College of Nanoscale Science & Engineering

moserbaer Technologies

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MOSER BAER TECHNOLOGIES, UNIVERSAL DISPLAY CORPORATION, U.S. DEPARTMENT OF ENERGY AND CNSE'S SMART SYSTEM TECHNOLOGY & COMMERCIALIZATION CENTER LAUNCH GLOBAL PARTNERSHIP TO ESTABLISH PIONEERING CLEAN ENERGY FACILITY

$20M public-private investment will enable development of world's first pilot production line for Organic LEDs and create more than 50 high-tech jobs at CNSE's STC in Canandaigua

Canandaigua, New York – Moser Baer Technologies, Inc. ("MBT"), the U.S. division of Moser Baer India, Ltd., Universal Display Corporation ("UDC"), and the College of Nanoscale Science and Engineering's ("CNSE") Smart System Technology & Commercialization Center ("STC") today announced a partnership to establish the world's first pilot production facility for Organic Light Emitting Diode ("OLED") lighting panels at STC's Canandaigua location, which will create more than 50 high-tech jobs by 2012 while further building New York's world-class resources to support clean and environmentally friendly technologies.

MBT will invest $11.5 million to acquire state-of-the-art equipment for the pilot manufacturing line. This capability will play a critical role in the development and deployment of OLED solid state lighting ("SSL") technology, which offers increased energy efficiency, decreased power consumption, and an environmentally friendly alternative to traditional incandescent and compact fluorescent light bulbs.

The initiative is supported by a $4 million grant, through the American Recovery and Reinvestment Act, from the U.S. Department of Energy awarded to MBT's partner, UDC, a world leader in the development of innovative OLED technology for use in flat panel displays, lighting and organic electronics. During this program, UDC will demonstrate the scalability of its proprietary UniversalPHOLED™ technology and materials for the manufacture of white OLED lighting panels that meet commercial lighting targets.

In addition, Empire State Development ("ESD") will provide access to business incentives, including low-interest loans, and STC will contribute funding from an Economic Development Administration grant to construct advanced cleanroom space required by MBT to manufacture OLED lighting panels. Moser Baer is eligible to receive a Qualified Emerging Technology Credit ("QETC"); as well as Empire Zone benefits. Entry into the Empire Zone program was significantly aided by both the City of Geneva and Ontario County.

MBT CEO Dr. G. Rajeswaran said, "OLEDs were invented in Rochester, and we're taking advantage of the significant intellectual assets that exist here. That, in addition to the support from STC and CNSE, was a major reason for the decision to locate here. We feel strongly that this investment will place Rochester and the Finger Lakes region on the global map as the center for OLED lighting technology development and manufacturing. OLED lighting products will require new manufacturing technologies which will be developed and deployed in this very first OLED pilot production line in the world. Moser Baer Technologies and its partner companies are pleased to locate this clean technology project of global relevance in New York State."

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"We are very pleased to be part of this groundbreaking effort to bring high technology OLED manufacturing for energy efficient lighting to the United States," said Steven V. Abramson, President and Chief Executive Officer of Universal Display. "Our proprietary high efficiency phosphorescent OLED technology and materials, together with Moser Baer Technologies high volume manufacturing expertise, promises a bright future for OLED lighting here in the U.S. We are extremely pleased to be the leader of the team selected by the Department of Energy to help move the U.S. into the 21st century for the production of energy efficient, and environmentally friendly, solid state OLED lighting."

Empire State Development Chairman & CEO Dennis M. Mullen said: "Moser Baer's decision to locate their first U.S. operations at the recently created Smart Systems Technology Center is a tremendous example of the attraction capability New York State's Centers of Excellence have in the world of new and emerging technologies. The recently merged resources of the Smart System Tech Center under CNSE have brought the state's R&D capabilities in nano and micro technology to a new level. Moser Baer is a world-class manufacturer that chose to locate operations in New York State because our technology infrastructure, skilled workforce and strong partnerships between industry and higher education make New York unparalleled to any other location. Moser Baer will develop their technology to introduce highly-efficient, innovative lighting solutions at STC, which has the potential to generate $20 billion in savings of electricity costs worldwide and save over nine million metric tons of carbon emissions from the U.S. alone by 2016. Moser Baer's investment gives New York State an enormous competitive advantage in the field of advance manufacturing and high technology, further strengthening our leadership in the world's innovative economy."

CNSE Senior Vice President and CEO Dr. Alain Kaloyeros said, "We are delighted to engage in this pioneering partnership with Moser Baer Technologies, a recognized global technology leader, to establish a first-of-its-kind pilot production facility that will enable nanotechnology innovations for energy efficient and environmentally friendly lighting. Under the leadership of CNSE Vice President Paul Tolley, we look forward to building on the advanced capabilities at CNSE's Smart System Technology and Commercialization Center in Canandaigua, further accelerating critical technologies to address the needs of industry while attracting nanotechnology jobs, companies and investment to Western New York."

CNSE Vice President for Disruptive Technologies and STC Executive Director Paul Tolley said, "This public-private partnership will enable unparalleled capabilities at CNSE's Smart System Technology & Commercialization Center and place New York State at the forefront of innovation in OLED lighting technology. We are excited to work with Moser Baer Technologies and Universal Display Corporation on this important initiative, which will have far-reaching impacts on technology development and economic growth, while helping the transition to a more efficient and environmentally friendly lighting technology."

The announcement marks the first major development since the September 20 establishment of CNSE's STC, created through a merger of two of New York State's Centers of Excellence – the Infotonics Technology Center ("ITC") in Canandaigua and the Center of Excellence in Nanoelectronics and Nanotechnology ("CENN") at CNSE.

The OLED pilot production facility at CNSE's STC will be supported by leading-edge research and development and world-class technological capabilities at CNSE's $6.5 billion Albany NanoTech Complex, the most advanced research enterprise of its kind at any university in the world.

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Additionally, as part of the collaboration, CNSE's STC and MBT will jointly develop Solid-State Lighting ("SSL") technologies, which offer further improvements in energy efficiency and performance as compared to current technologies.

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About Moser Baer Technologies, Inc. – MBT is the U.S.-based subsidiary of Moser Baer India, Ltd., headquartered in New Delhi, and one of India's leading technology companies. Established in 1983, Moser Baer India is the world's second largest manufacturer of Optical Storage media like CDs, DVDs and BluRay discs. They are also a major producer of solar photovoltaic technologies, IT peripherals, consumer electronics, and home entertainment. Moser Baer has a presence in over 92 countries, and services through six marketing offices in India, the US, Europe and Japan. MBT is the company's first U.S. based manufacturing operation and will be the first OLED manufacturing line for lighting in the United States. Moser Baer currently has over 6,000 full-time employees worldwide. For more information, visit www.MoserBaer.com.

About CNSE. The UAlbany CNSE is the first college in the world dedicated to education, research, development, and deployment in the emerging disciplines of nanoscience, nanoengineering, nanobioscience, and nanoeconomics. CNSE's Albany NanoTech Complex is the most advanced research enterprise of its kind at any university in the world. With over $6.5 billion in high-tech investments, the 800,000-square-foot complex attracts corporate partners from around the world and offers students a one-of-a-kind academic experience. The UAlbany NanoCollege houses the only fully-integrated, 300mm wafer, computer chip pilot prototyping and demonstration line within 80,000 square feet of Class 1 capable cleanrooms. More than 2,500 scientists, researchers, engineers, students, and faculty work on site, from companies including IBM, AMD, GlobalFoundries, SEMATECH, Toshiba, Applied Materials, Tokyo Electron, ASML, Novellus Systems, Vistec Lithography and Atotech. An expansion currently in the planning stages is projected to increase the size of CNSE's Albany NanoTech Complex to over 1,250,000 square feet of next-generation infrastructure housing over 105,000 square feet of Class 1 capable cleanrooms and more than 3,750 scientists, researchers and engineers from CNSE and global corporations. For information, visit www.cnse.albany.edu.

About CNSE's STC. The College of Nanoscale Science and Engineering's Smart System Technology & Commercialization Center assists small and large companies transition new technologies from concept to manufacturing. STC maintains a 140,000-square-foot facility with over 25,000 square feet of cleanrooms for micro electromechanical systems (MEMS) fabrication and packaging, and works with large and medium-sized companies to help them bring new technologies to market; with small companies ready to transition from prototype and low-volume manufacturing to scalable manufacturing; and with various federal agencies to develop technology solutions to areas of critical national need, including smart prosthetics and improvised explosive device (IED) detection. For more information, visit www.stcmems.com.

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The following statements were provided in support of today's announcement:

U.S. Senator Charles Schumer said, "When I first started working with STC just after arriving in the Senate 11 years ago, it was our hope for the Center to be a hub in the creation of new, high-paying, high-tech jobs for the region. This announcement from Moser Baer is a major step in transforming that vision into reality. I am extremely excited to see this new high-tech industry locate and grow in New York State."

New York State Assembly Minority Leader Brian Kolb (R-Canandaigua), whose district includes CNSE's STC, said, "Not only does this project bring high-tech manufacturing jobs to this region, but the spin-off benefits are far flung. These are very high paying jobs, and this will ultimately result in positive benefits to the whole community. Moser Baer has already started to engage local service and raw materials suppliers who will also benefit from their being located here."

Barry Young, Managing Director of the OLED Association, an industry wide organization promoting the benefits of OLED technology, said, "OLEDs, which have been very successful in smart phone displays, show great promise as an efficient, diffuse and ecologically friendly light source. The establishment of the nation's first OLED pilot manufacturing line at STC's facility provides an opportunity for New York State to be a leader in reducing the energy consumed by lighting while creating new high paying jobs in the manufacturing sector."

Ontario County IDA Director Michael Manikowski said, "A number of organizations came together to make this happen. The City of Geneva, Town of Canandaigua, the IDA and STC all worked together to assemble a package of incentives that led to Moser Baer deciding this was the place to locate this new industry. I am extremely excited at the prospect of future development at the site for additional manufacturing jobs."