Pitt's New Seismic Station Connects Region With Global Network Of Scientists Unraveling Earth's Structure

By Morgan Kelly

A seismic station newly installed at the University of Pittsburgh’s Allegheny Observatory revives Pitt’s long-dormant work in seismology and—as the region’s only seismic station—unites Western Pennsylvania with a global network of scientists aiming to better understand the Earth’s structure.

Maintained by the Department of Geology and Planetary Science in Pitt’s School of Arts and Sciences, Pitt’s installation boasts a highly sensitive seismograph—a heavy steel canister that must be perfectly level—that can detect tremors generated anywhere in the world. Pitt’s seismograph—a heavy steel canister that must be perfectly level—responds to a ground shaking that includes earthquakes that shook Alaska’s Aleutian Islands—nearly 4,000 miles away—on Oct. 12.

“Chaque event we record, we can learn about our region because of this,” said Brandon Busted, founder and CEO of OTC. “On behalf of all of the participating organizations, I want to congratulate Chancellor Nordenberg for his vision and implementation of programs and policies that have helped create a campus community less defined by alcohol.”

The Presidential Leadership Award was developed by six major higher education organizations, including TGF, OTC, the American College Personnel Association, the Association of Governing Boards of Universities and Colleges, NASPA—Student Affairs Administrators in Higher Education, and United Educators. The award, funded by TGF and OTC, carries a $50,000 donation made to the university or college in the name of the recipient.

For nearly a decade, OTC has been committed to strengthening the field of alcohol prevention by providing effective student-to-student programming; Alcohol Task Force, leading to a new student recreation area, serving as an alternative location to social drinking; and the launch of two successful public awareness campaigns when the campus men’s basketball team advanced to the Elite Eight of the NCAA tournament, encouraging students to celebrate responsibly. “These efforts led to a 61 percent increase in students who reported receiving information from the university on alcohol,” the announcement added.

“We are glad to see the visibility of high-risk drinking raised through the recent conversation among college presidents,” said Brandon Busted, founder and CEO of OTC. “On behalf of all of the participating organizations, I want to congratulate Chancellor Nordenberg for his vision and implementation of programs and policies that have helped create a campus community less defined by alcohol.”

The Allegheny Observatory station restores a 70-year-old legacy of seismic research at Pitt. At the behest of the late Pitt Chancellor John Bowman, the Cathedral of Learning originally housed an earth-floor “seismograph” created by the U.S. Geological Survey in a state-of-the-art seismograph constructed at the California Institute of Technology. The instrument was dismantled several decades ago, and the site currently stores artifacts for Pitt’s Nationality Rooms.

The new station—identified on IRIS as “UPA0”—hooks into two IRIS networks: the REALTIME network of nearly 1,400 stations around the world that instantly displays earthquake data, and the US-REGIONAL network based at Lawrence Livermore National Laboratory that includes approximately 2,000 stations in the United States and Puerto Rico. Pitt belongs to a five-station subnetwork that also includes seismic stations at the Pennsylvania Geological Survey near Harrisburg, on the Penn State campus and at a Penn State substation outside of Philadelphia, and at North Carolina Agricultural and Technical State University.

Relevant to Pittsburgh, the Pitt station can indicate how events several thousand miles away manifest locally and what that signifies about Pittsburgh’s geology, Harbert said. In addition, he will focus the station’s capabilities on more local activity such as storms on the Great Lakes and the East Coast, as well as such new research areas as determining the possible consequences of underground carbon sequestration.

“Pitt’s seismograph also will be used in education. An ongoing project between Pitt and the Carnegie Museum of Natural History seeks to eventually have information from Pitt’s seismograph displayed in the museum. Harbert also will use the standard readings in his geophysics classes to demonstrate seismographs.”

More information on and data from Pitt’s seismic station is available on the IRIS Web site at www.iris.edu/mda/PE/UPA0.
Pitt Chronicle
November 2, 2009

Nordenberg Lecture
In Law, Medicine, and Psychiatry to focus on Genetic Testing

Gall H. Jovett will deliver the annual Ruth A. Nordenberg Lecture in Law, Medicine, and Psychiatry, titled “Director-Consumer Genetic Testing,” at noon Nov. 5 in the William Pitt Union. Jovett is a professor of molecular medicine at the University of California, San Diego, and a former deputy director of the FBI Laboratory.

“Irrefutably, genetic testing is changing what we do as physicians,” Jovett said. “And in the next decade, this will expand to an even greater extent.”

Ruth A. Nordenberg was the first woman to serve on the executive committee of the American Bar Association.

For more information, contact 412-648-7394 or modelun@pitt.edu.

C.D. Wright to Speak at Pitt Nov. 5

Critically acclaimed poet C.D. Wright will give her perspective of the past, present, and future of poetry during an interview titled “The Future of Poetry I,” at 10 a.m. Nov. 5 in the Frick Fine Arts Auditorium.

Wright is the author of a dozen books, including Rising, Falling, Hovering (Copper Canyon Press, 2008), which won the 2009 Griffin Poetry Prize. Her poems and essays have appeared in such literary magazines as American Letters & Commentary, Antioch, and Conjunctions. Among Wright’s numerous honors are fellowships from the John D. and Catherine T. MacArthur Foundation, the John Simon Guggenheim Memorial Foundation, and the National Endowment for the Arts.

The event is part of the Pittsburgh Contemporary Writers Series’ 2009-10 season.

For more information, contact Jeff Oaks at oaks@pitt.edu or visit www.english.pitt.edu.

Katz’s J. Jeffrey Inman To Discuss Consumer Marketing

With the downturn in the economy, it is especially important for marketing specialists to understand consumers’ “path to purchase” and how to effectively leverage that information into strategies at the shelf.

J. Jeffrey Inman, the Albert Wesley Frey Professor of Marketing in Pitt’s Joseph M. Katz Graduate School of Business, is a leading researcher in consumer marketing. At 7:30 a.m. Nov. 10, he will discuss the latest trends in consumer marketing and highlight 10 conclusions from his latest research.

The event, which is part of the Katz School’s Pittsburgh Executive Series, will be held on the fifth floor of Alumni Hall. Registration is required. To register or for more information, contact Linda Anderson at 412-648-1608 or l Anderson@katz.pitt.edu.

Cindy M. DeMoss
Senior Writer
Pitt Trustees’ Property and Facilities Committee Approves $15 Million in Construction

By John Fedele

A new residence hall for the University of Pittsburgh at Bradford campus and a new wellness center for the University of Pittsburgh at Johnstown campus are the highlights of $15 million in construction projects approved Oct. 30 by the Property and Facilities Committee of Pitt’s Board of Trustees. In addition, the committee approved the purchase of the property at 315 Oakland Ave. in Oakland for $1.395 million for eventual conversion into undergraduate student apartments. The construction projects are expected to generate 80 on-site jobs and 32 support jobs.

The Bradford campus’ three-story residence hall will cost $5.42 million and house 103 students. The building, with 30,300 gross square feet, will consist of 20 two-bedroom, 3 three-bedroom, and 4 one-bedroom suites. The project is expected to be completed by August 2010.

“The Bradford campus has met its long-term enrollment goal of 1,500 full-time equivalent students and because changing student demographics have increased the number of traditional-age students from beyond commuting distance, Pitt-Bradford has an increased demand for on-campus residence facilities,” said Pitt Executive Vice Chancellor Jerome W. Cox. “The new facility will provide students with an appropriate continuation of the educational experience and aid in future recruitment.”

The new construction at the Johnstown campus, part of the University’s 12-year facilities plan, will be a 38,000-gross-square-foot multipurpose wellness and recreation center that will cost $9.66 million. The facility will include a multipurpose gymnasium, an elevated three-lane running track, a fitness center with weight and cardiovascular exercise equipment, a climbing wall, and two combination classroom/dance/exercise rooms, as well as public restrooms and office space. The project is expected to be completed by December 2010.

“The wellness center will provide a much-needed recreational and social space that has been long identified as a priority by Johnstown campus students,” said Cox. “The current facilities are limited and over-capacity, given the demands posed by intercollegiate athletics, educational instruction, and intramural activity. The new facility will also be important for the Johnstown campus to satisfy the needs of its current resident students and achieve its enrollment targets.”

In addition, the committee approved the purchase of the three-quarter-acre parcel of land at 315 Oakland Ave., located directly next to Pitt’s Bouquet Gardens residence. The property has a 2.5-story, 5,000-square-foot building that, most recently, was used as offices. A closing by the end of December is anticipated.

“The University believes that the land is well suited for additional undergraduate student apartments. We are conducting zoning and design studies to advance the necessary planning for the project,” said Cox.

Gomez Is Senior Partner in Carnegie Foundation Program

“With the help of these partners, each of whom brings expertise to the work, Carnegie will convene the right mix of practitioners, researchers, social entrepreneurs, policy makers, and other stakeholders—including students—to map the dimensions of a problem, identify promising solutions, and advocate and support the efforts of a community engaged in continuous evidence-based improvement,” Carnegie President Anthony S. Bryk said. “These five partners will be integral to these efforts.”

Gomez has worked with Bryk to develop a new approach to education research and development, Design-Educational Engineering-and-Development (DEED). According to the Carnegie Foundation’s announcement of Gomez’ appointment, “isolated, short-term projects at a few sites must give way to longer-term, cooperative initiatives that move through repeated cycles of problem diagnosis, design, assessment, and redesign—a process carefully attuned to the variations among sites and circumstances in which improvements must take root. The DEED approach is based on the notion that it is not sufficient to know that a program or innovation can work, but how to make it work reliably over many diverse contexts and situations.”

Prior to joining Pitt in January 2009, Gomez was Aon Professor of Learning Sciences and professor of computer science at Northwestern University. He also served as lead investigator for Project On, a three-year, $15 million project, at Northwestern, working with school communities to create social arrangements and curricula to support school improvement. He was a codirector of the National Science Foundation-sponsored Center for Learning Technologies in Urban Schools (LeTUS), a partnership comprising the Chicago Public Schools, the Detroit Public Schools, the University of Michigan, and Northwestern.

He is a member of the National Advisory Committee of the Math and Science Partnership, Knowledge, Management, and Dissemination Project; the external advisory board of the Center for the Advancement of Engineering Education at the University of Washington; the MacArthur Foundation Teaching and Learning Planning Network; the board of directors of CAST (Center for Applied Special Technology); and the board of trustees of the Carnegie Foundation for the Advancement of Teaching. He also serves as a member of the National Research Council’s Center for Education and the Pittsburgh Science of Learning Center. Among Gomez’ publications are “Nurturing Social Learning: Reading and Writing Science” with coauthors in A. Rodriguez Science Education, Learning, and Partnerships in Teaching Language Literacy (Rotterdam, Netherlands: Sense Publishing, in press); The Role of Research in Educational Improvement, with coauthors (Harvard Education Press, 2009); “Creating Social Relationships: The Role of Technology in Pre-Service Teacher Preparation” with coauthors in the Journal of Teacher Education (2008); and, with Kimberley Gomez, “Reading for Learning: Literacy Supports for 21st Century Work,” in Phi Delta Kappan (2007) and “Preparing Young Learners for the 21st Century: Reading and Writing Science,” in Phi Delta Kappan (2007).

Gomez received the PhD degree in psychology from the State University of New York at Stony Brook in 1974 and the PhD degree in educational psychology and computing from the University of California, Berkeley, in 1979. Founded by Andrew Carnegie in 1905 and chartered in 1906 by an act of Congress, The Carnegie Foundation for the Advancement of Teaching is an independent policy and research center.

The NRC grant will support two PhD students with $50,000 a year for four years; the students will be enrolled in the Department of Mechanical Engineering and Materials Science’s (MEMS) doctoral program. Under the guidance of MEMS professor William Kepler Whiteford, faculty Fellow Jorg Wiezorek, the students will work to develop a more quantitative and mechanistic understanding of the degradation of the austenitic stainless steels used in constructing nuclear reactors.

The fellowship grant marks the third time the NRC has recognized Pitt’s nuclear engineering program with substantial funding. In August 2008, the program received grants totaling $400,000 for graduate and undergraduate certificate programs. Since 2007, the NRC has provided $400,000 in seed money for the graduate certificate, a unique aspect of Pitt’s program that is geared toward students across Pennsylvania and offers further education to nuclear engineers already in the workforce. Directed by Larry Foulke, a noted 40-year veteran of the nuclear industry, Pitt’s program was established to answer the growing demand for nuclear engineers.

Swanson School Nuclear Engineering Program Wins $400,000 Grant From NRC

By Morgan Kelly

The Swanson School of Engineering’s nuclear engineering program won a coveted $400,000 grant from the U.S. Nuclear Regulatory Commission (NRC) to back two graduate fellowships, which will help bolster the academic research component of Pitt’s nearly three-year-old program. As the only nuclear engineering track in Western Pennsylvania, the program already is noted for teaching and training aspiring engineers in nuclear operations and safety by working closely with the region’s uniquely high concentration of nuclear engineering experts at such companies as Bechtel Bettis, Westinghouse Electric Company, and FirstEnergy Nuclear Operating Company, which operates the Beaver Valley Power Station nuclear power plant in Shippingport, Pa.
Pittsburgh was alive with the sights and sounds of dancing, dining, discussions, celebrations, football, and fireworks during the Oct. 22-25 Pitt Homecoming 2009. 1. The Pitt Program Council’s Oct. 23 fireworks and laser show lit up the skies of Oakland. 2 and 3. The University’s African American Alumni Council (AAAC) celebrated its Sankofa Homecoming Weekend, marking the many strides in diversity that Pitt has made over the past four decades. Honored during an Oct. 24 AAAC Banquet Gala in Alumni Hall’s Connelly Ballroom were seven Pitt graduates who were named Distinguished African American Alumni. Standing with Chancellor Mark A. Nordenberg (back row, far right) are, from left, Robert Agbede (ENGR ‘79, ‘81G), Bernard Mack (A&S ‘88), Pitt Trustee William E. Strickland Jr. (A&S ’70), and Gregory Randall Spencer (GS ’80). Front row, from left, are Rachel Poole (NURS ’47, ’52G, EDUC ’77G), Linda Wharton-Boyd (A&S ’72, ’75G, ’79G), Noma Bennett Anderson (SHRS ’79G), and Nadine Frye (NURS ’47, ’51G, EDUC ’87G). (Wharton-Boyd, AAAC’s president, presented the awards.) 4. Pitt’s School of Nursing held its 50+ Luncheon on Oct. 23 in the Victoria Building. Pictured are members of the nursing school’s class of 1959, from left: Evelyn Romminger, Beverly Benz Hogan, Janet Uplinger, Menretta Davis Aarons, Vail Watson Jackson, Jane Way, Megan Lewis McDonald, Shirley Powe Smith, Elizabeth Nicholson Ivey, and Margaret Park Tall. 5. Dan Thomas and Delya Akryez were chosen as Homecoming King and Queen.
1. Pitt's Joe Thomas, No. 56, lifts teammate Dion Lewis following another Pitt touchdown during the Oct. 24 Homecoming game against South Florida University at Heinz Field. The Panthers won 41-14.

2. Chancellor Mark A. Nordenberg and Linda Wharton-Boyd, president of Pitt's African American Alumni Council, view the Historical Exhibition of African American Progress at Pitt, located in Hillman Library.

3 and 4. Alumni reconnected with one another during the Oct. 23 Welcome Back Reception in the Cathedral of Learning Commons Room. The Pitt Men's Glee Club, directed by Richard Teaster, entertained the guests.

5. Chancellor Mark A. Nordenberg presented Pitt's 2009 Legacy Laureates with their awards during an Oct. 22 dinner and reception. From left, Nordenberg; Legacy Laureate Wen-Ta Chiu; Juan Chiu, his wife; and Chingche Jason Chiu, their son, who is a student in Pitt’s Graduate School of Public Health. There was also a panel discussion among Legacy Laureates prior to the dinner. Pitt’s other 2009 Legacy Laureates are Charles I. Berlin, Christine L. Borgman, Anthony N. Civello, Frank B. Fuhrer Jr., Margaret Grey, Theresa A. Guise, John A. Jurenko, Richard B. Kelson, H. Lee Noble, James H. McCormick, and Hal K. Wrigley.

6. A group of AAAC members and supporters participated in the AAAC's annual community service effort, The Appleseed Project, and made a visit to Reizenstein Middle School in East Liberty. Among the adults who participated were Maurita Bryant (center with white tag), assistant chief of the Pittsburgh City Police; to the right of her, Debrah Walker, assistant to the dean in Pitt’s Office of Student Affairs; and to the right of Walker, Tina Spray Randall (EDS ’79, ‘BOG). In the back row, second from left, Pittsburgh Police Sgt. Amanda Aldridge; center back, retired Pittsburgh Police Detective Tyrone Dickey; and to the right of him, Tim Blackshear (A&S ’82).

7. Members of Pitt’s Kappa Alpha Psi Fraternity as well as other Black Greek organizations participated in the Oct. 23 Steppin’ Back in Time … Moving in the Future event in Alumni Hall.
Eva Tansky Blum, Toi Derricotte Named Distinguished Daughters of Pennsylvania

Pitt alumnus and trustee Eva Tansky Blum and noted poet, author, and Pitt Professor of English Toi Derricotte have been named Distinguished Daughters of Pennsylvania by Pennsylvania Governor Edward G. Rendell and First Lady Judge Marjorie Bennett Rendell. Blum and Derricotte were two of eight women recognized by the Rendells Oct. 21 as Distinguished Daughters of Pennsylvania for their contributions to a variety of fields.

Blum (A&S ’70, LAW ’73) is senior vice president and director of community affairs at PNC Bank and chair of the PNC Foundation. In this role, Blum directs the company’s philanthropic programs, including PNC Grow Up Great, a $100 million program that was launched in 2004 to support quality early-childhood education. Actively involved in her alma mater, Blum, who received the Pitt Volunteer of the Year award in 1990, is a member of the Pitt Board of Trustees’ Executive and Institutional Advancement committees, chairs the board’s Student Affairs Committee, and co-chairs Pitt’s $2 billion Building Our Future Together capital campaign, the most successful fundraising campaign in the history of both Pitt and Western Pennsylvania; to date, the campaign has raised more than $1.4 billion in support. She also serves on the Pitt School of Law Board of Visitors and is past president and a life member of the Pitt Alumni Association. She was one of 12 “Phenomenal (Pitt) Women” featured by Pitt Magazine in its Winter 2009 issue, was the 2001 recipient of the Carlow College Women of Spirit Award, was named in 1999 one of Pennsylvania’s Best 50 Women in Business by former Pennsylvania Governor Tom Ridge, and was honored with the YWCA Tribute to Women Award in 1998. A Pitt faculty member since 1998, Derricotte is co-founder and director of Cave Canem, the first workshop/recreation committee to the discovery and cultivation of new voices in African American poetry. She is the author of more than a thousand poems in published anthologies and journals as well as the books of poetry *The Empress of the Death House* (1978), *Natural Birth* (1985), *Captivity* (1989), and *Tender* (1997), winner of the 1998 Paterson Poetry Prize. Her literary memoir *The Black Notebooks: An Interior Journey* (1999) was a recipient of the 1998 Anisfield-Wolf Book Award and the Black Caucus of the American Library Association Nonfiction Award; was nominated for the PEN Martha Albrand Award for the Art of the Memoir; and was a *New York Times* Notable Book of the Year. She has sparked her passion for the development of the arts, two Pushcart Prizes, and the first Dudley Randall Award for National Contributions to Literature. Derricotte earned her BA degree in special education at Wayne State University in 1965 and the MA degree in English literature and creative writing at New York University in 1964.

“This year’s Distinguished Daughters of Pennsylvania have done extraordinary work in many different capacities,” the governor said. “Their contributions to Pennsylvania and the nation have benefited everything from academics to athletics, the arts to the military, as well as businesses and communities. I am grateful for the work that these women have done on our behalf to strengthen our state and the quality of life for so many residents.”

“It is a privilege to honor the dedication and commitment of these extraordinary women of Pennsylvania,” said Marjorie Rendell. “Their legacy of leadership is making a difference across the state.”

Mary Besterfield-Sacre and Joseph McCarthy, two professors in Pitt’s Swanson School of Engineering, are among 49 young engineering researchers and educators selected to present their novel approaches to engineering education at the National Academy of Engineering’s (NAE) inaugural Frontiers of Engineering Education (FOEE) symposium, scheduled for Nov. 15-18 in Herndon, VA.

Besterfield-Sacre, a professor in the Department of Industrial Engineering and Fulton C. Noss Faculty Fellow, will discuss her current project to develop a tool for evaluating team-based design processes and the factors that result in a quality design and prototype. Besterfield-Sacre has designed her project for four years while she is enrolled in the doctoral program. Bourbonnais’ (about $18,000 U.S.) per annum at Pitt. She will receive $20,000 Canadian for her research, which traces the history and evolution of family planning in the Caribbean. Bourbonnais, who received a bachelor’s degree in history from the University of British Columbia, studies Caribbean and Latin American history at Pitt. She will receive $20,000 Canadian (about $18,000 U.S.) per annum for four years while she is enrolled in the doctoral program. Bourbonnais’ experience as an intern for the Canadian High Commission in New Delhi sparked her interest in the region.
Concerts

Warsov Village Band, folk music from Poland, 7:30 p.m., Nov. 7, Sydell Hall, 125 N. Craig St., Oakland, Polish Cultural Council, 412-871-3347, www.polishculturalcouncil.org.


Mediterranean Nights: Salty Songs & Passionate Dances From Italy and Spain, musical performance by Apollo’s Fire, 8 p.m., Nov. 7, Sydell Hall, 125 N. Craig St., Oakland, Renaissance and Baroque Society of Pittsburgh, 412-361-2048, www.tgbp.org.


Miscellaneous

“Teaching,” part of workshop series to provide graduate and professional students, postdocs, residents, and junior faculty with training in professional development and ethics, 10 a.m. Nov. 7, Lecture Room 2, Scalise Hall, Survival Skills and Ethics Program, 412-578-3716, www.survival.pitt.edu.


Pitt PhD Dissertation Defenses
Jelene Valentin, Swanson School of Engineering’s Department of Bioengineering, “Macrophage Involvement in the Remodeling of an Extracellular Matrix Scaffold,” 10 a.m. Nov. 2, Conference Room A, Suite 300, Bridgeside Point Building 2, 450 Technology Dr., South Oakland.
Pitt-NIH Team Finds Way to Protect Healthy Cells From Dangerous Radiation Exposure

By Anita Srikameswaran

Researchers in the University of Pittsburgh School of Medicine and the National Cancer Institute (NCI), part of the National Institutes of Health (NIH), may be hot on the heels of a Holy Grail of cancer therapy: They have found a way to not only protect healthy tissue from the toxic effects of radiation treatment, but also increase tumor death. The findings appear in the Oct. 21 issue of Science Translational Medicine.

More than half of all cancer patients are treated at least in part with radiation, said study coauthor Jeff S. Isenberg, a professor in the Division of Pulmonary, Allergy, and Critical Care Medicine, Pitt School of Medicine. But the same radiation that kills cancer cells can also destroy healthy ones, causing side effects such as nausea and vomiting, skin sores and rashes, and weakness and fatigue. Long-term radiation exposure can lead to the scarring and death of normal tissue.

Isenberg and his NCI colleagues have identified a biochemical signaling pathway that can profoundly influence what happens to both cancerous and healthy cells when they are exposed to radiation. In mouse experiments, they found that blocking a molecule called thrombospondin-1 from binding to its cell surface receptor, called CD47, affords normal tissues nearly complete protection from both standard and very high doses of radiation.

“We almost couldn’t believe what we were seeing,” Isenberg said. “This dramatic protective effect occurred in skin, muscle, and bone marrow cells, which is very encouraging. Cells that might have died of radiation exposure remained viable and functional when pretreated with agents that interfere with the thrombospondin-1/CD47 pathway.”

There have been concerns that approaches to spare healthy cells will risk inadvertently protecting tumor cells, noted senior author David D. Roberts, chief of the biochemical pathology section, Laboratory of Pathology in the NCI’s Center for Cancer Research. But, he added, “In our experiments, suppression of CD47 robustly delayed the regrowth of tumors in radiation-treated mice.”

It’s not yet clear why disrupting the CD47 signaling pathway leads to these effects, the researchers said. It’s possible that radiation impairs the immune response to tumors even while killing tumor cells, but suppression of CD47 keeps the immune cells safe. Decreasing CD47 levels on tumor cells also could make them more sensitive to attack by the patient’s immune system after treatment. Or, suppression of injury to vascular cells might improve blood flow to allow naturally occurring antitumor immunity to reach cancer cells more easily.

The researchers are already exploring the signaling pathway’s role in several other domains, noted Mark Gladwin, chief of Pitt’s Division of Pulmonary, Allergy, and Critical Care Medicine and director of the Vascular Medicine Institute, where Isenberg is a principal investigator.

“He and his team are examining multiple disease treatment strategies for pulmonary hypertension, wound healing, sickle cell disease, and heart attacks, based on the blockade of the thrombospondin-1/CD47 pathway,” he said.

The research was funded by the Intramural Research Program of the National Cancer Institute, the Howard Hughes Medical Institute-NIH Research Scholars Program, and the NIH.