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Director

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For Immediate Release:
May 26, 2010

Strickland, Fingerhut, and Patt-McDaniel Announce More than \$20 Million in Ohio Third Frontier Wright Projects Program Funding

Columbus, Ohio – The Ohio Third Frontier Commission today recommended more than \$20 million in funding through the Ohio Third Frontier Wright Projects Program, which will leverage nearly \$24.5 million in additional investment in the State of Ohio. The Ohio Third Frontier Wright Projects Program links research capabilities of Ohio’s colleges, universities, and nonprofit research institutions with specific needs of Ohio industry. The awards are contingent upon State Controlling Board approval.

“Our colleges, universities, and research institutions are developing Ohio’s next entrepreneurs, and the Ohio Third Frontier is connecting our students with the technologies of the future,” said Governor Ted Strickland. “The Wright Projects Program is helping prepare Ohioans for the new kinds of jobs our economy is creating.”

“The research conducted at Ohio’s colleges, universities, and research institutions is vital to producing innovative products for the marketplace and developing new technologies in the state,” said Eric Fingerhut, Chancellor of the Ohio Board of Regents and Chairman of the Ohio Third Frontier Commission. “Ohioans are consistently leading the way in creating new products and ideas to assist the growing technology industry and these awards are an important opportunity for us to invest in their ideas.”

The Ohio Third Frontier Wright Projects Program accelerates the development and growth of Ohio’s key technology sectors, including Advanced/Alternative Energy; Instruments, Controls, and Electronics; Advanced Materials; Advanced Propulsion; and Biomedical. The Program supports major capital acquisitions and improvements at Ohio’s colleges, universities, and nonprofit research institutions, which in turn will support near-term commercialization objectives of for-profit Ohio companies. The program is designed for resulting projects to create wealth and employment opportunities within Ohio, supporting long-term use of capital to promote educational and training programs for workers and students in these targeted technology sectors.

“The investments made today by Ohio Third Frontier ensures that our state continues to support cutting-edge technology that can not only change lives, but can often times save lives,” said Lisa Patt-McDaniel, Director of the Ohio Department of Development and Ohio Third Frontier Commission member.

Fiscal Year 2010 Ohio Third Frontier Wright Projects Program Awards:

Case Western Reserve University, located in the City of Cleveland (Cuyahoga County), in collaboration with the Center for Stem Cell and Regenerative Medicine, Cleveland Clinic Foundation, Cincinnati Children’s Hospital Medical Center, Cleveland Cord Blood Center, BioInVision, Athersys, Perkin-Elmer, Thermogenesis, GE Healthcare, Hospira, and Lakeland Community College, was awarded \$2.1 million for its *Development of a Quantitative Analysis System for Stem Cells* project. This project focuses on research commercialization of non-embryonic umbilical cord blood stem cells

as an FDA-licensed novel cellular therapeutic product in hematology transplant patients and on rendering reliable and reproducible quantitative measurements of umbilical cord blood stem cells for in vitro and in vivo pre-clinical assay models.

The Cleveland Clinic, located in the City of Cleveland (Cuyahoga County), in collaboration with Parker Hannifin, Bertec Corporation, Case Western Reserve University, and the Louis Stokes Cleveland VA Medical Center, was awarded \$3 million for its *Clinically Applied Rehabilitation Engineering (CARE)* project. The project is focused on the development, testing, manufacturing, and commercialization of advanced rehabilitative medical products targeting patients suffering from cardiovascular, neurodegenerative, metabolic, and musculoskeletal diseases who require mobility rehabilitative intervention.

The Ohio State University, located in the City of Columbus (Franklin County), in collaboration with CAR Technologies, Vanner, STMicroelectronics, and AeroVironment, was awarded \$3 million for its *Center of Excellence for Energy Storage Technology* project. This project will address demands of automotive and commercial vehicle equipment manufacturers and suppliers developing new electric, plug-in hybrid, and more fully electrified commercial vehicles by providing battery systems, products, and testing services for the commercialization of vehicle electrification products.

The Ohio State University, located in the City of Columbus (Franklin County), in collaboration with GE Aviation Electrical Power Systems and Wright-Patterson's Air Force Research Laboratory, was awarded \$3 million for its *Center for High Performance Power Electronics* project. The project focuses on the research commercialization of silicon carbide power semiconductors for electrical power handling in the military and civil aircraft industry, leading to power semiconductors that operate at higher temperatures, higher switching frequencies, and lower switching losses for aircraft engine starting, emergency power, battery charging, and circuit breakers.

Ohio University, located in the City of Athens (Athens County), in collaboration with Algae Producers of America, the University of Toledo, Center for Innovative Food Technologies, Recombinant Innovation, Harrison County Engineer, Red Lion Bio-Energy, Midwest Biorenewables, Lubrizol, Independence Bio-Products, Tri-County Career Center, Parker Hannifin, and Univenture, was awarded \$2,970,063 for its *Center for Algal Engineering Research and Commercialization* project. The project will further research commercialization efforts by developing an advanced multi-platform facility for real-world testing of algal production and processing technologies with system integration for upstream carbon dioxide and waste nutrient sources, as well as downstream algal applications including algal systems and products.

The University of Cincinnati, located in the City of Cincinnati (Hamilton County), in collaboration with Siloam Biosciences, Gamma Dynamics, Sun Chemical, and EnMonT, was awarded \$2,956,675 for its project, *The Ohio Center for Microfluidic Innovation (OCMI) – New Products and Competitive Manufacturing of Emerging Biomedical Applications*. This project focuses on research, manufacturing, and commercialization of microfluidics technology, which provides a more valuable test result using much less of a fluid sample than current technology. For example, in emergency room pregnancy testing, the technology reveals additional information such as the stage of pregnancy and the potential of a high-risk pregnancy. This information is extremely valuable to the physician but is currently only available after a several hour delay.

The University of Dayton, located in the City of Dayton (Montgomery County), in collaboration with Renegade Materials, Goodrich, and Owens Corning, was awarded \$3 million for its *Hybrid Fabrics for Multifunctional Composites* project. This project is designed to enable the production of a revolutionary new multi-scale composite material targeted for a broad spectrum of applications in industries ranging from aerospace to energy storage and conversion.

To view information about Ohio Third Frontier and the Wright Projects Program, please visit www.OhioThirdFrontier.com.

Ohio Third Frontier, an unprecedented and bipartisan commitment to create new technology-based products, companies, industries, and jobs, has commercialized or created more than 630 companies, attracted more than \$4.76 billion in private investment to Ohio, and has a nearly 9:1 return on investment since its inception.

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