

UNIVERSITY OF PENNSYLVANIA *Almanac*

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\$10 Million from Annenberg Foundation for the Annenberg School's Project for Global Communication

Penn's Annenberg School for Communication will receive a \$10 million endowment from the Annenberg Foundation. The funding is in support of The Project for Global Communication Studies (PGCS), which was initiated in 2004 at the Annenberg School, to expand and coordinate its work in international, global and comparative communication research and studies.

"The University of Pennsylvania has become ever more committed to fostering exchanges of ideas among an internationally diverse community of scholars that lead to deeper understanding and effective solutions to the pressing global issues of our time," President Amy Gutmann said. "The Annenberg Foundation's ongoing support of communication research has propelled Penn to eminence in cross-cultural contacts and analysis. This extraordinarily generous gift from the Annenberg family will play an essential role in expanding our innovative work in global communication studies at the Annenberg School while also strengthening the University's global perspective."

The Project for Global Communication Studies conducts and facilitates research; coordinates faculty and student exchanges; organizes conferences; provides consulting and advisory assistance to academic, non-profit and governmental institutions; and builds formal and informal networks among individuals and organizations working in global communication. Particular emphasis is placed on understanding the

role of new information technologies and communication policies and practices in emerging and established democracies. PGCS also offers research and internship opportunities in cities across the world, including Beijing, Budapest, London, Oxford and Moscow.

"Once again the Annenberg School for Communication is deeply indebted to Mrs. Leonore Annenberg and the Annenberg Foundation for their generous support," Dean Michael X. Delli Carpini said. "Like most aspects of social life, understanding the impact of communication in the 21st century increasingly requires thinking globally. My goal is nothing short of making the Annenberg School a world leader in teaching and research in this emerging field. The Annenberg family has given us the opportunity to make this a reality."

"With this gift," PGCS Director Dr. Monroe Price said, "we can deepen and broaden our vision. Each day, a hundred times, we see the importance of media systems and communication policy. Political processes, individual dreams, the growth of trade—all of these are tied inextricably to global communication."

The Annenberg Foundation is a private foundation established in 1989. It exists to advance the public well-being through improved communication. As the principal means of achieving its goal, the Foundation encourages the development of more effective ways to share ideas and knowledge.

Penn's Way 2006 Compassion in Action: \$515,418

To the Penn Community:

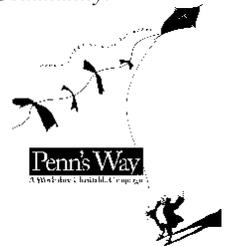
The Penn's Way 2006 Campaign kicked off this past October with a very ambitious goal. Our goal was to raise a half a million dollars. Not an easy task, particularly in light of the competing philanthropic giving targeted toward Hurricane Katrina and other large scale disasters. We felt that it was important to build upon the momentum gained from last year's effort. We also felt confident in our knowledge of the Penn community's compassion for the well-being of its community and citizens across the country. Therefore the decision to set our goal at half a million was an easy one. We are very pleased to announce that because of your efforts we have collected a total of \$515,418. Compassion in Action indeed!

Because of you, many of the people who are facing arduous days today will be facing brighter ones tomorrow. Because of you, hardships will be turned to hope. We are so proud to see you show such deep compassion toward our most vulnerable fellow human beings, and we know your commitment will not subside.

We especially applaud the hard work and enthusiasm of the many individual volunteers who served as Volunteer Coordinators, and appreciate the support of several departments: *Almanac*, Business Services, Computer Connection, Creative Communications, Division of Public Safety, ISC, Penn Athletics, Mail Services, Payroll, University's Travel Office and VPUL.

On behalf of our charitable partner organizations and the people in our region who they serve, our deepest thanks to everyone who made Penn's Way 2006 another remarkable success.

—Maureen Rush,
Vice President for Public Safety
Penn's Way 2006 Campaign Co-Chair
—Neville Strumpf,
Edith Clemmer Steinbright Professor in
Gerontology, Chair of the Faculty Senate
Penn's Way 2006 Campaign Co-Chair



Innovation in Action: Impact of Federally Funded Research



Brett Kutscher, an engineering grad student, holds the RiSE robot.

On February 1, the University of Pennsylvania and its Office of Government and Community Affairs co-hosted a reception and exhibition at the Rayburn House Office Building in Washington, D.C. entitled "Innovation in Action" for members of Congress and their staff. As an example of universities working together, Penn was joined by Carnegie Mellon University, Penn State University, and the University of Pittsburgh in demonstrating the substantial

(continued on page 2)



RHEx, a six-legged, hyper-energized robot on display on Capitol Hill in D.C. was developed by Dr. Dan Koditschek, the Alfred Filtler Moore Professor of Electrical and Systems Engineering.

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Trustees' Winter Full Board Meetings: February 23-24

The Winter Meetings of the University's Trustees will be held February 23-24, 2006 at the Inn at Penn.

Thursday, February 23

- 10:15-11:45 a.m., Facilities & Campus Planning Committee, Woodlands AB
- 2:15-3:45 p.m., Student Life Committee, Woodlands CD
- 2:15-3:45 p.m., Neighborhood Initiatives Committee, Thomas Webb Richards Suite
- 4-5:30 p.m., Budget & Finance Committee, Woodlands AB
- 4-5:30 p.m., External Affairs Committee, Woodlands CD
- 4-5:30 p.m., Academic Policy Committee, St. Marks

Friday, February 24

- 11:30 a.m.-12:30 p.m., Stated Meeting of the Trustees, Woodlands ABCD
- 12:30-1 p.m., Memorial for Michael 'Mickey' Tarnopol, Woodlands ABCD (see page 3)

These meetings are open to observers under the "Sunshine Law." Members of the University may register their interest in attending, with the Office of the Secretary, (215) 898-7005.

25-Year Club's Golden Jubilee

The Golden Jubilee 50th Anniversary of the celebration of those who have served the University of Pennsylvania more than 25 years is scheduled for Wednesday, October 4, 2006 at 5 p.m. in Houston Hall. The 25-Year Club celebration will be chaired by Dr. Lance Donaldson-Evans, professor of Romance Languages (French) and past chair of the Faculty Senate.

Please e-mail or call Lynn Costello (costello@econ.upenn.edu or 8-7702) or Regina Forlano (rforlano@sas.upenn.edu or 8-4781) or Duncan W. Van Dusen (vandusen@pobox.upenn.edu or 3-5958) with any questions.

Corrections:

In last week's issue, Mrs. Annenberg's first name was misspelled; it is *Leonore*. Also, in the Campus Development Plan, the membership of the Trustees Ad Hoc Committee on Campus Development included the name of a trustee who is not on the committee (Paul Kelly) and omitted one who is (*David Silfen*). The Campus Development Plan 2006 Interim Report is available online as a PDF at www.upenn.edu/almanac/volumes/v52/n21/acrobat.html.

We regret the errors. —Eds.

Informed Consent Language Library

Correction: In an effort to clarify a statement we published in the January 17 issue, the language contained in the IC Library should not be considered "approveable" by the IRB. The release should have stated that, "The IC Library was developed to assist investigators meet Federal regulations on human research protections which require consent documents to be written in language that is understandable to the prospective research subject. While the library is seen by the School of Medicine as a valuable resource that may help an investigator improve the readability of the informed consent document, the IRB may still exercise its authority to require changes to the informed consent document." —Office of Human Research

Course Problem Notices (CPN) on Courses InTouch (CIT)

Message to Faculty:

We are about to launch a new online application, Courses InTouch (CIT), for faculty and teaching assistants. Through Courses InTouch, faculty will be able to access their class lists and a new feature, the Course Problem Notice (CPN). The Institutional Research Query Database (IRQDB) Classlist currently used in SAS, SEAS and Nursing, with or without photos, will transition to CIT to ensure just one point of entry for this course and student information. For users of other systems, including Wharton faculty, the CIT class list function is another option and provides the point of entry to the Course Problem Notice function. The new system will be launched on February 27.

The CPN replaces the paper and mid-semester warning notices currently in use, and will perform the same function much more efficiently. The goal of this new application is to alert students to academic concerns when they first occur, rather than later in the semester, when it is often too late for the student to rectify the problem. If, for example, a student misses several classes or does poorly on the first midterm, the instructor can select the student(s) in question from the electronic class list, choose the appropriate problem items from a list of options, or choose "other" and write out the exact problem. An e-mail notification will automatically be sent to the student and to his or her School office; an advisor from the School office will follow up if the student either ignores the warning or has multiple warnings in a range of courses. The instructor can also use this notice to advise the student on appropriate follow-up (for example, "see an advisor," or "see the TA"). The system is simple to use and is accessible through the U@Penn portal, in the section labeled Student Advising Resources.

I hope this system will encourage more instructors to notify students about academic problems as soon as they occur, so that students can take immediate steps to correct them and receive the appropriate assistance in dealing with them.

—Janice R. Bellace, Deputy Provost

Innovation in Action (continued from page 1)

impact that federally funded research has on the Commonwealth.

The event showcased important and exciting innovations developed at these four Association of American Universities (AAU) institutions through federally funded research. Pennsylvania Congressmen Charlie Dent, Don Sherwood and John Peterson attended the event, as did staff from the entire Pennsylvania delegation. In addition, both Pennsylvania Senator Arlen Specter and Dr. Arden Bement, director of the National Science Foundation, spoke to the gathering regarding the important societal impact of Pennsylvania's prominent research universities. The event also featured remarks by Dr. Joseph Bordogna, Alfred Fitler Moore Professor of Engineering, and Dr. Steven Fluharty, Associate Vice Provost of Research, on behalf of Penn.

The first of two displays from Penn included the eye-catching, energy-generating backpack from the laboratory of Dr. Lawrence Rome, professor of biology, who developed it as a byproduct to his studies of muscle movement. The backpack can generate seven watts of electricity, allowing its carrier to power several devices at once. Penn's exhibit also featured robots from the lab of Dr. Dan Koditschek, the Alfred Fitler Moore Professor of Electrical and Systems Engineering. The six-legged, hyper-energized robot RHex could be seen scampering around the Rayburn Foyer and climbing stairs with a few of the congressional representatives at the controls. Another robot named RiSE was also exhibited climbing walls. The work of both researchers has tremendous potential for search and rescue operations and military applications.

Through this event, policy makers were afforded a first-hand example of the cutting edge research and technology development that is occurring on campuses in the Commonwealth and is supported by the federal investment in university-based research. Further, it provided the attendees with a demonstration of how this investment supports the health, safety and prosperity of the nation and strengthens the United States' innovation and competitiveness.



Representatives of Penn's research contingent in attendance at the recent Innovation in Action: (left to right) Haldun Komsuoglu, postdoctoral fellow, SEAS, department of electrical and systems engineering; Andy Mead, graduate student of physiology, SAS, department of biology; Dr. Lawrence Rome, SAS, professor of biology; Louis Flynn, laboratory engineer, SAS, department of biology.

Deaths

Dr. Goldberg, GSE



Steven Goldberg

Dr. Steven S. Goldberg, former adjunct professor of education, died of esophageal cancer February 1 at the age of 56.

A native of Brooklyn, NY, Dr. Goldberg received his bachelor's degree from State University of New York in Binghamton, a master's degree in politics and education from

Columbia University, and a J.D. from Brooklyn Law School. In 1985, he earned a Ph.D. in educational policy from Penn.

Dr. Goldberg specialized in education and law. He was a professor of education and the Coordinator of the Educational Leadership Program at Arcadia University. In addition to teaching at Arcadia, Dr. Goldberg became a lecturer in Penn's Graduate School of Education in 1990. He held this position until 2004. Dr. Goldberg also held teaching positions at Rutgers University Law School and the University of North Dakota. In the late 1970s, he served as a lawyer for the Education Law Center in Philadelphia and recently served on the board of the Education Law Association.

Dr. Goldberg's other interests were negotiation and mediation in education and his work has been published in various law journals. His books include *Special Education Law* and *A Digest of Supreme Court Cases in Education*.

Dr. Goldberg is survived by his wife, Jolley Bruce Christman; stepchildren, Katherine, Sarah and Andrew; a brother; and a grandson.

Memorial for Mickey Tarnopol

The Trustees of the University will hold a memorial service for former Charter Trustee, Board Vice Chair, and Wharton Overseer Michael L. "Mickey" Tarnopol, W '58, at the close of their Stated Meeting at 12:30 p.m. on Friday, February 24, in the Woodlands Ballroom of the Inn at Penn.

Mr. Tarnopol died on May 23, 2005 at the age of 68 (*Almanac* July 12, 2005).

Members of the University community who would like to honor Mr. Tarnopol's memory and recognize his outstanding service to Penn over many years are invited to attend. Please RSVP to Sarah Golding, at acta@pobox.upenn.edu by February 21.

To Report A Death

Almanac appreciates being informed of the deaths of current and former faculty and staff members, students and other members of the University community.

However, notices of alumni deaths should be directed to the Alumni Records Office at Room 545, Franklin Building, (215) 898-8136 or send via e-mail record@ben.dev.upenn.edu.

Dr. Mayock, Pioneer in Pulmonary Medicine



Robert Mayock

Dr. Robert L. Mayock, considered the "Father of Pulmonary Medicine at Penn," and emeritus professor of medicine and former chief of the pulmonary disease section, died of Parkinson's Disease on January 30 at the age of 89.

Dr. Mayock founded the modern Pulmonary Division in 1955 at HUP, one of the first in the U.S.

Dr. Mayock trained more than 180 pulmonary physicians during his career, many of whom are today's leaders in the field of academic and clinical pulmonary medicine. "To the generations of pulmonary specialists he has taught and inspired at Penn, Bob Mayock is the prototypical gentleman physician—caring, dedicated and compassionate. His style of practice became a model for what our division is today," said Dr. John Hansen-Flaschen, chief of the Pulmonary, Allergy & Critical Care Division at Penn, and former student of Dr. Mayock.

Dr. Mayock graduated from Bucknell in 1938 with a bachelor's degree in biology. In 1942, he earned his medical degree at Penn.

Dr. Mayock's medical career started off remarkably. In 1942, as a medical student, he contracted tuberculosis (TB). Ultimately, he survived and became immune to it, and went on to treat others who contracted it. After completing his residency at Penn, Dr. Mayock began teaching at Penn in 1946, serving as an instructor for five years until he was appointed assistant professor of clinical medicine in 1951. He was promoted to associate professor of clinical medicine in 1959 and later promoted to professor of medicine in 1970.

While serving in the Army from 1952-1954 and caring for soldiers who returned from the Korean War with TB, Dr. Mayock brought his unique experience with TB to the Penn campus. Along with renowned physician and scientist Dr. Julius Comroe, Jr., Dr. Mayock also established one of the first two-year fellowship training programs in pulmonary medicine at HUP, which became the model in other academic medical centers.

He also served as Chief at the Philadelphia General Hospital where, in 1955, he founded the School of Respiratory Therapy—the first of its kind in the U.S. Even after becoming an emeritus professor of medicine, he remained active on campus for years. Overall, his career spanned more than 50 years in the Penn community. He retired from medical practice in 1987 and from teaching in 1997.

During his career, he published extensively. Of all his original papers, his article published in 1963 on the "Manifestations of Sarcoidosis" has been one of the most quoted articles on this disease in medical literature. Dr. Mayock is credited with writing the classic clinical description of sarcoidosis.

Dr. Mayock was active in many professional organizations including the American Board of Internal Medicine, American College of Chest Physicians, the Laennec Society of Philadelphia, the American Lung Association (ALA),

and served as the Chairman of the American Thoracic Society. Dr. Mayock also led the effort to remove all cigarette vending machines inside HUP and helped the ALA in its push for a "smoke free" society.

Dr. Mayock's legacy will live on through a professorship and teaching award at Penn, as well as a lecture series established by the Pennsylvania Thoracic Society which all bear his name.

In addition to his wife, Connie, he is survived by his sons, Robert L. Jr. and Stephen P.; daughter, Holly M. Luff; and five grandchildren.

A memorial service will be held at 5 p.m. on February 28 at the Merion Cricket Club in Haverford, PA.

Memorial donations payable to Trustees of the University of Pennsylvania may be sent to the Pulmonary Division, HUP, c/o John Hansen-Flaschen, MD, 873 Maloney Building, 3400 Spruce Street, Philadelphia, PA 19104.

Dr. Mozaffari, Oral Medicine



Eisa Mozaffari

Dr. Eisa Mozaffari, clinical assistant professor of oral medicine in the Dental School, died January 7, only a few weeks after being diagnosed with leukemia. He was 53.

Dr. Mozaffari was born in Fassa, Iran. His family moved to the city of Shiraz where he completed his elementary and high school education.

He earned his doctor of dental medicine degree with honors from the Shiraz University School of Dental Medicine.

Based on his outstanding achievements, he was selected the recipient of a prestigious fellowship to pursue his post-graduate training at Penn's School of Dental Medicine. While at Penn, he completed his general practice residency and dental education, specializing in oral and maxillofacial radiology. In 1980, he returned to his alma mater, Shiraz University where he rose up through the academic ranks, ultimately becoming dean of the dental school. In this position, he played a critical role in the development of advanced educational programs at the School of Dental Medicine.

He returned to Penn in 1999 and joined the faculty of the department of oral medicine, recently serving as director of the Oral and Maxillofacial Radiology Clinic.

Throughout his career, Dr. Mozaffari distinguished himself as a devoted and skillful teacher and practitioner. He was an ardent student advocate and mentor who was inspired by the intellect and talent of his students. He worked tirelessly to prepare his lectures emphasizing contents that would captivate and challenge his students. "All who knew him were touched by his gentleness, his dignity, and his commitment to the things he loved in life. His passion for his family, work, and students is exemplary and will never be forgotten," a colleague said.

Dr. Mozaffari is survived by his wife, Mina; son, Reza; daughter, Raha; his mother; one brother and five sisters. Donations in his memory may be made to the American Cancer Society, 1615 West Chester Pike, Suite 102, West Chester, PA 19382.

The Provost's Award for Distinguished Ph.D. Teaching and Mentoring was established in 2003-04. Designed specifically to honor faculty who mentor Ph.D. students, this prize is intended to underscore the University's strategic emphasis on graduate education, by celebrating the accomplishments of faculty who show special distinction in doctoral education.

—Janice R. Bellace, Deputy Provost

Provost's Award for Distinguished Ph.D. Teaching and Mentoring: February 24

The Provost's Award for Distinguished Ph.D. Teaching and Mentoring recognizes excellence in the teaching and mentoring of doctoral students. The award is presented to two outstanding faculty members each year for their exemplary work in training the next generation of scholars. Eligible faculty may be nominated by any Penn faculty member or Ph.D. student. Successful candidates must be members of the standing or associated faculty in any school offering the Ph.D.

Candidates will be evaluated on the basis of letters of recommendation from past and present graduate students, from other University colleagues, and from the wider research community. Among the qualities the selection committee will consider are:

- Distinguished research in one's own field.
- Success in collaborating on doctoral committees and graduate groups.
- An ability to attract outstanding doctoral students.

- A record of successful doctoral placements.

Superior teaching and mentoring skills will emerge differently in different settings. Examples of the sorts of activities that the review will consider include the effective supervision of graduate student research; the skillful direction of dissertation students; a proven talent for mentoring teaching assistants; and the skillful art of leading seminars and facilitating discussions.

Recipients will receive a monetary award and University recognition during a public ceremony. Nominations should be sent to Ms. Karen Lawrence, 122 College Hall/6303, lawrence@pobox.upenn.edu by no later than *February 24, 2006*. A nomination may be made by a student or faculty member. Since complete dossiers will follow, all that is required for nomination is a relatively brief statement of support for the candidate. Department chairs will be notified of nominees and invited to submit a complete dossier no later than March 22, 2006.

CCP Course Development Grants: March 31

The Center for Community Partnerships announces course development grants to promote Academically Based Community Service (ABCS) courses that integrate research, teaching, learning and service. Over 150 courses from a wide range of disciplines and Penn schools have linked Penn undergraduate and graduate students to work in the community. The grants support University faculty to develop new courses or adapt existing courses that combine research with school and community projects (see www.upenn.edu/ccp/ for a list of ABCS courses).

Proposals should be submitted by faculty to one of the two programs listed below. The proposal format and deadline is identical for both programs (see below). A particular proposal can be submitted to only one program, but faculty can submit more than one proposal. Information is provided below to help applicants judge which program provides the best fit for the proposed course. If you have further questions about matching your proposal to one of the programs, please contact Katie Ziemba at ziemba@sas.upenn.edu. Grants will be for no more than \$4,000 per project. These funds can be used to provide graduate and undergraduate support, course support and/or summer salary (\$4,000 is inclusive of E.B. if taken as salary).

The programs are:

1. STEM: Science, Technology, Engineering and Math Partnerships
2. Center for Community Partnerships Course Development Program

1. STEM: Science, Technology, Engineering and Math Partnerships: The Access Science program, funded by the National Science Foundation, engages math, science and engineering undergraduate and graduate students in developing and implementing hands on and inquiry-based math and science in West Philadelphia classrooms.

- *Dennis DeTurck, Principal Investigator, Professor, Mathematics Department, Dean of the College of Arts and Sciences*
- *Christine Massey, Director, Pre-College Research and Education and PENNLincs, Institute for Research in Cognitive Science*
- *Cory Bowman, Associate Director, Center for Community Partnerships*

2. Center for Community Partnerships Course Development Program: Funded by the Center for Community Partnerships, this program will allow faculty to develop new and substantially restructured undergraduate and graduate level courses that engage students in real world problem-solving projects in conjunction with schools and community organizations located in West Philadelphia.

- *Dennis DeTurck, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Professor, Mathematics Department, Dean of the College of Arts and Sciences*
- *Ira Harkavy, Associate Vice President and Director, Center for Community Partnerships*
- *Bernett L. Johnson, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Senior Medical Officer HUP, Senior Associate Dean of Community Outreach and Diversity*
- *Francis E. Johnston, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Professor Emeritus, Anthropology Department*
- *Albert J. Stunkard, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Professor Emeritus, Psychiatry Department*

The criteria and format for submitting proposals to both of the programs are:

Criteria:

1. Academic excellence
2. Integration of research, teaching and service
3. Partnership with schools, community groups, service agencies, etc.
4. Focus on Philadelphia, especially West Philadelphia
5. Evidence as to how the course activity will involve participation or interaction with the community as well as contribute to improving the community
6. Evidence as to how the course activity will engage undergraduate and/or graduate students in real-world problem-solving research opportunities
7. Potential for sustainability

Format:

1. Cover Page
 - 1.1 Name, title, department, school, mailing address
 - 1.2 Title of the proposal
 - 1.3 Amount requested
 - 1.4 Specific program to which you are applying
 - 1.5 100-word abstract of the proposal (include a description of how the course will involve interaction with the community and benefit the community)
2. A one-page biographical sketch of applicant
3. A two-to-four-page mini-proposal
4. Amount of the request and budget

An original and five copies of the proposal should be submitted to the Center for Community Partnerships, 133 S. 36th Street, Suite 519, Philadelphia, PA 19104-3246. Alternatively, you can e-mail the proposal to Katie Ziemba at ziemba@sas.upenn.edu. The due date for both programs is *Friday, March 31, 2006*.

—*Dennis DeTurck, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Dean of the College*

—*Ira Harkavy, Associate Vice President and Director, Center for Community Partnerships*

—*Bernett L. Johnson, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Senior Medical Officer HUP, Senior Associate Dean of Community Outreach and Diversity*

—*Francis E. Johnston, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Professor Emeritus, Anthropology Department*

—*Albert J. Stunkard, Co-Chair, Faculty Advisory Board, Center for Community Partnerships, Professor of Psychiatry*

\$1 Million from Howard Hughes Medical Institute for Clinical Imaging Training Program

The School of Medicine received \$1 million from the Howard Hughes Medical Institute (HHMI) to establish an integrated graduate training program in clinical imaging and information sciences. HHMI is partnering with the National Institutes of Health's National Institute of Biomedical Imaging and Bioengineering (NIBIB) in this effort.

Penn's grant was one of 10 awarded by the HHMI-NIBIB Interfaces Program to set up interdisciplinary graduate education programs. The three-year, \$1 million grants will be used to develop innovative programs designed to produce a cadre of scientists with the knowledge and skills to conduct research at the interface of biomedical, clinical, physical, engineering, and computational sciences. The 10 recipients of the HHMI awards were chosen from 132 applicants.

The department of radiology is providing additional funds to hire two new faculty members to support the program. By the end of the three-year development period, 10 new Ph.D. students, designated "HHMI Trainees," will be enrolled in the program, notes Program Director Dr. Peter F. Davies, director of the Institute for Medicine and Engineering (IME), who led the initiative. "This is a good example of the role of an inter-School Institute in creating synergy among multiple departments in SOM, SEAS and SAS."

The imaging sciences are well established at Penn, within multiple schools and academic departments, but no formal integration of efforts in graduate training existed prior to this program award. Through this grant, Penn will recruit graduates in engineering, physics, chemistry, applied mathematics, and computer science who want to learn clinical skills, and those in biological sciences with strong quantitative skills.

"We're extremely excited about this opportunity," said Dr. Nick Bryan, chair of the radiology department. "The ability for this initiative to cross schools is critical for the type of research and education that this program will stimulate."

IME is coordinating the new program, working closely with the department of radiology, and coordinating with the departments of bioengineering, chemistry, physics, mathematics, and the basic science departments in the School of Medicine. "We've purposely cast our net wide because we want to bring basic scientists—physicists, applied mathematicians, biophysicists, and fundamental biomedical researchers—together to address imaging research in a clinical context," says Dr. Davies. "The innovation is that trainees will get a Ph.D. in clinical imaging and informational sciences, which will be a thorough grounding in the fundamental science of imaging, but be closely integrated with clinical medicine."



Peter Davies



James Gee



Andrew Maidment

The Ph.D. program is unique in that students will complete many of the classes in the School of Medicine curriculum. The program is set to recruit five students at the end of the second year of the grant to start in the fall of 2007 and an additional five at the end of the third year of the grant in 2008. The grant began January 1, 2006.

"The main focus of these HHMI grants is to facilitate new interdisciplinary programs in cutting edge areas for which there are currently no coordinated training opportunities," says Dr. James Gee, associate professor of radiologic science, and a co-principal investigator of the program along with Dr. Andrew Maidment, assistant professor of radiology. "Imaging science has traditionally been developed in a variety of disciplines and has allowed important advances to be made in many fields, including medicine. Further progress, however, demands programs that treat biomedical imaging science as a discipline in its own right in the same way that computer science has emerged as a primary discipline in the applied sciences. Our students will graduate as medical scientists, but their primary focus will be developing and using imaging as their primary tool. It is critical that the students come away with the clinical and basic medical perspective needed to develop new methods for detecting, diagnosing, and treating disease."

HHMI and NIBIB will work together to ensure sustaining support beyond the start-up funds for the new programs. Following a second competition to ensure that the HHMI-funded recipients achieved their original goals, the NIBIB will support the second phase of this program through five-year training grants. The overall program is aimed at sustaining interdisciplinary graduate education.

PennAEs: New Tracking/Reporting Function Now Available

The Penn Human Subjects Adverse Events Reporting System (PennAEs) was enhanced as of February 8, 2006 to enable tracking/reporting on unanticipated problems posing risk to subjects or others. PennAEs is a web-based application that has been used extensively by researchers at Penn to track and collect adverse events in clinical trials and report on serious adverse events involving human subjects to the Institutional Review Boards (IRB). The new functionality will allow Principal Investigators to electronically submit reports involving risks to participants or others to the IRB. Such unanticipated events, problems, or effects on human subjects that may change the weight or the interpretation of the risks of a research study must be reported to the IRB as soon as they are identified, and the newly enhanced PennAEs system will better allow users to meet this reporting requirement.

What are unanticipated problems?

- Unanticipated problems involve risks to participants or others and
- Refer to untoward or unanticipated events or new findings involving any aspect of a research study
 - Are events involving anyone, including participants, research staff, or others not directly involved in the research
 - Are always unanticipated by definition and the risks not discussed in the research protocol
 - Can occur in either clinical or social and behavioral research, whether exempt, expedited, or full board review
 - Require prompt reporting to the IRB, appropriate institutional officials, and the Department or Agency head if funded.

The ability to electronically track and submit reports of unanticipated problems to the IRB will facilitate reporting, meet regulatory requirements, and replace the manual process that is currently in place. In addition, it will assist investigators in handling the outcome of such events.

Access

Access to the unanticipated problems tracking/reporting function is via an additional button on the opening screen of the PennAEs application. Existing users will log on to PennAEs as usual, authenticating with their PennKey ID and password before accessing the system with a standard web browser. New users who are not Principal Investigators who require access to PennAEs (data coordinators for example) will need to complete and submit a PennAEs Access Request Form located on the web at www.finance.upenn.edu/ftd/weblearn/PennAEs/pdf/pennae_access1.pdf.

Online Reference Materials

Updated reference materials, including a user guide and a glossary of terms, are available from the PennAEs online help site at www.finance.upenn.edu/ftd/weblearn/PennAEs/.

More Information

For more information about PennAEs, contact pennaes@pobox.upenn.edu or visit the PennAEs online help site at www.finance.upenn.edu/ftd/weblearn/PennAEs/.

—Robin H. Beck,
Vice President of Information Systems and Computing

—Andrew B. Rudczynski, Executive Director of Research Services and Associate Vice President of Finance

—Joseph R. Sherwin, Director of the Office of Regulatory Affairs

Closing of Walkway Near the Newly Erected Veterinary School Building

Please follow the pedestrian detour signs. For everyone's safety we do not want to see pedestrians walking in the traffic lanes along Baltimore Ave.

From now until August, 3800 Woodland Walk—the walkway between the new Veterinary School building and the existing buildings—will be closed from 38th Street to 39th Street in order to complete construction of the bridge connecting the new building with the rest of the complex and to finish exterior construction in that area.

No pedestrian traffic will be allowed in that area. Since there is not enough roadway for a pedestrian walkway along the 3800 block of Baltimore, signs will also be placed at 39th and Pine telling all pedestrians to cross at the light at 39th and Baltimore/Woodland and use the sidewalk on the VA Hospital side. Pedestrians can then cross at 38th and Baltimore to get to eastbound Hamilton and Woodland Walks. Another suggested walking route would be to go the 3900 block of Pine, walk through the small park adjacent to the Veterinary Hospital, go north through the driveway from the hospital entrance and onto Spruce Street.

—Captain Joseph D. Fischer, Commanding Officer-Patrol Division, UPPD

Celebrating Ben Franklin's Tercentenary: 'Worlds of Learning'

The Penn Library marks Benjamin Franklin's 300th birthday with an exhibit on the history of Philadelphia-area schools—*Educating the Youth of Pennsylvania: Worlds of Learning in the Age of Franklin*. Organized by Rare Book and Manuscript, the exhibit is on view now through May 31, in the Rosenwald Gallery, 6th floor, Van Pelt-Dietrich Library.

In 1749, Benjamin Franklin published his educational call to arms, *Proposals Relating to the Education of Youth in Pensilvania* (*Almanac* January 24, 2006). In it, Franklin set forth a radically new template for educating students, one that stressed social utility, secular independence, and an English language-based curriculum. This slim pamphlet led to the creation of the University of Pennsylvania, the fourth oldest institution of higher education in North America.

But what were schools like in the early Delaware Valley? Who received an education, how, and where? Who were the teachers, and what was taught? Drawing on the collections of the Penn Library, the Historical Society of Pennsylvania, and other Philadelphia-area libraries, museums, and schools, this exhibit surveys the educational landscape of the period and investigates the importance, originality, and ongoing relevance of Franklin's vision. It includes original documents, printed books, and artifacts, as well as photographs of surviving school buildings. The exhibit is accompanied by a multi-media website (<http://benjaminfranklin300.library.upenn.edu/>), a printed catalogue, and a series of public programs on the history and present state of education in America.

The exhibit highlights Benjamin Franklin's contributions to education in the area, including the founding of the University of Pennsylvania. The exhibit also puts Franklin's vision into perspective with glimpses of the educational environment in the Philadelphia region in the 18th century at

schools such as Germantown Academy, Episcopalian Academy and the Westtown School.

Examples of what students did in school, how they learned and what they learned is on display. The exhibit includes a three-dimensional handmade cloth needlework globe made by a Westtown School student in 1817, an alphabet chart from the early 1800s and a gallery of photos of buildings that once functioned as schooling sites, such as the humble one-room schoolhouse of the Beggarstown School on German-town Avenue in Philadelphia.

Also on display is the most recent major addition to Penn's Rare Book and Manuscript Library—a book printed by Benjamin Franklin in 1750 and believed to be the only copy that exists. *The Friendly Instructor* was written as a guide for proper conduct for young boys and girls. Hours: Monday-Friday, 9 a.m.-5 p.m.; Saturdays, noon-4 p.m.

Tercentenary Symposium: February 24

Accompanying this exhibit is the symposium, *If Ben Had Had His Way*, on February 24, 4-6 p.m., Class of '55 Room, 2nd floor of Van Pelt-Dietrich Library.

Near the end of his life, Benjamin Franklin concluded that the academy he helped found, which became the University of Pennsylvania, had consistently violated its charter. That charter advanced a controversial view of the university's relation to tradition, class, citizenship, and speculative knowledge. Where does the academy stand on these matters today? Where would Ben Franklin have liked the academy to stand?

Panelists include Rebecca Bushnell, SAS Dean; Peter Conn, Andrea Mitchell Professor of English; Peter Stallybrass, Annenberg Professor in the Humanities; Michael Zuckerman, professor of history; and the first-prize winner, to be named in this month, of the undergraduate student essay contest, *If Ben Had Had His Way*.

This symposium is presented by the Penn Humanities Forum and the Marvin and Sybil Weiner Fund of Van Pelt-Dietrich Library.

Registration required: call (215) 573-8280 or register online at http://humanities.sas.upenn.edu/05-06/BF300_sympos.shtml. This event is free. The public, including secondary school students are invited. See www.upenn.edu/secretary for more events.



International House will show selections from the *Human Rights Watch International Film Festival, February 15-19*. This event features the heroic stories of activists and survivors from all over the world. Above, a still from the documentary *No More Tears Sister*, which recreates the courageous and vibrant life of renowned human rights activist, Dr. Rajani Thiranagama who was brutally murdered in 1989. The films are co-presented by the Solomon Asch Center for the Study of Ethnopolitical Conflict.

Visit the I-House website, www.ihousephilly.org/humanrightswatch2006.htm for more info.

One Step Ahead

Security & Privacy
Made Simple

Another tip in a series provided by the Offices of Information Systems & Computing and Audit, Compliance & Privacy.

Remove Data Before Discarding Old Computers

Before disposing of, or donating, old computers, hard drives, CDs, computer tapes, or other electronic storage devices, make sure that all the data is destroyed.

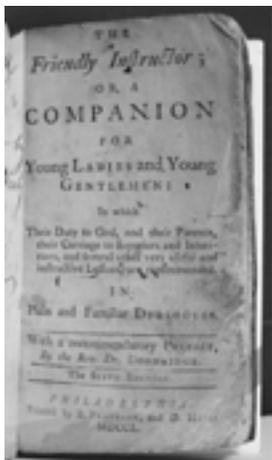
A simple delete by dragging the file to the trash and then emptying it is not sufficient. Computers don't actually get rid of the data deleted this way, but simply mark the space as available for subsequent use. Meanwhile the old data is still "squatting" on your hard drive until your operating system happens to assign a new file to the space.

University computers and hard drives should be securely wiped by overwriting the entire hard drive seven times before disposal or donation. Commercial software that will do this includes PGP Desktop for Windows and Mac, Active Eraser for Windows, and Super Scrubber for Mac.

University Archives and Records also provides a secure electronic data records destruction service. Contact Pat Vickers at vickers@pobox.upenn.edu.

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Sign up to receive e-mail notification when we post breaking news between issues. Send an e-mail to listserv@lists.upenn.edu with "subscribe e-almanac <your full name>" in the body of the message. —Ed.



The Friendly Instructor; or, a Companion for Young Ladies and Young Gentlemen...
Philadelphia: B. Franklin and D. Hall, 1750.

Update

February AT PENN

MUSIC

16 *The Glee of Clubs*; 8 p.m., Zellerbach Theatre, Annenberg Center; \$10, \$7 w/PennCard (Glee Club). *Through February 18.*

18 *Live Concert with Carl Stone*; live computer music; 8 p.m.; Slough Foundation; \$10 (Slough).

TALKS

15 *Montale and the War: History, Poetry, and Literary Theory*; Fabio Finotti, University of Trieste, Italy; 4:30 p.m.; Cherpack Lounge, Williams Hall (Italian Studies).

16 *Melodrama and the Aesthetics of Failure*; Sheetal Majithia, Cornell University; noon; rm. 816, Williams Hall (South Asia Studies).

The Banker as Entrepreneur; Michael Biondi, Lazard Ltd.; 4:30 p.m.; Levy Conference Center, Penn Law (Institute for Law and Economics).

17 *Making and Breaking Prions*; James Shorter, Whitehead Institute for Biomedical Research; 11 a.m.; rm. 253, BRB II/III (Biochemistry and Biophysics).

20 *DNA Translocation Mechanism of Chromatin Remodeling Revealed by Single-molecule Studies*; Yongli Zhang, University of California-Berkeley; noon; rm. 251, BRB II/III (Department of Biochemistry and Biophysics).

21 *What's Happening in the Family*; Loretta Sweet Jemmott, nursing; Ancil George, Van Pelt-Dietrich Library; noon; Fireside Lounge, The ARCH (African-American Resource Center).

Deadlines: The deadline for the weekly Update is every Tuesday, for the following Tuesday's issue. The deadline for the March AT PENN calendar is today, *February 14*. For information see www.upenn.edu/almanac/calendar/caldead-real.html.

University Club at Penn: Mid-Year Membership, Discounted Dues



At the University Club At Penn (formerly the Faculty Club) membership is open to all faculty, staff, alumni and graduate students. There's never been a better time to join the Club!

We've recently renovated and have now reopened. Stop in to see our changes!

It's the best lunch deal on campus. The light lunch includes sandwich or salad, along with soup and a beverage...for only \$6.15. Or enjoy a generous hot and cold buffet for only \$9.50 per person.

Members can also drop by for complimentary coffee and pastry on weekday mornings.

Annual dues are only \$52.50. However, special discounted dues of just \$27.00 are being offered for all regular faculty and staff joining at mid-year. Membership will be valid through August 31, 2006.

We hope that you will give serious consideration to joining. You can apply online at www.upenn.edu/universityclub. If you have any questions or need more information, feel free to contact the Club Coordinator, Nataka Swavely, at (215) 898-4618 or at universityclub@pobox.upenn.edu.

See you at the Club!

—John N. Rudolph, President
—Beverly Edwards, Secretary and Chair Membership Committee

No Issue During Spring Break

There is no issue of *Almanac* scheduled for March 7. During Spring Break staff are on duty to assist contributors planning for the issues immediately following the break. Weekly publication will resume on March 14. The deadline is the Tuesday before the date of the issue.

Breaking news, if any, and the weekly crime reports will be posted to "Almanac Between Issues."

CLASSIFIEDS—UNIVERSITY

RESEARCH

Do you have arthritis in your knees? Would you like to participate in a study designed to find out if acupuncture may help you walk better and decrease the pain? The study compares real acupuncture using needles that do not puncture the skin in patients who need physical therapy. Call Pat Williams for information at (215) 898-3038.

Osteoporosis Study: Women 60 years and older. Do you think you might have osteoporosis (bone loss)? Have you lost height? Did your mother have osteoporosis? Has a DEXA (bone density) scan indicated that you have osteoporosis? Have you broken a bone when you were an adult? If you are a woman 60 years or older who has osteoporosis and has never taken a bisphosphonate medication (Fosamax, Actonel, Aredia, Zometa, Boniva), you may be eligible to participate in a research study to determine if teriparatide (Forteo), which is approved by the US FDA, improves bone architecture. If you qualify for the study, the study will provide you with Forteo for 18 months, provide DEXA and MRI scans at 0, 9, and 18 months at no cost to you, and reimburse your travel expenses. Please contact Louise Loh at (215) 898-5664 for more information.

Almanac is not responsible for contents of classified ad material.

For information call (215) 898-5274.

The University of Pennsylvania Police Department Community Crime Report

About the Crime Report: Below are all Crimes Against Persons and Crimes Against Society from the campus report for **January 30-February 5, 2006**. Also reported were 11 Crimes Against Property (including 6 thefts, 2 burglaries, 2 acts of fraud and 1 auto theft). Full reports are on the www.upenn.edu/almanac/volumes/v52/n22/creport.html. Prior weeks' reports are also online. —Ed.

This summary is prepared by the Division of Public Safety and includes all criminal incidents reported and made known to the University Police Department between the dates of January 30-February 5, 2006. The University Police actively patrol from Market Street to Baltimore Avenue and from the Schuylkill River to 43rd Street in conjunction with the Philadelphia Police. In this effort to provide you with a thorough and accurate report on public safety concerns, we hope that your increased awareness will lessen the opportunity for crime. For any concerns or suggestions regarding this report, please call the Division of Public Safety at (215) 898-4482.

01/31/06	3:21 PM	4300 Market St	Male wanted for warrant/Arrest
01/31/06	3:31 PM	51 N 39th St	Unauthorized male in area/previously warned/Arrest
02/01/06	7:43 AM	100 36th St	Male cited for disorderly conduct
02/01/06	1:28 PM	3417 Spruce St	Unauthorized male in area/Arrest
02/01/06	10:48 PM	3935 Walnut St	Complainant assaulted/Arrest
02/02/06	10:27 PM	200 Spruce St	Offender driving intoxicated/Arrest
02/03/06	12:38 PM	106 38th St	Male refused to leave area/Arrest
02/04/06	1:01 AM	3901 Market St	Male refused to leave area/Arrest
02/04/06	2:49 AM	3401 Walnut St	Male refused to leave area/Arrest
02/04/06	4:00 PM	3409 Walnut St	Complainant struck with chair/Arrest
02/04/06	7:33 PM	3809 Locust Walk	Male spit on ambulance driver/Arrest
02/05/06	1:38 AM	3800 Walnut St	Complainant threatened with air pistol/Arrest

18th District Report

5 incidents with 4 arrests (including 1 robbery and 4 aggravated assaults) were reported between **January 30-February 5, 2006** by the 18th District covering the Schuylkill River to 49th St. & Market St. to Woodland Ave.

01/30/06	10:41 AM	4800 Walnut St	Aggravated Assault
01/30/06	11:16 PM	4100 Ludlow St	Robbery/Arrest
02/01/06	10:43 PM	3935 Walnut St	Aggravated Assault/Arrest
02/03/06	2:00 AM	1257 46th St	Aggravated Assault/Arrest
02/04/06	3:55 PM	3409 Walnut St	Aggravated Assault/Arrest



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The University of Pennsylvania's journal of record, opinion and news is published Tuesdays during the academic year, and as needed during summer and holiday breaks. Its electronic editions on the Internet (accessible through the PennWeb) include HTML and Acrobat versions of the print edition, and interim information may be posted in electronic-only form. Guidelines for readers and contributors are available on request and online.

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Preference for Beauty Might Be Hard-wired

Experiments conducted by Dr. Ingrid Olson, a research associate in the psychology department and researcher at Penn's Center for Cognitive Neuroscience, in which subjects were given a fraction of a second to judge "attractiveness," offered further evidence that our preference for beauty might be hard-wired. People who participated in the studies were also more likely to associate pretty faces with positive traits.

Dr. Olson, along with co-author Dr. Christy Marshuetz, of Yale University, recently published their findings in the journal *Emotion*, a publication of the American Psychological Association. The researchers set out to study cognitive processes behind a very real phenomenon: physically attractive people have advantages that unattractive people do not. Attractive people are paid more, are judged to be more intelligent and will receive more attention in most facets of life. "This favoritism, while poorly understood, seems to be innate and cross-cultural. Studies suggest that even infants prefer pretty faces," Dr. Olson said.

In their report, the researchers describe three experiments to investigate the preference for attractiveness. The first study tested the idea that beauty can be assessed rapidly by asking study participants to rate faces—pictures of non-famous males and females taken from three different high school yearbooks and the Internet—shown for .013 seconds on a computer screen. Although participants reported that they could not see the faces and that they were guessing on each trial, they were able to accurately rate the attractiveness of those faces.

In their second and third experiments, the researchers explored the notion of "priming"—whether or not seeing a pretty face makes a viewer more likely to associate that face with positive attributes. The second experiment involved rapidly showing a face on the screen, followed shortly thereafter by a word in white text on a black screen. Participants were instructed to ignore the face and were timed on how quickly they could classify the word as either good or bad. Almost uniformly, response times to good words, such as "laughter" or "happiness," were faster after viewing an attractive face.

They repeated the priming test in a third experiment, this time using images of houses, to see whether the beauty bias is a general phenomenon or one that is limited to socially important stimuli such as faces. Unlike faces, response times to good words were not faster after having viewed an attractive house.

Baboons in Mourning Seek Comfort Among Friends

When Sylvia the baboon lost Sierra, her closest grooming partner and daughter, to a lion, she responded in a way that would be considered very human-like: she looked to friends for support. According to Penn researchers, baboons physiologically respond to bereavement in ways similar to humans, with an increase in stress hormones called glucocorticoids. Baboons can lower their glucocorticoid levels through friendly social contact, expanding their social network after the loss of specific close companions.

"At the time of Sierra's death, we considered Sylvia to be the queen of mean. She is a very high-ranking, 23 year-old monkey who was, at best, disdainful of females other than Sierra," said Dr. Anne Engh, a postdoctoral researcher in the biology department. "With Sierra gone, Sylvia experienced what could only really be described as depression, corresponding with an increase in her glucocorticoid levels."

Dr. Engh worked with Dr. Dorothy Cheney, professor of biology and Dr. Robert Seyfarth, professor of psychology. For the last 14 years, Drs. Cheney and Seyfarth have followed a troop of more than 80 free-ranging baboons in the Okavango Delta of Botswana. Their research explores the mechanisms that might be the basis of primate social relationships and how such relationships may have influenced the development of human social relationships, intelligence and language.

To study the response of stress among baboons, Dr. Engh and her colleagues examined the glucocorticoid levels and grooming behavior of the females in the troop to see how closely they resemble patterns seen in humans. Their findings were published in the *Proceedings of the Royal Society of Biological Sciences*.

According to Dr. Engh, while the death of a close family member was stressful over the short term, the females they studied appeared to compensate for this loss by broadening and strengthening their grooming networks, which resulted in their glucocorticoid levels returning to normal.

Dr. Engh was able to track patterns in stress of the female baboons over time through their glucocorticoid levels. The stress levels of female baboons increased most noticeably when a predator killed a close companion. If they merely witness another baboon die they do not become as agitated.

"Our findings do not necessarily suggest that baboons experience grief like humans do, but they do offer evidence of the importance of social bonds amongst baboons," Dr. Engh said. "Like humans, baboons seem to rely on friendly relationships to help them cope with stressful situations."

Night Eating Syndrome & Psychiatric Outpatients

According to a study that appeared in the January 1 issue of *The American Journal of Psychiatry*, researchers at Penn's School of Medicine and the University of Minnesota found that night eating syndrome is a common disorder among psychiatric outpatients and is associated with substance use and obesity.

"This is the first study that looks at the connection between psychiatric conditions and night eating syndrome," said Dr. Jennifer D. Lundgren, lead author of the paper and postdoctoral research associate in the psychiatry department, Division of Weight and Eating Disorders. "Night eating syndrome is often associated with life stress and depression, so we were particularly interested in looking at the prevalence of the condition in this population," said Dr. Lundgren.

The study consisted of 399 participants from psychiatric outpatient clinics. Participants were screened using a questionnaire to assess hunger and craving patterns, percentage of calories consumed following the evening meal, insomnia and awakenings, nocturnal food cravings and ingestions, and mood. Those who scored above cutoff on the questionnaire were then interviewed by phone and diagnosed with night eating syndrome if one or both of the following criteria were met: 1) evening hyperphagia and/or 2) nocturnal awakenings with ingestions of food occurring three or more times per week.

Based on the total group of 399 participants, the prevalence of night eating syndrome was 12.3%, which exceeds the prevalence of the condition in an obesity clinic. The study revealed a significant effect of night eating syndrome diagnosis on body mass index (subjects with night eating syndrome: mean=33.1kg/m²; subjects without night eating syndrome: mean=27.7 kg/m²). Additionally, obesity was present in 57.1% of participants with night eating syndrome and obese patients with psychiatric conditions were five times more likely than non-obese patients to exhibit the condition.

Substance abuse was also more likely to occur among patients with night eating syndrome (30.6%) than among those without night eating syndrome (8.3%). Alcohol was the most commonly abused substance.

"Given the prevalence of night eating syndrome among outpatients with psychiatric conditions, our findings indicate that mental health practitioners will need to screen for and incorporate appropriate treatment options into their practice," said Dr. John P. O'Reardon, a co-author of the study, assistant professor of psychiatry, and director of Penn's Treatment Resistant Depression Clinic.

fMRI Used to Detect Memory Storage and Retrieval

Using functional magnetic resonance imaging, or fMRI, researchers at Penn and Princeton University have provided evidence that the act of recalling a memory is a bit like mental time travel. Their study, presented in the December 23 edition of the journal *Science*, demonstrates that the same areas of the brain that are active during an event are activated when a person attempts to recall that event seconds before the memory surfaces.

"An everyday strategy for getting at lost memories involves using a part of a memory to pull out the entire thought, much like when you try to remember where you put your keys last night," said Dr. Sean Polyn, a postdoctoral fellow at the Computational Memory Lab in Penn's department of psychology. "If you recall that you were washing dishes, that might trigger associated memories, leading you to remember that your keys are next to the sink. We refer to this phenomenon as 'bootstrapping.'"

Dr. Polyn believes that the knowledge of how the brain uses its memories could be applied to designing more detailed models of memory, which could help treat brain disorders such as Alzheimer's disease and epilepsy.

Dr. Polyn and his Princeton colleagues gave participants 90 things to remember divided among celebrity faces, common objects and famous locations using the fMRI to detect which parts of the brain were involved in the learning process for each category. They developed a technique that could track the brain activity corresponding to each of these categories. As they remembered, the technique provided a second-by-second readout of how the brain searched for information.

So participants would not feel compelled to "cram" the 90 items, the researchers presented them in the form of a series of judgments, for example, asking whether or not the subject liked or disliked a labeled photograph of comedian Carrot Top. These judgments were interspersed with simple arithmetic questions to keep the participants from memorizing the items. The subjects were then asked to freely recall the 90 items, in whatever order they could.

As the research team reviewed the data, they could see how the portions of the brain that stored memories of faces, for example, would activate several seconds before the participant began to name the celebrities.

"The results of this experiment suggest that when we think back to the past, each detail we remember triggers another, until the memory returns completely," Dr. Polyn said.