



DfA: The Permission to Design Fearlessly

The walls of the Design for America studio space are peppered with multi-colored, neon Post-it™ notes, which have been scribbled upon with fragments of thoughts and spontaneous bursts of inspiration. The four large round tables in the room are equally cluttered with everything from Lego™ blocks to toy cars to giant paper tablets. It is a playground for the creative mind, complete with the permission to experiment and to fail, which is exactly how Elizabeth Gerber, mechanical engineering, feels that product design should be approached.

“Typically design happens behind closed doors with management looking for solutions through the analysis of numbers and spreadsheets,” says Gerber who is affiliated with the Segal Design Institute. “But surveys and numbers can’t tell us how users experience the product.”

When Gerber created the concept of Design for America (DfA) earlier this year, she wanted the backbone to be human-centered design — a design philosophy that takes into account the needs, wants, and limitations of the user. She brainstormed that students could apply this idea to solving local community challenges by actively observing and interacting with their clients.

“I noticed that whenever student designers volunteered their assistance, they were going abroad to third world countries,” Gerber says. “That’s a great opportunity, but there are a lot of problems locally. I wondered what would happen if we worked with organizations in Chicago that don’t have the resources to hire design consultants.”

This summer the first group of DfA fellows spent six weeks on campus, divided into three groups to tackle three local issues. One group is working to improve hand hygiene in hospitals. The other two groups are working to improve programs for teens at the Oak Park YMCA and an after-school program in the Uptown neighborhood of Chicago called Alternatives.

“It’s amazing to me that a group of 14 students would volunteer to give up half of their summer to make an impact on the community,” says Katy Mess, design strategist for DfA. “They don’t receive a grade or school credit. The satisfaction comes from implementing something new, not from earning an ‘A.’”

The undergraduates, who are mostly freshmen and sophomores, not only gave up six weeks of summer but also found housing on their own. Gerber notes that a few of them were even temporarily sleeping on couches. They come from various disciplines, including economics, engineering, and global health. The main similarity that ties them together is their entrepreneurial spirit — an enthusiastic willingness to dig in and solve problems. **Continued >>**



Being ‘Handy’: DfA Summer Fellows (from left to right) Hannah Chung, Yuri Malina, Mert Iseri, and Katherine Porter have a brainstorming session at the Ford Design Center to find solutions for improving hand hygiene in hospitals. *Photograph used courtesy of Elizabeth Gerber*

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The group collectively entered a competition called Diabetes Mine, which called for ideas to improve life for people living with diabetes. The DfA fellows created an interactive stuffed-toy bear to help children understand the disease and won \$5,000 for most creative entry.

"After that, they were on fire," Gerber says.

But sometimes success takes more than one try. The group working to address hand hygiene designed a method for nurses to carry around hand sanitizer throughout the day to make hand washing more easily integrated into their routines. After presenting this solution to a group of nurses, the idea was quickly rejected.

"The nurses didn't want one more thing to carry around," says group member Mert Iseri, junior in industrial engineering and management sciences.

So the group returned to the drawing board and created a new product prototype called "My Wipe" — scrubs with hand sanitizer built into the pants with a protruding sponge on which to wipe hands. "You don't put the sanitizer in your pocket; you make it your pocket!" Iseri exclaims.

Gerber notes this is a great example of the human-centered design philosophy that she emphasizes because it integrates hand hygiene seamlessly into the everyday process. "One reason why some designs fail is because it's not a part of our normal routine. It's just one more thing that we have to do," she says.

Of course Gerber still has some questions for the "My Wipe," including how the scrubs will be washed at the end of the day. But with the permission to experiment and to fail, the DfA's first group of summer fellows will continue fearlessly to create and test new prototypes until the users are happy.

For more information about Design for America, visit the Segal Design Institute online at www.segal.northwestern.edu.

Teng-Leong Chew Named Director for University Imaging Resources

As Teng-Leong Chew, cell and molecular biology, breezes down the hallways of the Cellular Imaging Facility (CIF) in Morton Hall, it is obvious how much he loves his job as director. He's proudly decorated the walls with enlarged micrographs and journal covers, and he excitedly talks about the research projects that have come through the facility. He estimates there are 350 users per year from more than 250 labs, and he shows great care for them all.

It is this type of enthusiasm that led Chew (*pictured on the right*) to take on a new, additional position in Northwestern's core facilities; he started his role as the Director for University Imaging Resources on September 1 and will continue as director of CIF. Meanwhile, he also continues his own research into deciphering the endothelial signaling events that occur during cancer intravasation.

"It doesn't feel so busy because it's fun," Chew laughs. "The facility is truly a convergent point of many scientific research projects at the medical school, so I can be in the thick of everybody's experiments."

As director for University Imaging Resources, Chew is now the convergent point for imaging facilities on both campuses, including CIF, the Biological Imaging Facility (BIF), Center for Advanced Molecular Imaging (CAMI), Center for Advanced Magnetic Resonance Imaging (CAMRI), Cryo-electron Microscopy, Multiphoton Imaging, Northwestern University Atomic and Nanoscale Characterization Experimental (NUANCE) Center, and the Quantitative Bioelemental Imaging Core (QBIC).

In this new role, he is responsible for coordinating activities between imaging facilities as well as for overseeing an overarching strategic plan for imaging technology on both campuses. He also acts as a liaison between the Office for Research and imaging facility directors.

Chew says the American Recovery and Reinvestment Act (ARRA) created a sudden rush for grant efforts, which



Photograph by Amanda Morris

highlighted a need for better integration of the imaging facilities.

"The institution needed someone who could lead an imaging committee to filter all the various ideas, requests, and suggestions from researchers into a coherent plan," he says.

Chew will further unify the imaging facilities by creating a centralized vision that includes bringing together manufacturers and the scientific community, as he did at CIF. After becoming director of CIF in 2002, he increased the number of instruments from three to nearly 30. CIF became a site for instrument testing, culminating in the establishment of the Nikon Imaging Center in 2006, which is one of only eight in the world. He hopes to expand instrument testing to cover the other core facilities.

Chew will remain in his office in CIF with plans to spend two days a week in Evanston with an additional office to be located in Silverman Hall.

For more information about Northwestern's imaging facilities, please [click here](#).

A Unique Combination: The IBNAM Core Facilities

A normal day at the IBNAM cleanroom closely resembles a scene from a futuristic, science-fiction movie. Researchers glide along the tiled floors in white suits that cover their bodies from head to toe, complete with gloves, goggles, boots, and hoods. The room is bathed in an eerie, yellow light, which illuminates the microfabrication equipment lining the stark walls. But one doesn't need to venture all the way to a Hollywood movie set to observe this scene. IBNAM — the Institute for Bionanotechnology in Medicine — is located on the 11th floor of the Robert H. Lurie Comprehensive Cancer Center on the Chicago campus.

The cleanroom along with the chemistry core make up IBNAM's shared facilities, which work in conjunction to support projects that focus on translational technologies for regenerative medicine and targeted therapeutics. Someday these therapies may be used to repair damaged heart, brain, spinal cord, and eye tissue. Board of Trustees Professor of Materials Science, Chemistry and Medicine Samuel I. Stupp, director of IBNAM, says having these two cores under the same roof provides a unique combination.

"The cores at IBNAM were developed over the course of a few years and specifically designed around the research targets of the faculty here," Stupp says. "So they are flexible cores that are tailored for the research here and will continue to be enhanced as the research programs develop."

The strange white suits are typical of any cleanroom facility where the equipment is sensitive to environmental contamination. But Stupp says what is atypical about the cleanroom is that it houses equipment at the crossroads of microfabrication and advanced cell biology. This attracts faculty from several units across Weinberg, McCormick, and Feinberg.



Samuel I. Stupp (above) is director of IBNAM and professor of materials science and engineering and chemistry. His group is using the cleanroom to create "Cellular Wires," which are aligned heart and brain cells that transport electrical signals. He also uses the chemistry core to synthesize bio-active peptides.



Josh Goldberger, a postdoctoral researcher in the Stupp Group, uses a spin coater to coat a thin film of photoresist onto a silicon wafer in the IBNAM cleanroom core facility. The lighting is yellow/orange to prevent ultraviolet light from prematurely exposing the photoresist, which Goldberger compares to the exposure of undeveloped film in a camera. *Photograph used courtesy of Josh Goldberger*

"Everyone here has different backgrounds, from chemistry to materials science to the biological sciences," says Josh Goldberger, a postdoc who manages the cleanroom facilities and works on spinal cord regeneration. "Having a central facility that combines equipment traditionally used in these other disciplines opens up new avenues for research and gives us a much broader perspective than we would have in one department."

While the cores can support research separately, Stupp says that much of the work done in the cleanroom — including his own — uses peptides that are created in the chemistry core.

"A lot of medical departments here use peptides in their work, and we are able to custom make those here," says Andrew Cheetham, scientific director of the chemistry core. "We plan to expand to make more therapeutic peptides, so researchers won't have to visit outside medical sources for those."

The cleanroom, which opened at the beginning of summer, is continuing to grow in users. And, while Stupp says it is not yet fully equipped, he says they are working to acquire instruments gradually.

For more information about the IBNAM core facilities, please visit the website by [clicking here](#).

CSGID Determines the Structures of 100 Proteins

Investigators at the Center for Structural Genomics of Infectious Diseases (CSGID) determined their 100th pathogen protein structure since beginning in 2007. It was deposited into the Protein Data Bank (PDB) on August 5.

Led by Wayne Anderson, molecular pharmacology and biological chemistry, researchers at the CSGID use x-ray crystallography to examine the three-dimensional, atomic details of a proteins from major human pathogens, including anthrax, plague, and cholera. By determining the protein structures, scientists are able to pursue drug discovery, improved diagnostics, and vaccine development.

The Center works on proteins requested by investigators who need structural information to advance their research. Placing the structural results into the PDB, an international database, makes the results publically available

to the entire scientific community and creates opportunities for cross-disciplinary collaboration.

The 100 completed protein structures represent a selection of proteins with biomedical relevance and potential therapeutic benefits. Structures determined so far are *Salmonella enterica*, *Vibrio cholerae*, *Yersinia pestis*, *Staphylococcus aureus*, and *Bacillus anthracis*. The CSGID expects to determine approximately 100 protein structures per year for the next three years.

Funded by the National Institute of Allergy and Infectious Diseases, a part of the National Institutes of Health, the CSGID is a multi-institutional, international consortium of eight laboratories — six in the United States, one in Canada, and one in the United Kingdom. For more information, please visit www.csgid.org.



The 100th structure (pictured above) was a protein produced by *Bacillus anthracis* that is thought to be a major part of anthrax's resistance mechanism to aminoglycoside family of antibiotics. Image provided by Elisabetta Sabini, CSGID project manager

Two EES Graduate Students Receive IEEE Photonics Society Fellowships

Two electrical engineering and computer science graduate students in McCormick were among only four students nationwide to receive 2009 IEEE Photonics Society Graduate Student Fellowships.

Can Bayram (top, right) and Pierre-Yves Delaunay (bottom, right), both students in the lab of Manijeh Razeghi, electrical engineering and computer science, will receive the award, which comes with a \$5,000 honorarium, at the awards banquet at the Photonics Society 2009 Annual Meeting in Belek-Antalya, Turkey on Oct. 5.

The IEEE, a professional association for the advancement of technology, established the fellowship to provide outstanding society student members pursuing graduate education within the society field of interest (electro-optics, lasers, photonics, optics, or closely related fields).

Bayram conducts research in the area of wide bandgap semiconductor devices including III-N materials (AlGaInN) and II-VI materials (ZnO). His research

interests include semiconductor device design and simulation, material growth and characterization, device processing, packaging, and measurement.

Delaunay's research interests include type-II superlattices and focal plane array imaging.



Honors

Zdeněk P. Bažant, civil and environmental engineering, will receive the prestigious **Timoshenko Medal** from the American Society of Mechanical Engineers.

Nicole Immorlica, electrical engineering and computer science, was named a **2009 Microsoft Research New Faculty Fellow**.

Tobin J. Marks, chemistry and materials science and engineering, received the **2009 Von Hippel Award** from the Materials Research Society.

George C. Schatz, chemistry, received two honors from the American Chemical Society: The **Peter Debye Award in Physical Chemistry** and being named to the **inaugural class of ACS Fellows**.

Randall Snurr, chemical and biological engineering, was named the **Leibniz Professor** at the University of Leipzig for the summer 2009 semester.

A New School Year Brings New Changes for OR

Even for those of us who spent the summer on campus, September seems like a time of new beginnings. New faces. A new president. New opportunities for learning, sharing, and creating. The following article presents some of what's new in Northwestern's Office for Research, with links for more information.

New Centers

This fall, the Office for Research is opening three new University centers:

Center for Interdisciplinary Exploration and Research in Astrophysics, Vicky Kalogera, Dave Meyer, and Fred Rasio, co-directors. CIERA will pursue new astrophysics research directions, giving special emphasis to interdisciplinary connections with planetary science, computer science, applied math, chemistry, biology, electrical engineering, and materials science.

Center for Integrated Training in Far-From Equilibrium and Adaptive Materials, Bartosz Grzybowski, director, and Igal Szleifer, associate director. The new Center for Integrated Training in Far-From-Equilibrium and Adaptive Materials, funded as an Energy Frontier Research Center (EFRC) by the U.S. Department of Energy Office of Science, will focus on the synthesis, characterization, and understanding of new classes of materials under conditions far from equilibrium that are relevant to solar energy conversion, catalysis and storage of electricity and hydrogen. We'll let you know the new web site when it is up.

Center for Molecular Innovation and Drug Discovery, Karl Scheidt and Ray Bergan, directors. Expanding on the drug discovery work of the Center for Drug Discovery and Chemical Biology, directed by Linda Van Eldik and D. Martin Watterson, which concentrated on the translation of preclinical discoveries into clinical applications, CMIDD will focus on the creation and storage of novel molecular compounds.

When the Richard and Barbara Silverman Hall for Molecular Therapeutics and Diagnostics opens on the Evanston campus this fall, occupying the first and basement floors will be the **Chemistry of Life Processes Institute**, which will bring together interdisciplinary teams of scientists including chemists, biologists, computational scientists and engineers. A fundamental understanding of how molecules work in living cells and organisms — and relating that knowledge to advancing human health and treatment — drives the institute.

OR web site

The old joke goes that Chicago has only two seasons, winter and construction. Walk around either the Chicago or the Evanston campus and you'll come across any number of construction sites, where workers are frantically getting ready for the new academic year. Another area that has been under construction that isn't as visible is the Office for Research web site.

One new area is the **American Recovery and Reinvestment Awards** (ARRA) site. Also known as the stimulus package,

the ARRA has allocated billions of dollars for research as a strategic — and significant — investment in our country's future. Northwestern's awards are listed and described, and can be accessed by individual principal investigators, schools, and funding agencies. [Visit the site](#) to see the many innovative ways in which our tax dollars are being put to work to "lay the foundation for a robust and sustainable 21st century economy."

An **MTA or materials transfer agreement** is executed when proprietary materials are transferred in or out of Northwestern. Responsibility for MTAs has moved to the Office for Sponsored Research (OSR) and the forms are now available on the OSR web site.

The **National Science Foundation** publicizes research conducted by researchers funded by the agency. Click on the box on the Office for Research homepage to jump to a directory of articles about Northwestern researchers.

If you ever need a specific piece of research equipment and wonder if it's available somewhere on campus, visit the new **Shared and Core Facilities web site** to find out what's out there. Try out its new database of resources available to internal and external users, including equipment, services, products, and supplies.

Available electronically through Cognos, the InfoEd reporting tool, are status reports on Office for Sponsored Research **contract negotiations**. Choose GM054 for status and history of the contract negotiations between Northwestern and the sponsor for a particular proposal; GM055 for a list of proposals with all associated contract negotiations along with the most recent status, comment and comment date. Take a minute to check out all the other reports that are available through [Cognos](#).

Changes in ORD

The director of the Office of Research Development (ORD) will now report to Associate Vice President Linda Hicke instead of directly to Vice President Jay Walsh. The change comes as the previous director, Holly Falk-Krzesinski, transitions into her new full-time role as the director of the Office for Research Team Support at NUCATS.

Hicke says OR has started a national search for a new ORD director. "We are looking for someone who is passionate about research and has great skills putting together scientists from different backgrounds to create unique center and large grant proposals," she says.

In the meantime, questions and requests for support can be directed to Hicke at l-hicke@northwestern.edu. Alden Chang and Emily Heppard remain in ORD, and Rachael Basnett from McCormick will join the staff in early October. All three will work to ensure the department continues to move efficiently through the transition.

Faculty Notes

Mark J. Alberts, neurology, was the lead author of a study showing patients with vascular disease have a high rate of recurring events such as strokes, heart attacks, and hospitalizations as well as mortality. [Full Story](#)

A research team including **David Dunand** and **Katherine T. Faber**, both in materials science and engineering, completed the first comprehensive survey of the alloy composition of a large number of cast bronze sculptures by major European artists from the first half of the 20th century. [Full Story](#)

Brian Hitsman, preventive medicine, designed and published the first

comprehensive, evidence-based plan for mental health providers to help their patients quit smoking. [Full Story](#)

A team of researchers led by **Dean Ho**, biomedical engineering and mechanical engineering, has introduced the power of nanodiamonds as a novel gene delivery technology that has enhanced delivery efficiency and outstanding biocompatibility. [Full Story](#)

Jiaxing Huang, materials science and engineering, found that a flash from a camera can turn the insulating material of graphite oxide into graphene, which conducts electricity. [Full Story](#)

Yonggang Huang, civil and environmental engineering and mechanical engineering, worked with an interdisciplinary team to develop a new way of creating inorganic LED screens so they are smaller, flexible and less expensive to make. [Full Story](#)

Nina Kraus, communication sciences and neurobiology, conducted a study finding that musicians better understand speech in a noisy background. [Full Story](#)

Research led by **Richard I. Morimoto**, biochemistry, molecular biology and cell biology, shows that protein damage can be detected much earlier than previously thought, long

before individuals exhibit symptoms from age-associated diseases. [Full Story](#)

Peter Penzes, physiology, conducted new research revealing how schizophrenia works in the brain. [Full Story](#)

Paola Sapienza, finance, completed new research exploring the impact of testosterone on gender differences in financial risk-taking. [Full Story](#)

A study led by **Fred Turek**, neurobiology and physiology, found that eating at irregular times influences weight gain due to the regulation of energy by the body's circadian rhythms. [Full Story](#)

Northwestern Research In the News, Aug. 17 – Sept. 15

An article in the [Chicago Tribune](#) mentioned Northwestern as a "world leader" in nanotechnology.

Markus Bredel, neurological surgery, commented on the genetic makeup of brain tumors on [Voice of America](#) and [CBS News](#).

Alice Dreger, medical humanities and bioethics, commented on how to determine gender in [The New York Times](#), [USA Today](#), and [Chicago Tribune](#).

John Flaherty, medicine, discussed the swine flu in the [Chicago Tribune](#).

Brian Hitsman, preventive medicine, commented on smokers' genetic vulnerabilities in the [Chicago Tribune](#).

Dean Ho, biomedical engineering, and his research into delivering gene therapy through nanodiamonds were in [United Press International](#).

Jiaxing Huang, materials science and engineering, and his process to create graphene with the flash of a camera were mentioned in [Physics World](#).

An article by the [Associated Press](#) and [Chicago Public Radio](#) covered **Nina Kraus**, communication sciences and disorders, and her research about tone-deafness. Kraus and her research into musical training improving hearing was mentioned in [U.S. News & World Report](#).

Jay Lebow, psychology, commented on long-separated families on [CNN](#).

Douglas Losordo, medicine, discussed stem cell treatments in clinical trials in [U.S. News & World Report](#).

Fred Rasio, physics and astronomy, and his research into the tilting orbits of planets were discussed in [Science News](#).

Fred Turek, neurobiology and physiology, and his research into irregular eating times and weight gain were mentioned in [The New York Times](#), [HealthDay News](#), [The Telegraph](#), [LiveScience](#), [BBC](#), [Time](#), [Los Angeles Times](#), [Reuters](#), and [Chicago Tribune](#).

David Uttal, psychology, commented on humans' directional skills on [CNN](#).

Richard Van Duyne, chemistry, was mentioned in [Chemical and Engineering News](#) for using Raman spectroscopy to analyze artwork.

Lynne Wagner, psychiatry and behavioral sciences, commented on the personalization of cancer care in the [Chicago Tribune](#).

Katie Watson, medical humanities and bioethics, commented on pig-derived medical products in [The New York Times](#).

Science Café Schedule Set for 2009-10

Now that autumn has arrived, it's time to take science out of the lab and treat it to a nice night out on the town. The Northwestern chapter of Sigma Xi is kicking off another year of the [Science Café](#) — an informal forum for discussing scientific issues.

The Cafés start with a short talk from a research scientist followed by 30 minutes of questions and general discussion. Junior Science Cafés are also held and targeted toward an audience of students in middle school through high school.

Speakers and topics for September and October include:

Sept. 23 Science Café: "Modern Plagues: Pigs, Birds, and People" with Daniel Johnson, 6:15 p.m. at the [Firehouse Grill](#) in Evanston

Sept. 25 Junior Café 2: "Alien Visitors: Fact or Fiction?" with Mark Hammergren, 4 p.m. at the Evanston Public Library

Sept. 26 Junior Café: "Nanotech: Big Ideas from Small Ideas" with Mike Davis, 11 a.m. during a light lunch at the [Boocoo Cafe](#) in Evanston

For more events and information about the Science Café and Junior Science Café, please [click here](#).

Women's Health Conference in October

The Office of Research on Women's Health (ORWH) is hosting the fourth in a series of public hearings and scientific workshops to update the Women's Health Research Agenda at the National Institutes of Health (NIH). Scheduled for October 14 through 16, "Moving Into the Future: New Dimensions and Strategies for Women's Health Research for the NIH" will spur ideas and recommendations to help inform future women's health research priorities at the NIH.

Workshop discussions will focus on the following topics:

- Preventive health and special populations
- Clinical trials
- New technologies — bioengineering and imaging
- Genetics
- Sex hormones and disease
- Neuroscience
- Women in science careers

Sessions will be held at Thorne Auditorium, 375 East Chicago Ave. Working groups will be held at Wieboldt Hall, 339 East Chicago Ave. For more information, [please click here](#).

The conference is cohosted by the ORWH, Northwestern University, Feinberg School of Medicine, and Northwestern Memorial Hospital.

Training Calendar, Sept. 16 – Oct. 20

Evanston

Radiological Surveys by Laboratory Personnel
Wednesday, September 16, 1 – 2 p.m.
Wednesday, September 23, 1 – 2 p.m.

Emergency Management in Radiation Laboratories
Thursday, September 17, 1 – 2 p.m.

Incoming Graduate Student Laboratory Safety Training
Thursday, September 17, 9 a.m. – noon
Friday, September 18, 9 a.m. – noon

Advanced Laser Operator Training
Thursday, September 24, 1 – 2 p.m.

Hazardous Waste Management
Tuesday, October 6, 2 – 3 p.m.

Laboratory Safety and Personal Protective Equipment Training
Thursday, October 8, 2 – 3 p.m.

Bloodborne Pathogens Training
Tuesday, October 13, 10 – 11:30 a.m.

Safe Shipping of Biological Materials
Tuesday, October 13, 2 – 4:30 p.m.

Chicago

Radiological Emergency Management in Radiation Laboratories
Friday, September 18, 1 – 2 p.m.

Advanced Laser Operator Training
Friday, September 25, 1 – 2 p.m.

Hazardous Waste Management
Thursday, October 1, 2 – 3 p.m.

Laboratory Safety and Personal Protective Equipment Training
Thursday, October 1, 10:30 – 11:30 a.m.

Bloodborne Pathogens Training
Tuesday, October 20, 10 – 11:30 a.m.

Safe Shipping of Biological Materials
Tuesday, October 20, 2 – 4:30 p.m.

Chicago events will take place in the Montgomery Ward Building. Those listed in Evanston will be held in the Technological Institute. For a complete schedule of events and details, please visit www.research.northwestern.edu/events

CBC Introduces New Scholars Program

For nearly eight years the [Chicago Biomedical Consortium](#) (CBC) has been facilitating biomedical research partnerships between Northwestern, University of Illinois at Chicago (UIC), and University of Chicago. During this initial phase, however, the CBC did not have a formal program to assist collaborations between the students at each institution. But that is changing this fall as the group accepts its first class of CBC scholars from currently enrolled graduate students from the three CBC institutions.

This new program is designed to bring Chicago's brightest students together to interact with one another as well as CBC-affiliated faculty members.

"Last year our external advisory board was happy with how well we had been pulling collaborative research together," says Gene Webb, associate director of the CBC. "But they thought we could take it just a bit further and start reaching out to students."

Each of the three institutions have been asked to name three outstanding graduate students to the new two-year

CBC Scholars Program. The candidates are senior graduate students who have demonstrated great promise in research.

Webb says the new program has been designed to especially emphasize entrepreneurship in biomedicine. "We're hoping to find a group of students who can take their knowledge and research and apply it directly to help society," he says.

Each selected scholar will receive a grant of \$5,000 to be used for academically related purposes, including travel to conferences. Scholars will also meet multiple times per year for dinners organized by the CBC for the opportunity to network, give presentations, and hear from guest faculty members.

The first class of nine will begin meeting in October. A second class will be named in fall 2010. The CBC is generously supported by The Searle Funds at The Chicago Community Trust.

For questions or more information, please contact Gene Webb at g-webb@northwestern.edu.

Proposal and Award Reports

The total amount of award funding received this fiscal year through July 2009 is \$376.1 million, an increase of less than 1 percent (\$1.8 million) over July 2008.

The dollar volume of awards to Feinberg increased by 3 percent (\$6.0 million), while awards to the School of Communication grew by 22 percent (\$1.4 million). Weinberg awards reflected a decrease of 7 percent (\$3.5 million), while those to McCormick were down by 6 percent (\$2.9 million).

In July 2009, awards from industrial sponsors increased by 56 percent (\$23.4 million). Award activity from federal agencies decreased by 7 percent (\$19.1 million), while those from State of Illinois agencies also declined by 30 percent (\$2.3 million).

The dollar volume of proposals submitted to sponsors this fiscal year through July 2009 is \$2.0 billion, an increase of 25 percent (\$393.5 million) over July 2008, due largely to the influx of submissions to the National Institutes of Health for American Recovery and Reinvestment Act funding. McCormick proposals increased by 66 percent (\$150.1 million), while those from Feinberg rose by 14 percent (\$143.4 million). Submissions from Research Centers and Institutes and Research Operations also increased by 80 percent (\$68.4 million) and 10194 percent (\$35.7 million) respectively. Proposals from Weinberg grew by 11 percent (\$19.9 million). Proposal activity in SESP reflected a decrease of 53 percent (\$17.4 million).

In July 2009, the dollar volume of proposals submitted to Federal agencies increased by 30 percent (\$419.5 million), while those to U.S. State and Local government bodies grew by 487 percent (\$4.1 million). Proposals to voluntary health organizations reflected a decrease of 30 percent (\$23.4 million), while those to foundations were down by 10 percent (\$4.8 million). Proposals to State of Illinois agencies also decreased by 55 percent (\$3.6 million).

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