontium, Calcium and Copper. The U.S. superconducting community is in need of a stable domestic provider of Bi2212 HTS powder material for High-Energy Physics (HEP) applications, and *n*Gimat is using its proven technique of NanoSpraySM Combustion to manufacture powder in a scalable process. This process allows for control over material composition and particle size.

Recent analytical results from *n*Gimat’s powder production efforts including composition, crystal structure, Bi2212 phase purity and carbon content were presented, along with the strict quality control protocols recently implemented to ensure powder consistency. Results on the superconducting performance of *n*Gimat powder when made into tapes and multi-filamentary wires have been highly encouraging. Also presented were our plans for further scale-up of the manufacturing process to supply the volumes needed for next-generation HTS magnets.

Powder samples are available to the U.S. Superconducting Community at *no cost*, throughout this Department of Energy (DOE) funded Small Business Innovation Research (SBIR) effort. *n*Gimat is currently in the first year of this 2-year DOE SBIR Phase II effort.

Inquiries regarding this effort can be directed to Dr. Johnson at sjohnson@ngimat.com.

nGimat LLC specializes in nanomaterials R&D and manufacturing for the energy, automotive, electronics, and biomedical industries. nGimat LLC’s NanoSpray CombustionTM technology enables low-cost and high volume manufacturing of nano-engineered materials. Please go to <http://www.ngimatllc.com/products> to view our complete line of nanopowder products.