

Sandia National Laboratories Orders Commercial Grade Gallium Nitride Metal Organic Chemical Vapor Deposition System from Matheson/Taiyo Nippon Sanso Corporation

Basking Ridge, NJ, USA – October 9, 2014 – Matheson, together with its parent company, Taiyo Nippon Sanso Corporation (TNSC), announced today that the prestigious U.S. government institution, Sandia National Laboratories, has selected the company as the provider of a commercial grade gallium nitride (GaN) metal organic chemical vapor deposition (MOCVD) system for its continued compound semiconductor device developmental work with aluminum gallium nitride (AlGaN) and aluminum nitride (AlN). Sandia is scheduled to take delivery of the fully integrated SR-4000HT system in the first quarter of 2015. TNSC will build the system at its production facilities in Japan, and Matheson will be the U.S. provider to Sandia.

“We evaluated several different supplier systems and platforms for our needs through our rigorous competitive bidding process and, in the end, we found that the SR-4000HT best met our technical specifications. Its capability to grow atmospheric AlGaN layers with a high growth rate will improve the efficiency of our device development efforts, as well as, we believe, produce higher quality materials,” said Jeffrey Fiegel, a member of the Sandia technical staff who participated in the selection process.

“We are delighted that Sandia chose our system. The unique design of the SR-4000HT is largely based on Sandia’s research in early 2000, in addition to joint research between TNSC and Kyoto University in the late ‘90s. Growing high aluminum content devices at high growth rates, while operating at higher than 40kPa pressures and elevated temperatures will afford Sandia shorter fabrication turnaround times, better electrical properties, and unmatched reproducibility,” said TNSC Executive Corporate Officer Koh Matsumoto.

About Sandia National Laboratories

Sandia National Laboratories is a multi-program laboratory operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corp., for the U.S. Department of Energy’s National Nuclear Security Administration. With its main facilities in Albuquerque, N.M., and Livermore, Calif., Sandia has major R&D responsibilities in national security, energy and environmental technologies and economic competitiveness.

About Taiyo Nippon Sanso Corporation/Matheson

Taiyo Nippon Sanso Corporation, founded in 1910 and based in Tokyo, Japan, is a global supplier of industrial gases. In 1983, TNSC launched MOCVD operations alongside its conventional industrial gas operations.

Matheson is a single source for industrial, welding and safety supplies, medical, specialty and electronic gases, gas handling equipment, high performance purification systems, engineering and gas management services, as well as on-site gas generation. Its mission is to deliver

innovative solutions that meet global customer requirements. Matheson is the largest subsidiary of the Taiyo Nippon Sanso Corporation Group, one of the five largest suppliers of industrial, specialty and electronics gases in the world.