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An Open House: Celebrating 50 Years of Veterinary Excellence at New Bolton Center

The Penn community is invited to the School of Veterinary Medicine's biennial Open House on Saturday, September 21, between 10 a.m. to 3 p.m. at New Bolton Center in Kennett Square, Pa. Admission and parking are free. The event will be held rain or shine and will be particularly festive as the School celebrates *50 Years of Veterinary Excellence at New Bolton Center*.

Doors open at 10 a.m. for self-guided tours of the George D. Widener Hospital for Large Animals complex where many exhibits showcase patient care and treatment at the School's large and companion animal hospitals. Other exhibits highlight research and consumer information about food safety and some diseases.

Visitors can tour the Marshak Dairy, Pennsylvania's first solar dairy facility, and the new swine facility.

Throughout the day there will be much to watch such as:

Six-Horse Percheron Draft Hitch,
USDA Beagle Brigade "sniffing" dogs,

FEMA Search and Rescue Dogs,
Canine Freestyle Demonstration,
Sheep Herding, and
many animals—
pot-bellied pigs, cattle, goats,
and much more.

A schedule of performances is posted on the School's website www.vet.upenn.edu.

Throughout the day, a M*A*S*H tent will be open for the treatment of injured, stuffed animals. Veterinary students and nurses will work with the children to "heal" these beloved toys.

New Bolton Center is located at 382 West Street Road (Route 926), Kennett Square, in Chester County. Take Route 1 to 82 North, make a left onto 926 West, the Center is approximately two miles on the left.

For additional information visit the School's website: www.vet.upenn.edu or call Jeanie Robinson-Pownall at (610) 444-5800, ext.2182.

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See page 2 for timeline of New Bolton Center



An aerial view (above) of the School of Veterinary Medicine's New Bolton Center campus. The George D. Widener Hospital for Large Animals and its many special buildings are shown here in the foreground; this complex is located along Route 926 in Kennett Square, Chester County. The New Bolton Center campus is about 680 acres and contains not only the hospital and its buildings and barns, but a working dairy, swine facility, chicken coups, as well as many research laboratories and a farm operation.

Penn: #4 in U.S. News Rankings

The University has once again moved up another notch in the *U.S. News & World Report* rankings of Best National Universities. Penn has come in—along with for California Institute of Technology, Duke University, MIT and Stanford—tied for fourth place. Princeton has retained its place at the top of the list, with Harvard and Yale still right behind in second. Penn's overall score—out of a possible 100—is 93 points.

The universities were ranked on 18 criteria, including academic reputation, graduation and retention rate, faculty resources, class size, student faculty/ratio, and financial resources. The faculty resources rank earned Penn first place.

Penn was included in the list of universities with the highest proportion of classes under 20, with 71% in that category. It also made the list of those with the lowest acceptance rate, at 22%, while Harvard tops that list at 11%.

The rankings will be included in the magazine's upcoming issue, *2003 Top Colleges*.

The Evolution of the Book

Launching the *Year of the Book*, the Penn Humanities Forum presents an exhibition and panel discussion on the history of books and writing surfaces in Rosenwald Gallery, at Van Pelt-Dietrich Library on Sunday, September 22. This special exhibition, which will be open from 2 to 5 p.m., offers an encyclopedic tour of the various surfaces humans have used to communicate meaning. The exhibition, *Writing Surfaces: Matters of Texts* will be on view in the Library until January 10.

A panel of distinguished Penn faculty—Peter Stallybrass of English, Shane Butler of Classical Studies, and Millicent Marcus of Italian Studies—opens the exhibition with a discussion of what it means to call something a book, 2-4 p.m.

The Penn Humanities Forum has dedicated its 2002-2003 lectures, seminars, and exhibitions to the topic of *The Book*, perhaps the greatest textual communications technology ever invented. Over much of the world, the Gutenberg Revolution changed the face of culture, its dominance holding for half a millennium. But now, with the emergence of strikingly new means of textual transmission, the era of the book appears to be over. At this moment of transition, we would do well to examine the complicated impact of the book, its influence on the electronic media that threaten to supersede it.

—Penn Humanities Forum

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The following chronology of the past 50 years is reprinted with permission from Bellweather, the newsmagazine of the School of Veterinary Medicine. The magazine is available online from the School's homepage, www.vet.upenn.edu.

A New Bolton Center Chronology

1952 Purchase of 220 acres in southern Chester County announced by Dean Kelser.

Mark W. Allam, V'32, appointed acting dean upon Dr. Kelser's sudden death.

1953 Dr. Allam appointed eighth dean of School of Veterinary Medicine.

Cement block building constructed at New Bolton Center (NBC) to provide, exam room, surgery, recovery stall, pharmacy, diagnostic lab, and four research laboratories.

Field service moved to NBC from Media.

Department of Preventive Medicine and Hygiene created at New Bolton Center.

Poultry Diagnostic Laboratory opened at NBC with Dr. George Sperling as director.

1954 Dr. Charles Hollister appointed director of NBC

Official dedication of New Bolton Center.

1956 Robert R. Marshak, D.V.M. joins faculty.

Dr. Monica Reynolds receives School's first NIH grant.

1958 Major fundraising effort begins for dormitory and hospital buildings at New Bolton Center.

1961 Groundbreaking for hospital and dormitory building

1962 Murphy Laboratory for mastitis research dedicated.

1963 Comparative Leukemia Studies Unit established. Dr. Robert Marshak is principal investigator.

1964 Hospital for Large Animals dedicated.

1965 Vansant Dormitory dedicated.

Manor house on campus refurbished and named Allam House.

1966 Dr. William Donawick begins research on valve replacement surgery which later leads to interspecies heart transplantation to study mechanisms of rejection.

1967 Dr. Charles Raker named Lawrence Baker Sheppard Professor of Surgery – first endowed professorship in any veterinary school.

1969 Georgia and Philip Hofmann Research Center for Animal Reproduction dedicated.

1970 Alarik Myrin Memorial Research Building dedicated.

1973 Mark W. Allam retires. Robert R. Marshak appointed dean.

1975 Dr. John T. Alexander used the arthroscope for diagnostic purposes.

Endometrial biopsy service in mares offered to horse owners by New Bolton Center.

1976 Pennsylvania Embryo Transfer Service (PETS) established at New Bolton Center.

Lynne Klunder in Dr. McFeely's laboratory sexes first bovine embryo shortly after conception.

C. Mahlon Kline Orthopedic and Rehabilitation Center dedicated.

1977 Allam House Fund established through the generosity of David George Jones.

1979 First swine unit opens.

1980 Major addition to hospital completed – renamed George D. Widener Hospital for Large Animals.

1981 Virgil—first calf born as a result of in vitro fertilization.

1982 Dr. Nunamaker begins using the external fixator to stabilize fractures in horse's legs.

Parenteral nutrition for calves developed at New Bolton Center.

1983 World's first twin calves born in Lancaster County from in vitro fertilization at the New Bolton Center laboratory of Dr. Brackett.

Poultry Diagnostic Lab at New Bolton Center identifies virulent form of avian influenza virus in Pennsylvania flocks.

Pacemaker implanted in Bucky the horse.

1984 Equine embryo transfer service established at New Bolton Center.

Drs. Moyer and Nunamaker receive largest grant in Thoroughbred

Racing history from NY division of Horsemen's Benevolent and Protection Association to study bucked shins and relationship to track surfaces.

First neonatal unit opens at New Bolton Center.

1985 Diagnostic ultrasound introduced at New Bolton Center by Dr. Virginia Reef.

Ground is broken for the Connelly Intensive Care Unit/Graham French Neonatal Section.

Dr. Raker retires.

1986 Center for Animal Health and Productivity created at New Bolton Center.

External fixator receives a patent.

First paper on plate luting published – an internal fixation technique to repair broken leg bones in horses.

1987 Robert R. Marshak retires as dean. Dr. Edwin J. Andrews, V'67, appointed dean.

Laser surgery introduced at NBC

Ground broken for Stubbs Laboratory

Connelly Intensive Care Unit/Graham French Neonatal Section dedicated.

1988 Stubbs Laboratory dedicated.

1989 Groundbreaking for addition to Center for Animal Health and Productivity building.

New Bolton Center at the Races in Saratoga

GORE-TEX™ vascular graft inserted in horse by Dr. Donawick.

1990 Connelly Intensive Care Unit/Graham French Neonatal Unit opens.

Crème Fraiche Nursing Station in Intensive Care Unit named.

1991 Tenant House renovated and Bruce Heim Antique Furniture Collection dedicated.

1992 Laboratory of Large Animal Pathology becomes part of the Pennsylvania Comprehensive Mammalian Diagnostic Laboratory System.

Jeffords Treadmill opens.

Laparoscopy added at New Bolton Center.

1993 Nuclear scintigraphy available at New Bolton Center.

"An Evening at Old Saratoga" benefit and carriages at Saratoga.

Dr. Boucher dies.

Dr. Edwin J. Andrews steps down as dean.

1994 Dr. Alan M. Kelly appointed interim dean.

Toxicology laboratory established.

1995 Construction begins on first solar dairy barn in Pennsylvania.

Dr. Kelly appointed dean.

Open House held at NBC after a hiatus of many years.

Tornado damages swine facility, house and machine shop in the farm compound and destroys barn. *New York Times* calls New Bolton the "world's foremost equine center."

1996 Salmonella Reference Center established.

Dr. McFeely retires.

Leroy Bruce retires.

Marshak Dairy dedicated.

1997 NBC beneficiary of American Gold Cup held at Devon show grounds.

1998 Lila and Mark Allam die.

Dedication of The Richard S. Reynolds, Jr. Comparative Orthopedic Research Laboratory

Margaret McGrath Rockefeller Laboratories in Animal Reproduction and the Marion Dilley and David George Jones Laboratories in Animal reproduction dedicated.

Fish farming begins in Harnwell Pond.

2001 New swine unit opens.

Groundbreaking for Scott Equine Sports Medicine Building.

2002 Fairchild Aquaculture Laboratory dedicated.

Scott Center for Equine Sports Medicine dedicated.

Death

Frederic H. Shaffmaster, a former communications executive in the public relations department who served as director of radio and television, died September 1 from heart failure at his home in Philadelphia at the age of 88.

Mr. Shaffmaster moved to Philadelphia after receiving a bachelor's degree in economics at the University of Michigan. He began his career in radio in Philadelphia, working for stations WRCV, KYW Radio, WCAU, and WPBS and produced the notable business show *Citizen USA*, in which he conducted interviews and acted as host.

In 1965, Mr. Shaffmaster became director of radio and television for Penn's public relations department. He served as director until retiring in 1983.

Following his career at Penn, Mr. Shaffmaster began acting, receiving short roles in the blockbuster films *Dead Poets Society* and *Philadelphia*. Most recently, Mr. Shaffmaster appeared in an episode of the television series *Rescue 911* and several commercials for the City of Philadelphia.

Mr. Shaffmaster is survived by his wife, Kate; sons Frederic Jr. and Eric; daughters Lisa Shaffmaster and Kristina Meredith; eight grandchildren; and two great-grandchildren.

Penn/Leuven Faculty Exchange

Applications are invited from all Penn faculty interested in participating in Penn's exchange with the Katholieke Universiteit Leuven (K.U.Leuven) in Belgium www.kuleuven.ac.be/kuleuven/KUL_en.html. Round-trip economy airfare and a modest per diem are provided for teaching and research visits of at least one month and not more than one semester. Knowledge of Dutch is not required. A faculty host at K.U. Leuven must be identified.

Application deadline for spring 2003 short-term and fall 2003 semester-long faculty exchanges is Tuesday, *October 15, 2002*. Inquiries concerning later visits are welcome. For an application form and further information, please contact Elva E. Power, Office of International Programs, 133 Bennett Hall/6275, (215) 898-1640 or by e-mail: power@pobox.upenn.edu.

—Joyce M. Randolph, Executive Director
Office of International Programs (OIP)

Fashion Targets Breast Cancer

Proceeds from Saks Fifth Avenue Charitable Initiative to Benefit the Abramson Cancer Center of the University of Pennsylvania and Living Beyond Breast Cancer. Saks Fifth Avenue stores throughout the U.S. are hosting *Fashion Targets Breast Cancer*, September 18–21. Two percent of all store sales from the weekend will be donated to local and national breast cancer charities.

Saks Fifth Avenue in Bala Cynwyd, has named the Abramson Cancer Center and Living Beyond Breast Cancer, a Philadelphia area organization for women affected by breast cancer, this year's local beneficiaries.

Honorary chair of the event is renowned fashion designer, philanthropist and breast cancer survivor Rena Rowan Damone.

The kick-off reception will include a raffle, silent auction, t-shirts, informational materials, and refreshments. All guests will receive an electronic gift card, each worth \$25 and good toward any purchase of \$100 or more.

Kick-off reception, September 18, 6 to 9 p.m.
Shopping Event, September 18 -21

Wine Tasting, September 20, 5 to 7 p.m.

Fashion Shows, September 21, 12 to 1 p.m., and 3 to 4 p.m.

New Bioterrorism Legislation Affecting University Laboratories and Clinical Facilities

Before September 11, 2001, the transfer of certain infectious agents and biological toxins called "select agents" was regulated by *The Antiterrorism and Effective Death Penalty Act of 1996* which mandated strict regulation of the use, transfer and disposal of these materials.

After September 11, 2001, the Bush administration proposed broad antiterrorism legislation that established additional controls over select agents. On October 26, 2001 the *USA Patriot Act of 2001* was signed into law. The law criminalized the possession of select agents that had no legitimate purpose, banned the possession of select agents by a set of "restricted persons", and required the Secretary of Health and Human Services to establish additional standards and procedures governing the possession, use, and transfer of select agents.

The USA Patriot Act did not include a requirement to register laboratories for possession of select agents nor did it assign enforcement responsibility to a specific government agency. To rectify this, Congress passed and President Bush signed the *Public Health Security and Bioterrorism Preparedness and Response Act of 2002* on June 12, 2002.

The *Public Health Security And Bioterrorism Preparedness and Response Act of 2002* requires the US Department of Health and Human Services and the US Department of Agriculture to promulgate regulations by early December that:

- 1) maintain and establish a database of select agents that have the potential to pose a severe threat to the health and safety of the public; and review and republish the select agent list at least biennially.

- 2) establish safety procedures for the possession, use and transfer of select agents, including measures to ensure proper training for handlers of agents, proper containment facilities for use and disposal and appropriate safety and security measures to prevent access to agents by unauthorized persons.

In August, the Centers for Disease Control and Prevention (CDC) and the USDA initiated a notification process, whereby all possessors

of select agents were required to self-identify. The Provost asked all faculty to comply with the process by reviewing the list of notifiable agents available at the Environmental Health and Radiation Safety (EHRS) web site (www.ehrs.upenn.edu) and responding to EHRS if they possessed agents. In addition, the CDC and the USDA sent out almost 200,000 "Notification of Possession of Select Agents or High Consequence Livestock Pathogens and Toxins" forms (www.cdc.gov/od/ohs/lrsat/saopform.pdf) to individuals and institutions. EHRS notified form recipients at Penn to forward the forms to EHRS *without* completing them. EHRS coordinated Penn's response to the notification request and will continue to be the University focal point for future related efforts once the regulation is promulgated.

If you received a CDC/USDA "Notification of Possession of Select Agents or High Consequence Livestock Pathogens and Toxins" form and did not return it or forward it to EHRS, you will receive a reminder postcard asking you to report on what happened to the form. Please forward all forms and postcards to EHRS, 3160 Chestnut Street, Suite 400/6287.

If you have not already done so, consult the EHRS web site (www.ehrs.upenn.edu) for a list of select agents and the procedures to follow should you possess any of these materials.

If you intend to purchase or receive select agents, you must register your lab with the CDC. The director of EHRS must sign for each transfer and the CDC must be notified of each transfer. Contact EHRS at (215) 898-4453 for assistance.

In conjunction with the pending regulation, all possessors of biological agents and toxins on campus must register with EHRS. More information about the Biological Agent Registration Form will be provided to faculty by EHRS in the near future.

If you have any questions or concerns, contact EHRS at (215)898-4453 or ehrs@ehrs.upenn.edu.

—The Office of the Vice Provost for Research

Speaking Out

Pondering Conservation Postcards

I doubt I am the only person at Penn who has wondered why staff members have needed four postcard mailings about conserving resources. I won't even venture a guess about how much of the University's resources—human and financial—have gone into repeating something that we have all been living with for months now. The message is good, but the means of delivery via these postcards is questionable. Is there a reason for these multiple mailings so late in the summer?

—Rosemary Connors,
Wharton Alumni Affairs
and Annual Giving



Response

Thank you for your feedback and the opportunity to address your concerns. Perhaps the same message could have been delivered using fewer postcards. The postcards are in response to feedback that more educational information needed to be provided on the results of the campus communities' efforts to conserve resources. Initial postcards provide information on the types and amount of energy used at the University; comparing the last several years. Later postcards provide information on possible personal conservation measures. Finally, information on what our conservation efforts mean environmentally in terms of reduced emissions and equivalent cars removed or trees added is the last information being provided.

As far as your concern about the timing of this information. This information was intended to coincide with the summer electrical energy conservation period. Our intention was that by providing this type of information during the summer peak, which is our peak electrical rate setting period, we could reinforce the importance of everyone's efforts and the benefits of heightened awareness.

Originally it was hoped that these same messages could be sent by means of a mass e-mailing with attachments. Unfortunately, due to the size of the attachments and concern for slowing down the servers, this approach proved to not be feasible. Another option we considered was to send one mass e-mailing with an embedded link to a Web Site where the postcards could be viewed. This approach made it too easy to simply hit the delete key and miss the message. The intramural mailing of postcards allowed the information to be physically delivered so that each individual could choose to either read it or recycle the card. Also we had hoped to use postcards made of recycled paper, however the address label machines required a stiffer paper.

—Barry Hiltz, Associate Vice President
—William Anderko, Director
Division of Facilities Services

Speaking Out welcomes reader contributions. Short, timely letters on University issues will be accepted by Thursday at noon for the following Tuesday's issue, subject to right-of-reply guidelines. Advance notice of intention to submit is appreciated. —Eds.

The Office of Affirmative Action and Equal Opportunity Programs

The Office of Affirmative Action and Equal Opportunity Programs welcomes everyone to a new academic year. Our primary focus is implementing the University's legal responsibilities in affirmative action, equal opportunity and nondiscrimination. We educate members of the University community about these responsibilities through our web page and through our education and consultation efforts. We also receive complaints and concerns of prohibited discrimination under Penn's Policy on Equal Opportunity, Affirmative Action, and Nondiscrimination, which is located online at www.upenn.edu/affirm-action/revisedpolicy.html.

We invite you to join us in the upcoming events we are planning for the Penn community.

Along with several other offices and individuals, we are planning other programs as well, such as a Disability Awareness Month Program to be held some time in October.

Also, in collaboration with the Department of Anthropology and the Department of English, we are planning a lecture series on *Contemporary Issues in Native America* designed to bring leading Native American scholars to campus to educate the Penn community about topical concerns in Native America. The lectures will be held in the fall and spring semesters.

POW-MIA Commemoration Ceremony, September 20 at 8:30 a.m. at the Memorial Flagpole on 33rd Street and Smith Walk.

Second Annual Veterans Day Reception, November 11 from 4:30-6 p.m. Location to be announced.

We invite you to contact our office at (215) 898-6993 (Voice) or 215-898-7803 (TDD) and visit our web page at www.upenn.edu/affirm-action. The office is located at 3600 Chestnut Street, Sansom Place East, Suite 228.

We wish everyone a successful and rewarding academic year!

—Valerie Hayes, Executive Director

Honors and Other Things

Dr. Meggers: Dreyfus Award

Dr. Eric Meggers, assistant professor of chemistry, has been awarded a Camille and Henry Dreyfus New Faculty Award.

The Camille and Henry Dreyfus New Faculty Awards Program is designed to provide external research support of new faculty no later than the beginning of their first full-time academic appointments.

Dr. Tegmark: Cottrell Scholar



Max Tegmark

Dr. Max Tegmark, assistant professor of physics, has been named a 2002 Cottrell Scholar, awarded by the Research Corporation. The honor recognizes faculty who excel in both teaching and research and carries with it an award of \$75,000 to further the research and teaching of the scholar.

Dr. Tegmark's winning research proposal, *Beyond Cosmological Parameters*, hopes to help determine accurate ways of studying the types of matter in the universe and other cosmological problems. His application additionally included a teaching proposal geared towards improving the teaching of science to non-majors at Penn, developing an outreach program to Philadelphia high schools, and a web outreach program with the intention of "conveying cutting-edge results in the proposed research areas to a broad audience, with the aim to convey not merely the discoveries themselves, but also the scientific method and its intrinsic value."

Dr. Joshi: Lifetime Achievement

Dr. Aravind Joshi, Henry Salvatori Professor of Computer and Cognitive Science at SEAS, has been named the third recipient of the David E. Rumelhart Prize for contemporary contributions to the formal analysis of human cognition. Dr. Joshi was chosen for his seminal contributions to the formal and computational analysis of language. The Rumelhart Prize is funded and coordinated by the Glushko-Samuelson Foundation and the Cognitive Science Society. "Joshi's work has been the key to the development of effective computational methods for analyzing the structure of sentences," said James McClelland of Carnegie Mellon University. "Among Joshi's core ideas is his Tree Adjoining Grammar Formalism, which has provided the formal machinery necessary for capturing key insights from earlier work on transformational grammar in a computationally tractable framework."



Aravind Joshi

Dr. Joshi has also received the first lifetime achievement award given by the Association for Computational Linguistics, which recently had its 40th anniversary meeting at Penn.

Dr. Joullie: Senior Scholar Award

Dr. Madeleine Joullie, professor of chemistry, has received the 2002 Arthur C. Cope Senior

Scholar Award from the American Chemical Society. "Joullie is particularly distinguished for her pioneering, ongoing research with the didemnins," wrote a colleague who nominated her for the award. Didemnins are compounds isolated from tunicates, marine animals such as sea squirts, and which show anticancer properties. Several examples of her work in the field, "beautifully executed with surgical precision," have been described in textbooks, he added.



Madeleine Joullie

Dr. Farber: European Academy

Dr. David J. Farber, the Alfred Fitler Moore Professor of Telecommunication Systems, has been elected a member of the European Academy of Sciences in the section of Computer Science with the citation "for an outstanding and lasting contribution to computer science and computer science education." The Academy's mandate is to promote peace and technological developments, to facilitate collaboration between scientists and to emphasize their essential roles in fostering social and economic development.

Two Elected Fellows to American Academy of Microbiology

Dr. Paul H. Edelstein, professor of pathology and laboratory medicine, and Dr. Susan R. Ross, professor of microbiology, have been elected fellows of the American Academy of Microbiology. Dr. Edelstein was noted for "a distinguished career in clinical microbiology and major contributions to the diagnosis, treatment, and evaluation of therapies for Legionnaires' disease." Dr. Ross was noted for "important research in retroviral pathogenesis and innovation in the use of transgenic mice to study viruses."

Dr. Lambertsen: Lifetime Award

Dr. Christian J. Lambertsen, professor emeritus of environmental medicine and the Founding Director of the Institute for Environmental Medicine, was honored this summer at this year's Undersea and Hyperbaric Medicine Society National Meeting with a two-day symposium dedicated to his lifetime achievements. Dr. Lambertsen who is considered the "Father of U.S. Combat Swimming," joined the faculty in 1946 and has contributed to every aspect of military and commercial diving.



Christian Lambertsen

Dr. Kaufman: Director, Wistar Institute

Dr. Russel E. Kaufman has been named director and CEO of The Wistar Institute. Dr. Kaufman was vice dean for education and academic affairs for the Duke University School of Medicine and associate vice chancellor for academic affairs for the Duke University Health System. Additionally, he was a professor of medicine and biochemistry at Duke, with research interests focused on the genetics of blood

diseases and cancer.

At Wistar, Dr. Kaufman says he plans to give priority to research programs in emerging areas of science that hold great promise for delivering new treatments for major diseases.

Mr. Ramos: Giving Forward Award



Pedro Ramos

Mr. Pedro Ramos, vice president and chief of staff, and former president of the Philadelphia Board of Education, received the Giving Forward Award at this year's Celebration of Scholars.

During his school board presidency, student academic achievement improved, 14 new charter schools opened, and the Board increased its involvement in safety and security issues, adopted a student uniform policy, and approved a new teacher's contract. The Giving Forward Award is presented to individuals, companies, and organizations that have shown a commitment to the education of Philadelphia's youth by helping public school students realize their dreams of a college education.

Moms Honored

The Pennsylvania Partnership for Children honored 31 women in May as "The Hardest Working Mothers of Southeastern Pennsylvania." Among them were Felicia Green, of the Office of Government, Community and Public Affairs; Michelle Jester, and Jodi Sarkisian, both of the President's Office.

UPHS: On "Most Wired" in U.S. List

Hospitals & Health Networks, the journal of the American Hospital Association, has named the Penn Health System one of the nation's "most wired." The survey by the magazine shows that large gaps exist between the services offered by institutions like Penn and those less wired organizations.

"This year's survey shows that 'Most Wired' organizations continue to commit employees and money to their tech investments," says Alden Solovy, *Hospitals & Health Networks* executive editor. "This is reflected in the large gaps in penetration of key technologies, as well as in communication among patients, doctors, and nurses."

Lippincott Library: Excellence Award

Lippincott Library has received the Center of Excellence Award from the Business & Finance Division of the Special Libraries Association. The judges noted that the library excelled in the area of service to its clients. This first annual Center of Excellence Award serves to recognize quality as a priority for the successful management and delivery of information.

Inn at Penn:

Customer Service Award

This April, the Inn at Penn became one of only two properties in the 325-member Hilton Hotels Corp. to earn the Hilton Million Dollar Team Pride Award for superior customer service. Only six months earlier, AAA awarded the property its Four-Diamond official appointment for its high level of service and hospitality. Each full-time employee, many of whom come from the West Philadelphia area, were given \$500 as part of the award.

Annual Academic Career Conference

The 14th Annual Academic Career Conference—co-sponsored by Career Services and the Deputy Provost—is for graduate students. Penn graduate students and postdoctoral fellows continue to benefit from faculty, administrators and advanced doctoral students who will share their time and advice on preparing for academic careers. The Academic Career Conference will have four programs in the fall with something for graduate students at every level.

Since this conference first began 13 years ago, more than 60 faculty members and administrators, from Penn and area institutions, have participated in it or in its spring component, Faculty Conversations on the Academic Job

For International Education

Penn faculty members are invited to submit nominations for The Harold Josephson Award for Professional Promise in International Education. The award recognizes emerging leadership in international education through the student's graduate study and research, especially research in the field of international education. Send nominations to Dr. Joyce M. Randolph, Office of International Programs, 133 Bennett Hall/6275. Dr. Randolph is Penn's institutional representative to the Association of International Education Administrators (AIEA).

The internal deadline at Penn for nominations is *October 15*. (Since Penn may nominate only one graduate student, Dr. Randolph will convene a faculty advisory committee to select Penn's nominee.)

Please note that the award consists of a \$1,000 travel grant to attend the annual conference of AIEA and complimentary conference registration. The award does not provide funds for research projects.

For more information on AIEA, see www.aieaworld.org.

Philadelphia Earth Charter Summits

A free public assembly to redesign the Delaware Valley region based on the principle of sustainability will be held at Irvine Auditorium, on Saturday, September 28, 8 a.m. to 6:30 p.m.

Keynoters include Paul Hawken, author of *Ecology of Commerce* and *Natural Capitalism*; Tom Graham, former Special Representative for Arms Control, Non-Proliferation and Disarmament; Jonathan Granoff, President, Global Security Institute.

The Earth Charter Summit will focus on bringing a renewed commitment of activism to the area and the region's social, economic and environmental sustainability movements.

The afternoon is set up for dialogue in focused caucus groups: Education, Health, Responsible Business, Peace and Non-Violence, Energy and Climate, Democracy in Action, Social/Economic Justice and Interfaith and Spirituality. Regional leaders will present current projects and efforts, relate them to specific points of the Earth Charter and discuss barriers to progress.

The Earth Charter was drafted in a 12-year consensus process involving thousands of people and leaders in 56 countries. It recognizes that all regional and global problems are interdependent and declares 16 ethical principles and values that promote economic and social justice, non-violence, democracy, peace and ecological integrity.

Registration for free events: online, www.EarthCharterSummits.org/Register2002.htm, phone/e-mail: (215) 472-2058, Kevin Hansen @bigplanet.org.

Search and Academic Life.

Assembling a Dissertation Committee, Finishing Efficiently, and Ending Up with What you Need to Go on the Job Market: A Program for Second Year-Plus Doctoral Students; Tuesday, September 17, 4-5:15 p.m.; Golkin Room, Houston Hall; Dr. David Brownlee, professor of history of art; Dr. Jonathan Smith, professor of computer and information science.

Going on the Academic Job Market: A Program for Doctoral Students and Postdoctoral Fellows; Monday, September 23, 4-6:30 p.m.; Amado Recital Hall, Irvine Auditorium; 4-5:15 p.m.; *Interviewing for Academic Jobs: What to Expect*; Dr. Maurice Samuels, assistant professor of romance languages; Dr. G. K. Ananthasuresh, associate professor of mechanical engineering and applied mechanics; 5:15-6:30 p.m.; *The Academic Job Search: Hiring from the Search Committee's Perspective*; Dr. Jane A. Siegel, assistant professor of sociology, anthropology and criminal justice, Rutgers-Camden; Dr. David J. Prescott, associate professor of biology, Bryn Mawr College and Dr. James English, associate professor of English.

The Insiders' Guide to Graduate Education at Penn: A Program for First-Year Ph.D. Students; Tuesday, October 8, 4-5:30 p.m.; Terrace Room, Logan Hall; Dr. Peter Conn, Deputy Provost, *What you and your department can expect from each other*; advanced doctoral students/recent Ph.D.'s will give first-hand advice, Diana Williams, psychology; Cuong Peter Trinh, bioengineering; Angela Reyes, education; Joanna Kempner, sociology; Jeremy Braddock, English; Dr. Conn will moderate.

Trends in Higher Education and How They May Affect Your Career: A Program for Ph.D. Students, New Ph.D.'s and Postdoctoral Fellows; Tuesday, October 22, noon-1 p.m.; Room 103, McNeil Building; Dr. J. Douglas Toma, director and senior fellow, The Executive Doctorate and Penn Center for Higher Education Management, GSE.

To attend any of these programs, please sign up by sending an e-mail to vick@pobox.upenn.edu or by calling (215) 898-7530.

RAD for Women

Rape Aggression Defense (RAD) Program is being offered by the University of Pennsylvania Police Department (UPPD). It is a physical defense program for women that provides participants with a *Comprehensive Reference Manual*, and offers no-nonsense, practical techniques of defense.

RAD provides realistic and dynamic hands-on training. All participants receive a *lifetime free return and practice session*. The course is free to Penn students, staff, and faculty.

Class Schedule:

- I. Mondays: September 16, 23, 30, October 7
5:30-8:30 p.m.
- II. Tuesdays: September 24, October 1, 8, 15
5:30-8:30 p.m.
- III. Saturdays: September 28, October 5
9 a.m.-3 p.m.
- IV. Saturdays: October 19, 26
9 a.m.-3 p.m.
- V. Mondays: October 21, 28, November 4, 11
5:30-8:30 p.m.
- VI. Saturdays: November 9, 16
9 a.m.-3 p.m.

Course location: Penn Police headquarters, 4040 Chestnut Street. Pre-registration is required. Contact: Police Officer Stacey Livingston, UPPD, 4040 Chestnut St., (215) 898-3590, or e-mail: stacey2@pobox.upenn.edu.



Penn Public Safety Institute Class VI

Schedule and Curriculum

The Penn Public Safety Institute was developed to introduce the Penn and West Philadelphia communities to all aspects of the University of Pennsylvania's Division of Public Safety. This is an interactive twelve-hour program given in one and one half hour segments on Wednesday afternoons, beginning at noon (brown bag lunch). There will be eight clinics beginning on September 25. We invite Penn students, faculty and staff as well as members of Penn's neighboring communities to join us at Houston Hall and Irvine Auditorium.

Below is listed the curriculum for the Penn Public Safety Institute. The classes will be held on Wednesday afternoons from noon-1:30 p.m.

September 25: *Opening Remarks by Commanders/Orientation/Distribution of Materials/Scheduling Ride-Alongs*, Golkin Room, Houston Hall, (Vice-President Maureen Rush; Chief of Police Thomas Rambo; Deputy Chief of Operations Michael Fink).

October 2: *Accountability and Ethics* (Chief Rambo) Golkin Room, Houston Hall.

October 9: *Criminal Justice System* (Deputy Chief of Investigation William Danks) *Fire Arms Training*, Golkin Room, Houston Hall, (Tactical Supervisor Joseph Hasara).

October 15, 16, 17: 4040 Chestnut Street, *Fire Arms Training System* (Tactical Supervisor Hasara) 5:15-7:15 p.m.: *Ride-Along/PennComm*

October 16: *Special Services/PAL/RAD/Community Relations* (Director of Special Services, Patricia Brennan; Associate Director Maureen Kelly; Corporal Joseph Fischer; Police Officers Stacey Livingston and Cooper) G16, Irvine.

October 23: *Security Services* (Director of Security and Technology Domenico Ceccanecchio; District Manager Sidney Toombs) Golkin Room, Houston Hall.

October 30: *Fire & Emergency Services* (Director Ted Bateman and Safety Specialist John Cook) G7, Irvine, Traffic Safety and Pursuits (Lieutenant Thomas Messner Corporal Hugh McBreen).

November 6: *Question & Answer Session/Graduation Ceremony/Refreshment*, Golkin Room, Houston Hall.

A PPSI Enrollment Application and Authorization for Criminal Record Check must be obtained from the University Police for those interested in attending the Penn Public Safety Institute. The application can be found on the web at www.publicsafety.upenn.edu, or can also be obtained at the University Police Headquarters building located at 4040 Chestnut Street.

Please call (215) 898-4481 for additional information.

Quality of Worklife Workshops

Human Resources is pleased to offer the following workshops on a range of topics related to personal well-being.

- "Switching Gears: Transitioning from Work to Home"
- "Handling the Difficult and Angry Customer"
- "Practical Solutions for Everyday Parenting"
- "Handling the Hectic Holidays"
- "Eldercare 101"
- "Home Safety"
- "Butt Out" (a quit smoking program)

Notes: It is necessary to register online for all QOWL workshops.

Go to www.hr.upenn.edu/training_course_catalog/search_criteria.asp

Scroll down to 'Browse by Category,'

Select Quality of Worklife, where you will find dates, times and locations

Follow the prompts to register.

All presentations run during lunch time. Please feel free to bring a brown bag lunch with you.

Personalized Support: QOWL workshops are presented by experts from QOWL programs. For personalized one-to-one assistance with dependent care issues and personal well-being, contact Penn's Employee Assistance Program (EAP) and Work/Life Benefit provider (PBH):

- Call 1-888-321-4433, or
- Go online to www.hr.upenn.edu/quality
Select PENN EAP & Work/Life Benefit

Information: For info. about Penn's health promotion program, go to www.hr.upenn.edu/quality/wellness/healthwellness.asp.

Questions: Contact Orna Rosenthal at (215) 898-5116 or orna@hr.upenn.edu.

Legs for Life: Free Screenings

The Section of Interventional Radiology at the University of Pennsylvania Medical Center, in conjunction with the National Society of Interventional Radiology, is sponsoring Legs for Life, a public education and community wellness program to help identify people who may be at risk for PVD—peripheral vascular disease.

On September 27, 8:30 a.m. - 5 p.m. in Houston Hall's Bodek Lounge, interventional radiologists and other Penn specialists will be available to explain and discuss both peripheral vascular disease and abdominal aortic aneurysms.

Appointments are necessary; call (215) 615-3591/3541, or (215) 662-3110 (Spanish speaking).

PVD is caused by blocked blood flow in the arteries of the legs and often causes pain or swelling, difficulty walking, numbness and skin discoloration. It affects 10 million Americans, typically over age 50. People suffering from diabetes, smokers, and people with high blood pressure or high cholesterol levels are at increased risk of PVD. Early detection is key: PVD can typically be treated through lifestyle changes or medications in the earliest stages. In its most advanced stages, PVD causes a "heart attack in the legs"—arteries become so clogged and narrow that blood rich with oxygen and nutrients is prevented from flowing to the limbs.

Many individuals at risk of PVD are also at risk of abdominal aortic aneurysm (AAA), the 13th leading cause of death in the U.S. AAA is caused by a weakened area in the main vessel that supplies blood from the heart to the rest of the body. When blood flows through the aorta, the weakened area bulges like a balloon. If the balloon grows large enough, there is a danger that it will burst. Those at highest risk for AAA are males over 60 who have ever smoked and/or who have a history of hardening of the arteries. Also at risk are males and females with a family history of AAA.

—Jeffrey Solomon, *Interventional Radiology*

10th Annual Penn Family Day: October 5

University faculty and staff and their family and friends are invited to the 10th Annual Penn Family Day. To attend, you need a ticket—see instructions below.

Penn Family Tailgate Party, 11 a.m.

North side of Franklin Field between the Stadium & Hutchinson Gym

- Children's Special Play Areas –
a 25 foot slide and 30 square-foot Moon Bounce
- Super Hoops Electronic Basketball
- Face Painting, Clowns, Balloon Animals
- The Penn Marching Band and Cheerleaders
- Penn Police safety activities and motorcycle demonstration
- Ford Motor Company cars on display and discount program details
- Boxed Lunches

Penn Football Game, 12:30 p.m.

Franklin Field

- Penn vs. Dartmouth

University Museum Activities, 12:30 – 2:30 p.m.

University of Pennsylvania Museum - 3260 South Street

(Museum hours: 10 a.m. – 4 p.m.)

- PENN Family Day activities for all ages

Tickets

To get tickets for you and your guests, use the order form in the Penn Family Day brochure sent to University faculty and staff this month via intramural mail.

Note: Faculty and staff need to present a faculty/staff ticket and PENN Card to participate in Tailgate Party activities, receive lunch and attend the football game. Faculty and staff are admitted free, with one guest, to these activities. Additional guest tickets can be purchased for \$5 each. The faculty/staff brochure is personalized and request forms are non-transferable.

Questions

Go to www.hr.upenn.edu/quality/staffrecognition/familyday.asp or contact Human Resources Quality of Worklife Office at qowl@hr.upenn.edu or (215) 898-1012.

September Volunteer Opportunities

Dear Penn Community,

Thank you for your donations to the School Supplies Drive. Because of your generosity, we were able to make donations to the following:

- | | | |
|-------------------------------------|-----------------------------|---------------------------|
| -Drew School | -Mantua Back to School Fair | -Sayre Middle School |
| -Renaissance Men | -C.A.M.P. Program | -Bridges to the Community |
| -Penn's WorkPlace Mentoring Program | -Ford Program for Schools | -Six Families |

The following is a list of the service opportunities based on community requests for assistance and/or partnerships. If you would like to volunteer for any of the following programs, please let me know via e-mail (sammapp@pobox.upenn.edu) or call (215) 898-2020.

—Isabel Mapp, Associate Director, Faculty, Staff and Alumni Volunteer Services
Director, Penn Volunteers In Public Service, Center for Community Partnerships

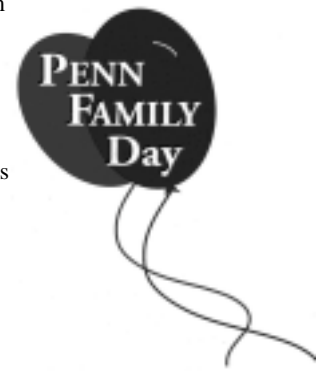
Mentors, Mentors, Mentors needed for the Penn's WorkPlace Mentoring Program in its 8th year of operation. Volunteer to mentor an 8th grade middle school student one day a month. Students come to campus the third Thursday of the month at 9 a.m. from October-May. They participate in a group program and then visit with their individual mentor in the mentor's workplace. Students depart campus around 1:30 p.m. Each mentor receives training and support. Join the many other mentors involved in this program.

SquashSmarts Needs You! SquashSmarts is a Philadelphia youth enrichment program that combines the game of squash with academic tutoring and mentoring of middle school students. Squash serves as the hook that pulls students into the program. Upon their first introduction to the game in 6th grade, the students are curious, inquisitive and excited about learning a new sport, and so willingly sign on for the extra academic work required by all participants. Students attend practice two afternoons per week—1 hour 15 minutes of squash followed by 1 hour 15 minutes of tutoring—and then two hours on Saturday mornings for squash play only. The 3-days per week schedule continues through the school year. Each team member benefits from one-to-one tutoring with college students and adult volunteers as well as one-to-one mentoring with college student athletes. This personal attention, tailored to each student's needs over the course of a three-year-long commitment to the program, is what makes SquashSmarts so unique.

Fall Clean-up: September 29, 10 a.m.-2 p.m.; call (215) 387-1911: We need volunteers to help with various yard and building task (i.e., picking up the yard, maybe a little gardening, graveling the parking lot, giving the theater a good cleaning up, or maybe cleaning out a closet or two, etc.) Community Education Center (CEC), 3500 Lancaster Ave.

Computers Needed: Is your department upgrading its computers? Would you like to donate your used computers to a worthy cause? The Center for Community Partnerships and a group of volunteers are working to provide computers to West Philadelphia schools, families and nonprofit agencies. Join us by donating your used computers to this cause.

Help Deliver Food: The Jewish Relief Agency (JRA) provides hunger relief to low-income Jewish families through its food distribution program. Each month, volunteers meet at a central warehouse location to package non-perishable food and then deliver the food into the homes of client families. Distributions take place one Sunday each month at the Floors USA warehouse in Northeast Philadelphia (located on Haldeman Avenue and Roosevelt Blvd).



Update

SEPTEMBER AT PENN

CONFERENCES

19 *Archaism and Innovation: Recent Perspectives on Middle Kingdom Egypt*: 9:15 a.m.-4:30 p.m., September 20: 9:30 a.m.-4:30 p.m.; Rainey Auditorium, University Museum (University Museum; Ancient Studies Center; Middle East Center).

25 *Total Maximum Daily Loads (TMDL) Frontier in Water Quality Management?*; Kenneth Reckhow; 9 a.m.-3 p.m.; Houston Hall; RSVP: (215) 563-3460 or awra-pmas@greeley-hanson.com (Philadelphia Metropolitan Area Section for the American Water Resource Association).

FITNESS/LEARNING

24 *Rape Aggression Defense*; physical defense program for women; 5:30 p.m.; Penn Police HQ, 4040 Chestnut St.; continues every Tuesday through October 15; Info./registration: (215) 898-3590 or stacey2@pobox.upenn.edu (Penn Police).

MUSIC

19 *Arpeggio Jazz Ensemble*; 5 p.m.; University Square, 36th St. between Walnut & Sansom (Office of Business Development).

SPECIAL EVENTS

20 *Archaeology and Art History Book Sale*: hundreds of books from around the world discounted up to 80% off; 10 a.m.-4:30 p.m.; Museum Shop, University Museum (University Museum).

TALKS

18 *Celebrating Women of Color: Visions for the Future*; Pamela Robinson and Isabel Mapp, Women

of Color Annual Awards Day Chairs for 2003; noon; Penn Women's Center, 3643 Locust Wlk. (African-American Resource Center; Women of Color Networking Lunch Series).

Women, Work, Health and Quality of Life; Afaf Meleis, School of Nursing; 4 p.m., Golkin Room, Houston Hall (AWFA).

19 *An Assessment of the Schuylkill River Basin based on Aquatic Insect Communities*; John Jackson, Stroud Water Research Center; noon; Auditorium, Wistar Institute (Institute for Environmental Studies).

20 *Structural Approach to Antitrust Analysis in Health Care*; Walter McNeerney, Northwestern University; noon; Colonial Penn Center Auditorium, 3641 Locust Wlk. (Leonard Davis Institute of Health Economics).

23 *DNA Replication Factors: Friends of the Establishment*; Robert Skibbens, Lehigh University; 2 p.m.; Reunion Hall Basement, John Morgan Building (Pennsylvania Muscle Institute).

Irving R. Segal Lecture in Trial Advocacy; Floyd Abrams, Cahill Gordon & Reindel; 4 p.m.; Location TBA (Law School).

25 *Variance Stabilization, Normalization, and Power Calculations of Microarray Data with Application to Austin*; Susan Geller, Texas A & M; 5:15 p.m.; Austrian Auditorium, Chemical Research Bldg. (CRD); reception at 5 p.m.

Deadlines: The deadline for the November AT PENN calendar is *October 15*. For submission information, see www.upenn.edu/almanac/calendar/caldead.html.

Wanted: Work Study Students

Positions are available at *Almanac*. Duties include desktop publishing, web design and maintenance, database maintenance, proofreading, and research.

Interested work-study students are asked to send an e-mail along with their resume, to morrisma@pobox.upenn.edu.

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 **September 2 through September 8, 2002**. Also reported were 33 Crimes Against Property (including **22 thefts, 4 burglaries, 2 acts of vandalism, 1 ordinance violation, 1 retail theft, 1 auto theft, 1 scofflaw and 1 defiant trespass**). 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 **September 2 through September 8, 2002**. 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.

09/02/02	1:09 AM	550 Hollenback
09/02/02	2:34 PM	3700 Hamilton
09/04/02	5:23 PM	200 block S 40 St
09/04/02	8:27 PM	4000 Walnut St
09/05/02	12:19 AM	4200 block Pine St
09/05/02	1:07 AM	3900 Walnut St
09/05/02	2:28 AM	39 & Walnut St
09/05/02	4:06 PM	3944 Pine St
09/06/02	1:32 AM	300 block S 40 St
09/06/02	8:46 AM	3800 Powelton
09/08/02	1:05 AM	3400 Locust Walk

Male wanted on warrant/Arrest
Male exposed himself to female/Arrest
Male took items from complainant
Male wanted on warrant/Arrest
Male wanted on warrant/Arrest
Male wanted on warrant/Arrest
Male driving intoxicated/Arrest
Fraudulent checks passed
Male acting disorderly/Cited
Male violated protection order/Arrest
Male assaulted by group of males

18th District Report

8 incidents and 1 arrest (including 6 robberies, 1 aggravated assault and 1 rape) were reported between **September 2-September 8, 2002** by the 18th District covering the Schuylkill River to 49th St. & Market St. to Woodland Ave.

09/04/02	12:45 AM	227 52nd St
09/05/02	3:45 AM	5100 Walton
09/05/02	3:30 AM	641 52nd St
09/07/02	2:00 AM	500 block 42nd
09/07/02	10:30 PM	5102 Spruce St
09/08/02	10:30 PM	4500 Ludlow
09/08/02	11:45 PM	4500 Locust
09/08/02	6:00 AM	5100 Larchwood

Aggravated Assault
Robbery
Robbery
Rape
Robbery
Robbery
Robbery
Robbery/Arrest

CLASSIFIEDS—UNIVERSITY

RESEARCH

Troubled by Overeating at Nighttime? Do you get up at night to eat? The University of Pennsylvania's Weight and Eating Disorders Program is conducting a research study of the Night Eating Syndrome. Study participants will receive assessment and treatment. To be eligible you must be 18-65 years old, be overweight, not have an occupation requiring nightshift work, and not be currently in a weight reduction program. For more information, call (215) 898-2823 or log on to www.uphs.upenn.edu/weight.

Want to Lose Weight? The UPENN Weight and Eating Disorders Program is offering a free 2-year weight loss program beginning this November. Women aged 21-50 who are 50 or more pounds overweight (BMI 30-40) may be eligible. Please call Leanne at (215) 898-3184 to see if you qualify.

Postmenopausal Women Needed Postmenopausal volunteers needed for a research study examining estrogen use, memory, and the ability to smell. \$50 will be given for approximately 3 hours of participation. Women 55 or older. For more information please call (215) 662-6580.

Almanac is not responsible for contents of classified ad material.

To place a classified ad, call (215) 898-5274.

CLASSIFIEDS—PERSONAL

FOR RENT

Center City House for Rent: Recently Rehabbed, 15 min. walk to Penn. 2bdr., 2bathroom, working basement, hardwood flrs, central air/heat, dishwasher, washer/dryer, patio, no pets, \$1450 p/m. tel. (215) 432-7197.

HELP WANTED

Penn Abandoned Animal Rescue League Help transport abandoned and homeless pets to the shelter. (215) 472-8261.

Almanac is not responsible for contents of classified ad material.

To place a classified ad, call (215) 898-5274.



Almanac

Suite 211 Nichols House
3600 Chestnut Street, Philadelphia, PA 19104-6106
Phone: (215) 898-5274 or 5275 FAX: (215) 898-9137
E-Mail: almanac@pobox.upenn.edu
URL: www.upenn.edu/almanac/

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.

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Nurse Shortage May Reach Crisis Sooner

In one of the most far-reaching studies of the current state of nursing, a Penn researcher has discovered that newly-minted nurses are leaving the profession at far faster rates than their predecessors, suggesting that the current shortage of nurses may reach crisis proportions sooner than anticipated.

One additional surprising finding is that beginning male nurses are leaving the profession at twice the rate of women. The research, which analyzes data from the National Sample Survey of Registered Nurses collected by the Division of Nursing in the U.S. Department of Health and Human Services in 1992, 1996 and 2000, is reported in the influential health care policy journal, *Health Affairs*.

"The study indicates that new nurses begin their careers with higher levels of job satisfaction, but the workplace itself seems to be convincing growing numbers to leave the bedside earlier in their careers for other professions," said Dr. Julie Sochalski, associate professor at the School of Nursing. "We know the nation is facing a shortfall of nurses. If new RNs are leaving the profession after only a few years, the shortage is likely to reach crisis proportions sooner rather than later."

As baby boomers age, thus increasing demands on the health care system, the median age of nurses is rising toward retirement. The U.S. Department of Labor predicts a shortfall of 331,000 nurses by 2008, leading to national recruitment efforts. However, Dr. Sochalski found that nearly 136,000 nurses are working in other professions, suggesting policy makers should turn their attention to nurse retention as well as the current emphasis on recruitment.

Specifically, the research found that:

- in the most recent nurse survey, 7.5 percent of new male nurses dropped out of nursing within four years of graduating from nursing school, compared to 4 percent of women;
- the drop-out rate for both male and female new graduates is accelerating, rising from 2 percent of men in 1992 to 7.5 percent in 2000; and 2.7 percent of women in 1992 to 4.1 percent in 2000;
- among new nurses, 75 percent of women reported being satisfied with their jobs compared to only 67 percent of men; among more established nurses 69 percent of women and 60 percent of men were satisfied.

"The accelerating rate of loss in the supply of nurses, at a time of substantially increasing demand, underscores the need to determine the reasons for the exodus. And while men may not yet comprise a sizable number of the total who are leaving, the growth in their retreat from nursing is nonetheless concerning," said Dr. Sochalski.

Depression and Exposure Linked to Alternate Tobacco Product Use Among Teens

Exposure to family and friends who smoke and elevated levels of depression significantly affect the likelihood of alternate tobacco product use among adolescents, a study by researchers from Penn's School of Medicine and Georgetown University indicates. The study, titled "Psychosocial Correlates of Alternate Tobacco Product Use during Early Adolescence," appeared in the August issue of *Preventive Medicine*.

Recent research shows that alternate tobacco products, including smokeless tobacco (chewing tobacco and moist snuff), cigars, cigarillos, pipes, bidis (sweet flavored cigarettes from Southeast Asia), and kreteks (clove-flavored cigarettes), are gaining in popularity among youth.

"This trend is dangerous because alternate tobacco products can lead to cancers of the oral cavity and a host of other negative health consequences," said senior author Dr. Janet Audrain, member of the Abramson Cancer Center and assistant professor in the Department of Psychiatry at the School of Medicine.

While previous research has shown that both exposure to other smokers and depression increase the likelihood of cigarette use among adolescents, this is one of the first studies to examine the influence that these social and psychological factors have on alternate tobacco product use.

Over eight percent of the teens reported using an alternate tobacco product (smokeless tobacco, cigars, pipes, bidis and/or kreteks) in the last thirty days. Among the eleven percent of freshman who reported being current cigarette smokers (smoked in the last month), 45 percent were also current users of an alternate tobacco product.

The researchers found that current alternate tobacco product users were significantly more likely to be male, white and current cigarette smokers. In addition, teens with higher levels of exposure to other smokers and those with greater depressive symptoms were found to be two to three

times more likely to be current users of alternate tobacco products, regardless of demographic factors and current cigarette smoking.

This research was funded by the National Cancer Institute and the National Institute on Drug Abuse and was conducted by the University of Pennsylvania/Georgetown University Transdisciplinary Tobacco Use Research Center.

Some Immune Cells Fight Cancer, Others Hold Them in Check

Many cancer patients generate immune cells capable of specifically attacking their tumors, but the cells rarely do, in fact, target a patient's cancer. What prevents these potentially helpful cells from taking action? And is there anything that might be done to unleash them?

The attack cells—known as cytolytic T cells—are prevented from acting by a second set of immune cells called regulatory T cells, according to a new study from investigators at The Wistar Institute. The research also shows that the regulatory T cells communicate their message of restraint to the cytolytic T cells at a distance, via a messenger chemical called TGF-beta. A report on the study appears in the September 15 issue of *Cancer Research*.

Previous work has focused on ways to stimulate the cytolytic T cells to act, but the new study suggests that other approaches to bringing them into the battle against cancer might be more effective. For example, a drug that inactivates the regulatory T cells or that blocks the TGF-beta chemical message they send might free the cytolytic T cells to attack a patient's tumor.

"We've known for some time that cancer patients can generate T cells able to attack their tumors," says immunologist Dr. Dorothee Herlyn, a professor at The Wistar Institute and senior author on *Cancer Research* study. "What we discovered in this study is that those patients also produce negatively regulating cells at the same time that keep the attacking T cells in check. The existence of these regulatory cells may help explain how tumors are able to evade the immune system. They also represent a new starting point for thinking about novel anti-cancer treatments."

The current study evolved somewhat by chance. Using cells from a human colorectal cancer patient, Herlyn's laboratory team was working to identify T cells with cancer-fighting capabilities and isolate them from other types of immune cells. At one point, one of her coworkers suggested combining different groups of isolated cell types to look for interactions between them.

"We put these two different types of immune cell together, one of which killed cancer cells in culture, the other of which did not," Herlyn recalls. "When we did, we were stunned to see that the one that had previously killed cancer cells no longer did so."

Adequately explaining the mechanisms underlying that observation required several years of additional study, she says.

The lead author on the *Cancer Research* study is Dr. Rajasekharan Somasundaram, at The Wistar Institute. The other Wistar-based coauthors are Lutz Jacob, Rolf Swoboda, Ph.D., Laura Caputo, Hong Song, Saroj Basak, David Peritt, Dewei Cai, Brigitte Birebent, Jin Kim, and Klara Berencsi. Collaborators on the study are Dimitri Monos, Ph.D., at HUP, Francesco Marincola, M.D., at the National Cancer Institute, and Ellen Bloome and Michael Mastrangelo, M.D., a professor of medicine at Thomas Jefferson University. The research was supported by grants from the National Institutes of Health.

Head Start Provides Leg Up to Kindergartners

New research shows that Philadelphia children attending Head Start programs and other center-based child care are better prepared for kindergarten and maintain higher skills throughout the year. They achieve higher levels of early literacy and math skills and display work habits and motor skills that are more advanced than their peers.

In addition, these same children had higher attendance levels than those who had no formal preschool experiences. These findings and many others were presented at a gathering of School District of Philadelphia Head Start education at Penn.

"Never before had such a comprehensive set of early childhood data been available," said Dr. John Fantuzzo, GSE professor and lead researcher. "This convocation is evidence of the Head Start's local and national commitment to quality information that promotes readiness for children in the most challenging urban environments."

Currently, 65 percent of Philadelphia's kindergartners have center or school-based childcare experiences before they enroll in kindergarten.