

Latest M Square Tenant Opens Door to New Research Possibilities

THE INTELLIGENCE ADVANCED RESEARCH PROJECT ACTIVITY (IARPA), a cutting-edge government research agency, has become the newest tenant to join M Square, the University of Maryland Research Park. As such, the national security-related agency will be working collaboratively with researchers and scholars at the university, exploring new research opportunities of importance to the intelligence community.

"We are delighted that IARPA has chosen to locate near our campus and our intellectual environment," says **Mel Bernstein**, vice president for research. "This will make for an exciting working relationship that will not only benefit the university and the government, but society, as well, helping keep our nation safer."

IARPA is expected to be in a newly constructed building by 2009 and is now temporarily located in the Center for Advanced Study of Language (CASL), the nation's largest language research center and an early M Square tenant.

Modeled after the military's Defense Advanced Research Projects Agency, IARPA

is charged with developing groundbreaking technologies for the U.S. intelligence community. IARPA consolidates the National Security Agency's Disruptive Technology Office (previously called the Advanced Research and Development Activity); the National Geospatial-Intelligence Agency's National Technology Alliance; and the Central Intelligence Agency's Intelligence Technology Innovation Center.

"IARPA opens a new chapter in the nation's capacity to address its security challenges, both those that are known today and those that are sure to come," says university president, **Dan Mote**. "The university's education and research programs will serve IARPA extremely well."

Adds **Ken Gertz**, associate vice president for research development, "Our unique strengths here at the university in areas such as computer vision, quantum science and technology, cultural modeling, information assurance and language technology are well positioned to support the mission of IARPA. Our research efforts are extremely synergistic."



The University of Maryland's research strengths in key areas was a major factor in IARPA choosing to come to M Square.



Other M Square Tenants



At full capacity, M Square will be the region's largest university research park, with more than 2 million square feet of facilities. The 124-acre research park focuses on three main themes: food safety and security, homeland security and intelligence technologies, and earth and space sciences, focusing primarily on climate change. In addition to IARPA and CASL other major research facilities include:

- **The National Oceanic and Atmospheric Administration Center for Weather and Climate Prediction**, set to open in summer 2008. NOAA scientists expect to work closely with Maryland faculty whose research involves the earth and space sciences. A number of national earth sci-

ence research groups will be located next to the NOAA facility in a separate 120,000 square foot building.

- **The National Foreign Language Center**, an already established center that investigates the strategic impact of language and cross-cultural communication.
- **The American Center of Physics**, home of the nation's major physics organizations.
- The U.S. Food and Drug Administration's **Center For Food Safety and Applied Nutrition**, or CFSAN. This federal lab conducts research on important issues concerning food safety and security, and in collaboration with the University of Maryland conducts significant international training on global food safety and security issues.

For more information, visit www.umresearchpark.umd.edu.

New University Attending Vet Named



Douglas A. Powell, D.V.M., has been named the university attending veterinarian and director of the Laboratory for Animal Resources (LAR). Powell's responsibilities will include overseeing the administrative, regulatory and financial functions of LAR. He will be taking the lead role

in directing the animal care programs for the campus as the university works toward accreditation by the Association for Assessment and Accreditation of Laboratory Animal Care International. Formerly with NIH, Powell is a diplomate of the American College of Laboratory Animal Medicine.

THE FEDERAL CORNER

JANUARY UPDATE AND ANALYSIS FROM THE OFFICE OF FEDERAL RELATIONS

'08 Budget Is Disappointing for Science Funding

The '08 Omnibus Budget bill finally passed just before the holidays, but there weren't many gifts in the science research funding stocking. An 11th hour agreement between Congress and the President compromised many of the science budgets. There seems to be a general lack of understanding— despite very hard work from many corners—that investing in our scientific infrastructure is critically important, relative to other funding priorities.

The '08 Omnibus bill, which totaled \$550 billion plus \$70 billion in emergency war funding, combined 11 unfinished appropriations bills. Funding

for most science programs is flat, which means that the federal investment in research and development in FY08 is significantly less than earlier Congressional plans had stated. Federal funding for basic and applied research would decline in real terms for the fourth year in a row. The bill removes most of the requested increases for the three agencies supporting the physical sciences: Department of Energy's Office of Science, National Science Foundation and National Institute for Standards and Technology. Science advocates will re-double their efforts to make the case about the need for the investment in science in the coming fiscal year.

Look to the Federal Corner for more information regarding higher education and the federal government. If you have a specific matter you would like to see discussed in this column, please contact Rae Grad, director of federal relations, at rgrad@umd.edu.

NEWS You Can Use

FROM THE OFFICE OF RESEARCH ADMINISTRATION AND ADVANCEMENT (ORAA)

ORAA is pleased to announce that the university will host the debut of a **National Council of University Research Administrators (NCURA)** workshop. This new hands-on workshop was designed by, and is intended for, departmental research administrators. It will be held on March 12-14, 2008, at the Riggs Alumni Center on campus. Details to follow soon!

eRA News

The National Institutes of Health (NIH) has decreased the correction window for all electronic applications to two business days after the receipt date. Eventually, NIH will not allow any corrections after the actual due date. The correction window is meant to be used to resubmit applications if there are errors. Pls are discouraged from using this as extra time to fine-tune a proposal.

NSF FastLane is now using ID numbers instead of Social Security numbers. These numbers are randomly generated. When logging onto FastLane with a Social Security number, the users will receive an alert with their NSF ID, a nine-digit number. If you forget your ID number, email FastLane or contact ORAA's eRA Help Desk at ext. 56263.

Grants.gov Adobe Forms

Many agencies have transitioned to the new Adobe forms. If the package downloaded from Grants.gov contains these forms, faculty and staff will need to have Adobe Reader 8.1.1 installed in order to correctly complete the application package. Use of other versions of Reader will cause errors that will not be revealed until ORAA tries to submit the package to Grants.gov.

Reminder: All electronic packages are due in ORAA six working days prior to the deadline to ensure a successful submission to Grants.gov.

In the coming months, we will continue to introduce you to new faculty and research scientists who have joined the Maryland research community within the past year.



Lisa Taneyhill is an assistant professor of animal and avian sciences. Her research includes the use of molecular, cellular and biochemical techniques to study neural crest formation in the chicken embryo to better understand overall animal growth and development.



Azar Nazeri is a new research manager facilitating the Energy Education and Research Collaboration between the University of Maryland and the Petroleum Institute at Abu Dhabi. She brings more than 15 years of experience as a research scientist and program manager.



Derek Paley is an assistant professor of aerospace engineering. His research focuses on nonlinear dynamics and controls, cooperative control of autonomous vehicles, autonomous underwater vehicles, and modeling of animal aggregations.



Victoria-Maria MacDonald is a visiting associate professor of minority and urban education in the College of Education's Department of Curriculum and Instruction. She is an historian of education specializing in the history of Latinos, Southern urban education, and Black-Latino relations in contemporary schools.



Emel Filiz Ozbay is an assistant professor of economics. Her research interests are in theoretical economics, contract theory, decision theory and experimental economics.

FACULTY AWARDS & HONORS



KATEPALLI SREENIVASAN, Distinguished University Professor of physics and former director of the Institute for Physical Science and Technology, has been elected to the National Academy of Sciences. Sreenivasan, who also holds a joint appointment with mechanical engineering, is one of the world's premier researchers in fluid dynamics and turbulence.



STEVEN GARBRIEL, associate professor of civil and environmental engineering, received the Gilbert F. White Fellowship from Resources for the Future for 2007-2008. Resources for the Future is an internationally renowned, independent institute in Washington, D.C., dedicated to the analysis of environmental, energy and natural resource issues.



UZI VISHKIN, a professor with the Department of Electrical and Computer Engineering and the University of Maryland Institute for Advanced Computer Studies, was honored last fall by the *Maryland Daily Record* for his recent advances in parallel computing technology. Vishkin has received international attention for the desktop supercomputing prototype he created, which is capable of speeds 100 times faster than current desktops, representing a paradigm for the next generation of computers.

Smart Growth Center's Research Influences Public Policy

The National Center for Smart Growth Research and Education, housed in the School of Architecture, Planning and Preservation, is focused on research that addresses smart growth issues such as transportation and public health, land use and the environment, housing and community development and international development. In doing so, the center brings together the expertise of faculty and researchers from four different schools on campus — architecture; public policy; agriculture and natural resources; and engineering.

But, the work of the center does not stop with the research alone. For example, **Gerrit-Jan Knaap**, the center's executive director, serves on Gov. Martin O'Malley's Smart Growth Subcabinet. "Working so closely with the administration you create this tie between policy research and policy-making itself," says Knaap, who is also a professor of urban studies and planning.

That close link is all the more evident with the center's latest project. Working with the State Highway Administration, the center will be home to the first statewide transportation model. The transportation model will incorporate land use information, economic information and natural resource information "in helping the state do a better job of transportation and land use planning," explains Knaap. The model will provide examples of the different ways the state can grow and the implications of those different growth patterns.

"We're providing a resource for the state as it goes forward in preparing for the future," says Knaap. Adding, "We have our fingers on the pulse of the issues that state policy-makers are addressing regularly. That keeps us and our research relevant."



UPCOMING EVENTS & CONFERENCES

RESEARCH SEMINAR SERIES

Overview of ONR Strategic Objectives

Featured speaker is Admiral William E. "Bill" Landay III, chief of naval research

Thursday, Feb. 7, 11 a.m. to noon

Juan Ramon Jimenez Room, Stamp Student Union Building
For more information: geronimo@umd.edu

Air Force Research Priorities and Strategic Overview

Featured speaker is Mark J. Lewis, chief scientist of the U.S. Air Force in Washington, D.C.

Wednesday, Feb. 27, 11 a.m. to noon

Pepco Room (Room 1105), Jeong H. Kim Engineering Building
Please R.S.V.P. to jdibrell@umd.edu by Feb. 20. *Space is limited.*
For more information: geronimo@umd.edu

National Science Foundation's Priorities and Future Directions

Featured speaker is Tom Cooley, chief financial officer and director of the Office of Budget, Finance and Award Management of the National Science Foundation.

Tuesday, March 4, 11 a.m. to noon

Benjamin Banneker Room, Stamp Student Union Building
Please R.S.V.P. to jdibrell@umd.edu by Feb. 29. *Space is limited.*
For more information: geronimo@umd.edu



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