

UNIVERSITY OF PENNSYLVANIA Almanac

Tuesday
October 21, 2014
Volume 61 Number 10
www.upenn.edu/almanac

\$2.8 Million Grant to Research the Monitoring of Blood Flow in the Brain Following Strokes

The National Institutes of Health have awarded University of Pennsylvania researchers a five-year, \$2.8 million grant to further research on techniques for monitoring blood flow in the brain following strokes. The grant is part of the agency's Bioengineering Research Partnership (BRP) program, which supports interdisciplinary approaches to solving health-related problems through the development of new technologies.

The research team is lead by Arjun Yodh, James M. Skinner Professor of Science in the department of physics & astronomy in the School of Arts & Sciences; John Detre, a professor of neurology in Penn's Perelman School of Medicine; and Daniel Licht, associate professor of neurology at the Children's Hospital of Philadelphia.

The new funding is a renewal of the team's previous BRP grant, awarded through the NIH's National Institute of Neurological Disorders and Stroke, in recognition of the progress made during the previous five years when the Penn team developed and tested a new optical device that permits noninvasive and continuous monitoring of cerebral blood flow.

"For stroke patients, increasing the flow of blood to damaged tissue within the brain is a common treatment goal," Dr. Yodh said, "but current technologies for measuring regional cerebral blood flow are limited or can't be used continuously. The optical approaches offer the possibility to tailor care to individual patients."

The team's key technology development is a noninvasive probe placed on the surface of the head that measures the fluctuations of near-infrared light that has travelled through the skull and into the brain and then back out to the tissue surface. These fluctuations are caused by moving red blood cells in tissue and have been shown to accurately track blood flow in underlying brain tissue.

The team demonstrated the technique's effectiveness by measuring responses during a common treatment used in post-stroke care. Most patients hospitalized with an acute stroke are kept lying flat for at least 24 hours, in an effort to increase cerebral blood flow in vulnerable brain regions surrounding the damaged tissue. The researchers reported in the journal *Stroke* that, while this flat position did indeed increase blood flow in the damaged hemisphere in most stroke patients, about a quarter of the patients had a paradoxical response and showed improved blood flow when their heads were kept at an elevated angle.

"Stroke is the leading cause of disability," Dr. Detre said, "with \$2.2 trillion in projected costs of care over the next five decades in the United States alone. Individualizing stroke management by actually measuring the underlying physiology and its response to treatment interventions has great potential to impact stroke outcomes."

"Stroke in children, especially the very youngest, presents even greater challenges than in adults," Dr. Licht said. "Infants and young chil-

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\$7.3 Million Grant Renewal from NCI to Study Esophageal Cancer

Researchers at the Perelman School of Medicine at the University of Pennsylvania will receive \$7.3 million over the next five years from the National Cancer Institute (NCI) to find new ways to treat esophageal cancer. This grant is a renewal of an NIH/NCI program funded over the last 10 years and is the only program of its kind funded by NCI for esophageal cancer.

"We are excited about this renewal, and it builds upon success in generating novel three-dimensional organ-like culture models, mouse models and identifying key genes with clinical outcomes," said Anil K. Rustgi, the T. Grier Miller Professor of Medicine and Genetics and chief of the gastroenterology division, who is the overall principal investigator on the grant. "We have several candidate genes and pathways that serve as new and innovative targets for esophageal cancer, which we believe



Anil Rustgi

\$1.7 Million Grant to Prevent Obesity in Children

More than one third of children and adolescents in the United States are overweight or obese, according to the Centers for Disease Control and Prevention. In a first-of-a-kind study, investigators led by Tanja Kral, associate professor of nursing, will identify obesogenic eating phenotypes in children in order to move primary obesity prevention strategies in a new direction. The study will use an integrative approach to concurrently study select eating behaviors under states of hunger and satiety and to assess the impact of short-term appetite and intake regulation on longer-term weight outcomes in normal-weight and obese children, ages seven to nine, who are at high or low risk for obesity on the basis of a family history of obesity.

Dr. Kral has been awarded \$1.78 million from the National Institute of Diabetes and Digestive and Kidney Diseases for her study, "Eating Phenotypes for Childhood Obesity in the Context of Familial Obesity Risk." Her co-investigators for this study are Jennifer Orlet Fisher, interim director of the Center for Obesity Research and Education at Temple University

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have implications in head and neck cancer as well as lung cancer."

Continued research for esophageal cancer is critical for prolonging patient survival, especially since this type of cancer becomes prevalent in its later stages and patients often have a poor prognosis and reduced response to traditional chemoradiation therapy. Esophageal cancer is a common cancer worldwide and esophageal adenocarcinoma, one of two subtypes, has the fastest rate of increase of any cancer in the US. Dr. Rustgi presented to a Congressional Caucus in June 2014 on the Recalcitrant Cancer Research Act passed in 2013, of which esophageal cancer is one.

Three projects are the cornerstone of the grant:

Project One (Anil K. Rustgi, project leader) will focus on the biological roles of the cooperation between p120-catenin and p53 tumor suppressor genes in the formation of esophageal tumor cells, as well as the interplay of these tumor cells with other proteins in the tumor microenvironment.

Project Two (J. Alan Diehl, project leader) elucidates the manner in which the protein cyclin D1 is regulated and defines the role of Fbx4 mutations in initiation of esophageal cancer. These findings will be developed into therapies that target cyclin D1/CDK4 kinase and key downstream molecules.

Project Three (Kwok-Kin Wong and Adam Bass, Dana-Farber Cancer Institute, project leaders) looks at genomic amplifications of genes encoding ERBB-family kinase proteins and cell-cycle mediators in esophageal cancers. These will serve as biomarkers to guide the use of targeted inhibitors and to test therapeutics in genomically defined models to identify optimal agents and rational combinations of targeted agents.

The projects are further supported by core facilities designed to provide esophageal cancer-specific services for collaborative research and bring together a host of labs on the Penn campus, including those of Hiroshi Nakagawa, John Lynch, Jonathan Katz, Sunil Singhal, Devraj Basu, Meenhard Herlyn and Marcia Brose.

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The following agenda is published in accordance with the Faculty Senate Rules. Any member of the standing faculty may attend SEC meetings and observe. Questions may be directed to Vicki Hewitt, executive assistant to the Senate Office either by telephone at (215) 898-6943 or by email at senate@pobox.upenn.edu

Faculty Senate Executive Committee Agenda

Wednesday, October 29, 2014
Hourglass Room, University Club
3-5 p.m.

1. Approval of the Minutes of September 24, 2014 (2 minutes)
2. Chair's Report (5 minutes)
3. Past-Chair's Report on Academic Planning and Budget & Capital Council (3 minutes)
4. Ballots: 2015 Senate Nominating Committee (5 minutes)
5. Update on the Task Force on Student Psychological Health and Welfare (45 minutes)
Discussion with Rebecca Bushnell and Anthony Rostain, Co-Chairs of the Task Force on Student Psychological Health and Welfare
6. Update from the Office of the Provost (45 minutes)
Discussion with Vincent Price, Provost
7. New Business (15 minutes)

Executive Director of Pennsylvania Hospital: Theresa Larivee

Theresa Larivee has been named the new executive director of Pennsylvania Hospital, effective November 1. Ms. Larivee, currently the vice president of financial operations and budget for the University of Pennsylvania Health System (UPHS), was selected following a highly competitive national search.



Theresa Larivee

She will succeed R. Michael Buckley, who is retiring after four years leading Pennsylvania Hospital, where he spent 37 years as an infectious disease physician and chief medical officer. Ms. Larivee came to Penn Medicine in 2008 from Fox Chase Cancer Center where she served as senior vice president and chief financial officer, presiding over all financial operations for the \$300 million, National Cancer Institute-designated enterprise. Prior to Fox Chase, Ms. Larivee worked at Columbia University Medical Center, where her focus was improving operational and financial performance. Notable accomplishments included partnering with health system leadership to create key strategic alliances that extended the Columbia brand to communities in the tri-state region.

During her six years with UPHS, Ms. Larivee has implemented a system-wide strategic analytical team at UPHS, setting the foundation for key matters of strategy and business assessment. She has provided professional mentorship for staff across the system and serves as a Penn Medicine Leadership Academy faculty member in the "Leaders as Teachers" program with a focus on the Strategy & Finance curriculum. For the past year, Ms. Larivee has worked closely with faculty and staff within the department of medicine to facilitate an operational and fiscal turnaround and structural reorganization.

"Theresa's collaborative leadership style has allowed her to work across all UPHS entities

and instill a culture of cooperation and communication," said Ralph W. Muller, chief executive officer, UPHS. "With her highly effective client-focused and action-oriented leadership style—along with her deep commitment to staff and faculty development—we're confident the tradition of excellence at the nation's first hospital will be in good hands."

"Already an integral member of the health system, Theresa's leadership skills, strategic vision and management expertise make her an excellent choice to continue Pennsylvania Hospital's success and growth," said Garry L. Scheib, chief operating officer of UPHS and executive director of the Hospital of the University of Pennsylvania.

Since its founding in 1751 by Benjamin Franklin and Dr. Thomas Bond, Pennsylvania Hospital (PAH), the nation's first, has been a leader in patient care, treatment techniques and medical research. A major teaching and clinical research institution, PAH offers patients comprehensive, state-of-the-art services from that run the full spectrum of health care: from obstetrical and prenatal care, primary care and family medicine—to some of the most complex medical and surgical diagnostics and treatments available. Nationally renowned programs at PAH include: orthopaedics, cardiac care, neurology and neurosurgery, hematology/oncology, urology, obstetrics and gynecology, neonatal and newborn services, fertility care and behavioral health.

\$2.8 Million Grant to Research Blood Flow in the Brain Following Strokes

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dren lack the ability to cooperate with clinical exam, and consequently this increases the reliance on technology. Furthermore, the consequences of pediatric stroke outcomes will be felt over a child's full lifetime, up to 70 years or more."

A patent has been granted to the University for the team's optical cerebral blood flow monitoring technology, and a spin-off company is being established through the Penn Center for Innovation's UPstart program.

Besides its application to neurological disorders, the team's technology is being tested in a number of other clinical populations in whom tissue blood flow changes are relevant.

From the Office of the University Secretary

Agenda for University Council Meeting

Wednesday, October 22, 2014
4 p.m.

Bodek Lounge, Houston Hall

- I. Approval of the Minutes of October 1, 2014 (1 minute)
- II. Follow Up Questions on Status Reports (5 minute)
- III. Presentations by the President and Provost on the State of the University (60 minutes)
- IV. Open Forum (60 minutes)
 1. Proposal for Theme Year topic. Denzel Cummings, C'15
- V. New Business (3 minutes)
- VI. Adjournment

Grant to Prevent Obesity in Children

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ty and Renee Moore, associate professor of statistics at North Carolina State University.

The study will investigate whether high-risk, normal weight children are similar in their eating behaviors to low-risk, normal weight children or if they have already adopted behaviors that resemble more closely those of high-risk, obese children. The study will evaluate children's overall appetite control to determine if these eating traits predict one-year changes in children's BMI z-score, waist circumference and percent body fat. The study will also assess if there is a difference in susceptibility of children eating in the absence of hunger if they are presented with healthier snacks like fruit and will also determine the relationship between children's home food environment, their eating phenotypes and weight change.

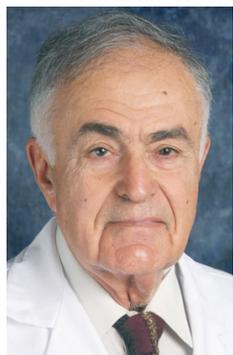
The knowledge gleaned from this research can be used to design personalized behavioral interventions for children who are at greatest risk for obesity that target the individual components of the behavioral phenotype.

Dr. Kral serves as an associate director of the Biobehavioral Research Center (BRC) in Penn's School of Nursing and is a faculty member of the Center for Weight and Eating Disorders (CWED) and a fellow at the Center for Public Health Initiatives (CPHI), the Center for Health Behavior Research (CHBR) and the Center for Health Incentives and Behavioral Economics (CHIBE) at the Leonard Davis Institute (LDI) of Health Economics in Penn's Perelman School of Medicine.

Her research focuses on the cognitive, sensory and nutritional controls of appetite and eating in children and adults and their relevance to obesity, with specific research attention devoted to behavioral genetic methods to identify familial risk factors for overeating. In particular, her research assesses how familial predispositions to leanness or obesity interact with environmental factors, such as the omnipresence of palatable, energy-dense foods, to produce individual differences in energy intake regulation.

Deaths

Dr. Gonatas, Pathology & Laboratory Medicine



Nicholas Gonatas

Dr. Nicholas K. Gonatas, professor of pathology & laboratory medicine in the Perelman School of Medicine and founder of the division of neuropathology at Penn, died on October 7 of pancreatic cancer; he was 84.

A luminary neuropathologist, Dr. Gonatas had been a faculty member at Penn for 50 years.

He was raised in Thessaloniki, capital of the province of Macedonia in mainland Greece. Dr. Gonatas survived the Nazi occupation, graduated from the Anatolia College in 1946 and Aristotle University of Thessaloniki School of Medicine in 1952. He came to the US in 1957 where he trained in neuropathology, experimental pathology and cell biology at Albert Einstein College of Medicine in New York by legendary physicians and scientists: Lucien Rubinstein, Harry Zimmerman, Bob Terry and Saul Korey. In 1964 Dr. Gonatas was recruited to Penn where he built one of the finest neuropathology divisions in the country.

During his scientific and clinical career, Dr. Gonatas published more than 220 manuscripts, many of them in journals such as *Nature*, *Science*, *Journal of Cell Biology*, *American Journal of Pathology*, *Journal of Neuroscience* and *PNAS*. In cell biology his work on mitosis, which resulted in a citation classic publication, was the first to describe in detail the ultrastructure of mitosis. His work on axonal transport, again another citation classic, was the first to describe retrograde axonal transport, receptor-mediated endocytosis and Golgi trafficking. In clinical neuropathology he described four myopathies: myotubular (centronuclear) myopathy, nemaline myopathy, mitochondrial myopathy and oculopharyngeal muscular dystrophy.

He introduced the concept of organelle pathology as key underlying factor in the pathogenesis of many inherited neurological diseases, paving the way to better classification of these disorders (such as lysosomal or mitochondrial diseases) and to better understanding of their etiology and pathogenesis. In experimental neuropathology and following closely his work in cell biology, he discovered that disruption of the Golgi apparatus is an early and hallmark lesion of motor neuron degeneration. He also described synaptic alterations as an early manifestation of neurodegeneration in Alzheimer's Disease. His NIH grant support, which included two Senator Jacob Javits Neuroscience Investigator awards, had been one of the longest that any individual scientist had in the history of the NIH.

Dr. Gonatas received numerous fellowships and awards including fellowships from the Guggenheim and Josiah Macy Foundations, the Rous-Whipple Award and the Gold Headed Cane Award from the American Society for Investigative Pathology, the Meritorious Award for Contributions to Neuropathology from the American Association of Neuropathol-

ogists (AANP) and numerous teaching awards. He served as AANP president and in 1984 was elected corresponding member of the Academy of Athens.

Dr. Gonatas established a distinguished national and international neuropathology training program and built a division populated by faculty with very strong experimental programs. He trained more than 30 neuropathology fellows; many of them continue in his mold, as physician-scientists combining basic or translational science with clinical neuropathology.

Dr. Gonatas is survived by his wife, Jacqueline; sons, Dinos and Constantine; daughter, Marina; and three grandchildren.

Dr. Witzleben, Pathology & Laboratory Medicine



Camillus Witzleben

Camillus L. "Cam" Witzleben, professor emeritus of pathology & laboratory medicine in the Perelman School of Medicine, passed away October 1 at age 82.

Dr. Witzleben was appointed to Penn's faculty in 1973 as a professor of pathology and laboratory medicine. He came from St. Louis University, where he had served on the faculty for several years. Prior to that, he held faculty appointments at Harvard University, Washington University and the University of California, where he was also director of laboratories at the Children's Hospital Medical Center of Northern California. He had also been a post-doctoral fellow at the National Foundation Hospital for the Sick Children in London, England.

During his time at Penn, Dr. Witzleben also held a secondary appointment in pediatrics and had been pathologist-in-chief at Children's Hospital of Philadelphia for 25 years. He became emeritus in 1996.

Dr. Witzleben was born in North Dakota. He earned his BS from the University of Notre Dame in 1953. After earning his MD from St. Louis University in 1957, he remained there to complete his internship and part of his residency. He completed his residency at Boston Lying-In Hospital.

Dr. Witzleben is survived by his wife, Donna; six daughters, Anne Grant, Bea Witzleben, Claire Witzleben, Donna Gibbons, Ella Witzleben and Kathryn Markowitz; eight grandchildren; and one great-grandchild.

Donations may be made to Elwyn Foundation, Elwyn Cottage 2 Initiative, 111 Elwyn Rd., Elwyn, PA 19063.

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. Call (215) 898-5274 or email almanac@upenn.edu

However, notices of alumni deaths should be directed to the Alumni Records Office at Room 517, Franklin Building, (215) 898-8136 or email record@ben.dev.upenn.edu

Call for Credit-bearing Online Course Proposals: November 14

Arts & Sciences Online Learning (www.sas.upenn.edu/onlinelearning) offers faculty the opportunity to teach fully online, credit-bearing courses. Proposals for credit-bearing Summer 2015 online courses are due November 14.

All proposals will be reviewed by Arts & Sciences Online Learning, the Arts & Sciences Online Learning Faculty Advisory Committee, the faculty member's departmental chairs and the Curriculum Committee.

Faculty with successful proposals will receive a stipend for transitioning their course content to the online format as well as a stipend for teaching. Additionally, faculty teaching online will receive course design support, digital content production and technical assistance from the Arts & Sciences Online Learning team throughout the development and teaching phases.

To begin the proposal process, interested faculty should contact Dr. Jackie Candido, senior director of Arts & Sciences Online Learning at candido@sas.upenn.edu

5th Annual Penn Safety Fair: October 30

Public Safety and the Office of Environmental Health and Radiation Safety (EHRS) dare the Penn staff to become aware of safe work practices in your laboratory and office spaces.

Representatives from around Penn will be present to answer questions about office ergonomics, personal safety, gender inequity, recycling, proper PPE, laboratory waste, rDNA registrations, training compliance, animal protocols, dangerous goods shipments, export controls and more. The event takes place on *Thursday, October 30, 10 a.m.-1 p.m.*, in the Vernon and Shirley Hill Pavilion Lobby at 380 S. University Avenue. Take LUCY to the Fair! See universitycity.org/lucy for more information.

Several vendors will also be there with a variety of safety products to try out.

Participate in several games at this year's Safety Fair for a chance to win some great prizes!

Enter one or both of two fun contests to win more great prizes: The Video Challenge and the Decorate Your Lab Coat Contest (*Almanac* September 30, 2014).

Environmental Health & Radiation Safety

- Industrial Hygiene
- Biosafety
- Ergonomics
- Radiation Safety
- Hazardous Waste
- Safety Training
- Shipping Hazardous Goods

Division of Public Safety

- Penn Public Safety
- Fire & Emergency Services
- AlliedBarton Security
- Special Guest: FBI Representative

Penn Offices and Departments

- Office of Research Services
- Green Campus Partnership
- IACUC
- IBC (Institutional Biosafety Committee)
- Penn Women's Center
- Occupational Medicine
- ULAR
- Student Health Service

Vendors

- Fisher Scientific
- Kimberly Clark Professional
- Curtis Bay Medical Waste Services
- Showa Best Gloves



Honors & Other Things

Funding to Study Nurse Practitioner Workforce Distribution and Inform Debate About Scope of Practice: Dr. Barnes

A principal goal of the Affordable Care Act (ACA) is to increase access to healthcare for all individuals. One critical aspect of this initiative is to ensure that there is an adequate number of healthcare providers to meet increased patient needs. While nurse practitioners (NP) play a critical role in extending access to healthcare by providing a range of primary and specialty care services, little is known about NP workforce distribution and whether they are working in the settings and areas of highest need. Additionally, state-level scope-of-practice laws, which vary greatly, may limit sufficient distribution of NPs into primary care and underserved areas.



Hilary Barnes

Hilary Barnes, a postdoctoral research fellow at Penn Nursing's Center for Health Outcomes and Policy Research, has been awarded funding by the American Nurses Foundation's Eastern Nursing Research Society to learn where NPs are practicing and if state-level scope-of-practice laws influence the likelihood that NPs will prac-

tice in primary care versus specialty settings.

The findings from her study, "Nurse practitioner workforce distribution and the effect of state-level scope of practice regulations on practice characteristics," have the potential to inform national debate about scope of practice and help states ensure that there is a sufficient number of primary care providers available to respond to the increasing patient demand resulting from implementation of the ACA.

Dr. Barnes' study includes co-investigators Matthew D. McHugh, the Rosemarie Greco Term Endowed Associate Professorship in Advocacy, associate professor of nursing, Robert Wood Johnson Foundation Nurse Faculty Scholar; Linda H. Aiken, the Claire M. Fagin Leadership Professor in Nursing, professor of sociology and director of the Center for Health Outcomes and Policy Research; and J. Margo Brooks Carthon, assistant professor of nursing.

Almanac On-the-Go: RSS Feeds

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2014 One Health Awards: Dr. Goren and Bridging the Gaps



Eric Goren

Eric Goren, of the Perelman School of Medicine at the University of Pennsylvania has been named the 2014 recipient of Penn's One Health Award, in recognition of his exemplary contributions to expanding interdisciplinary education and improving healthcare.

Penn's Bridging the Gaps program was also honored for excellence in interpro-

fessional service and education.

Dr. Goren is an assistant professor of clinical medicine in the Perelman School of Medicine, and holds secondary appointments at the Schools of Dental Medicine and Nursing. For the past seven years, Dr. Goren has served as co-clinic director and faculty advisor of the United Community Clinic (UCC) in West Philadelphia. UCC provides free medical, social and mental health care services to residents of the medically underserved community of East Parkside.

Through his work with UCC, Dr. Goren, in collaboration with faculty members from the Schools of Nursing and Social Policy & Practice, provides guidance to students from Penn's Schools of Medicine, Dental Medicine, Nursing, Social Policy & Practice and Arts & Sciences, who work in collaborative inter-professional teams to provide in-depth and multi-disciplinary care to patients. Students receive an unparalleled experience in cross-disciplinary delivery of health promotion services at the community level,

and gain an appreciation for the role that each member must play in ensuring comprehensive delivery of care. In recognition of his dedication and mentorship, Dr. Goren received the Provost's Award for Teaching Excellence by Non-Standing Faculty at Penn in 2012 (*Almanac* April 10, 2012) and has received eight other teaching awards in his short time on faculty.

"I'm honored to be recognized in this way, but I'm also thrilled for an opportunity to raise awareness about what other committed faculty and I are doing collectively at UCC," said Dr. Goren. "I know that this multi-disciplinary care approach is making a difference for these patients, in addition to providing a valuable and essential learning experience for the students."

The Bridging the Gaps (BTG) Community Health Internship Program (CHIP) was founded at the University of Pennsylvania and fully implemented in 1991. It began as an internship program for medical students, but soon expanded to include students from Penn's other health schools and the School of Social Policy & Practice. The program then grew to become an inter-institutional collaboration among the five academic health centers in Philadelphia (Drexel, Philadelphia College of Osteopathic Medicine, Temple, Thomas Jefferson and Penn), as well as academic health center-based programs in Erie, Lehigh Valley, Pittsburgh and New Jersey (Lake Erie College of Osteopathic



Lucy Tuton

Research and Alumni Honors: Dr. Gai

Feng Gai, Edmund J. and Louise W. Kahn

Endowed Term Professor of Chemistry in the School of Arts & Sciences, received the 2014 American Chemical Society Philadelphia Section Award. First given in 1962, this award recognizes an individual "who, by conspicuous scientific achievement through research, has made important contributions to man's knowledge and thereby aided the public appreciation of the profession." Dr. Gai is the 23rd Penn recipient to receive this award since 1962, which includes Alan G. MacDiarmid, Britton Chance and Madeline Joulie.



Feng Gai

Dr. Gai also received the Outstanding Chemistry Alumni Award from the College of Liberal Arts and Sciences at Iowa State University.

His research focuses on how proteins fold from random or quasi-random coils to their biologically functional conformations, with particular interest in the kinetic aspects of the folding mechanisms. Novel laser spectroscopic methods are being used and developed to study the early folding events and folding intermediates.

Medicine, Lehigh Valley Health Network/DeSales University, University of Pittsburgh and Rutgers).

Lucy Tuton, executive director of BTG, states that the program "strives to meet its dual mission of service and training through the provision of effective community-based health-related services for vulnerable and economically disadvantaged populations, while offering partnering community organizations an essential and valued extension to existing services."

The team that has responsibility for the Penn Component Program consists of Lucy Wolf Tuton; Ellen Martinak; Louis M. Bell, Jr.; Anthony Rostain; Peter F. Cronholm; Bridget McCormick; Susan Primavera; Ann L. O'Sullivan; Zvi D. Gellis; Joan I. Gluch; and Mary Frances Cummings.

BTG CHIP students are placed with community organizations where they work in multi-disciplinary teams. Across all the participating academic institutions, 10 to 12 health and service professions are represented each year by roughly 250 student participants. This interprofessional approach brings an array of talents to community sites and gives students the opportunity to learn about and collaborate with professions other than their own, preparing them for future cross-disciplinary teamwork.

The One Health Award, in its second year of promoting One Health initiatives and Inter-professional Education, was established by the deans of the four health schools at Penn—the Perelman School of Medicine, the School of Nursing, the School of Dental Medicine and the School of Veterinary Medicine.

The One Health concept is a worldwide strategy to expand interdisciplinary collaboration and communication in all aspects of health care for humans, animals and the environment.

APNA Award: Dr. Hanrahan

Nancy Hanrahan, Dr. Lenore H. Kurlowicz Term Associate Professor of Nursing, has been selected as the winner of the 2014 American Psychiatric Nurses Association (APNA) Award for Excellence in Media. The award will be presented at the APNA 28th Annual Conference, being held from October 22-25.



Nancy Hanrahan

Dr. Hanrahan is a national leader in psychiatric mental health nursing and known for her work documenting the psychiatric nurse workforce and her expertise in system-level mental health services research. More specifically, her research involves examining the extent to which organizational traits of patient care environments and nurse staffing are associated with patient outcomes. She is a faculty member in the Center for Health Outcomes and Policy Research at Penn Nursing, as well as a Senior Fellow of the Leonard Davis Institute of Health Economics at the University of Pennsylvania. Dr. Hanrahan is involved with state and national policy initiatives such as parity, quality indicators, creating a web-based advanced practice psychiatric nurse employment guide and reviewing RUC codes for reimbursement.

The APNA Annual Awards celebrate psychiatric-mental health nurses who inspire us with their excellence and dedication. The APNA honors members who are leaders, visionaries, scientists and much more, but who are all exemplary psychiatric-mental health nurses.

Committee on Equal Opportunities in Science and Engineering: Dr. Harkavy

Ira Harkavy, associate vice president and founding director of the Netter Center for Community Partnerships, was recently invited by the Director of the National Science Foundation, France A. Córdoba, to serve a second term as a member of NSF's Committee on Equal Opportunities in Science and Engineering



Ira Harkavy

(CEOSE), from June 1, 2015 through May 31, 2017. Dr. Harkavy was also invited to serve as vice chair of the Committee on Equal Opportunities in Science and Engineering from October 1, 2014 through May 31, 2017. Dr. Harkavy has accepted this honor and will assume the responsibilities of vice chair immediately. The Committee on Equal Opportunities in Science and Engineering advises the National Science Foundation on policies and programs to encourage full participation by women, underrepresented minorities and persons with disabilities within all levels of America's science, technology, engineering and mathematics (STEM) enterprise.

Special Recognition: Ms. Ingram

Cora Ingram, director of the Office of Multicultural Programs at Penn Engineering, has been selected to receive a Special Recognition Award in the category of College-Level Promotion at the 2014 Women of Color STEM Conference. This award recognizes professionals in higher education who lead successful, timely programs that generate interest in STEM among women,



Cora Ingram

racial and ethnic minorities and that fit the needs of society and the corporate and public sectors.

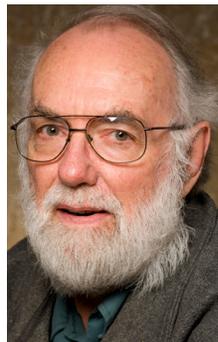
Ms. Ingram has led what is now known as the Office of Multicultural Programs at Penn Engineering since its inception in 1973. She has held a range of positions and titles over the last 40-plus years, but their common theme has been the recruitment, retention and support of underrepresented students, both at the undergraduate and graduate levels.

"Cora is a legendary force of nature in this regard, having worked tirelessly for over four decades to mentor and foster the careers of scores upon scores of students at the University of Pennsylvania and beyond," noted Eduardo Glandt, Nemirovsky Family Dean of Penn Engineering. "She succeeds because her mentees know of her genuine interest in their progress, of her efforts on their behalf and of her affection for them, which is always reciprocated."

Ms. Ingram will be presented with the award on October 24, in Detroit, Michigan.

Blue Planet Prize: Dr. Janzen

Daniel Janzen of the department of biology in the School of Arts & Sciences was chosen to receive a 2014 Blue Planet Prize, an international environmental award sponsored by the Asahi Glass Foundation. The award announcement recognizes Dr. Janzen and Costa Rica's Instituto Nacional de Biodiversidad for work on sustainable development, environmental education and conservation of biodiversity. The award will be presented on November 12 in Tokyo, Japan.



Daniel Janzen

Dr. Janzen is the Thomas G. and Louise E. DiMaura Term Chair and professor of conservation biology at Penn. He has studied and catalogued the biodiversity of Costa Rica for more than four decades, involving local people in the research and restoration work. Together with his wife, biologist Winnie Hallwachs, Dr. Janzen helped create a tropical forest reserve covering 163,000 hectares, the Área de Conservación Guanacaste in northwestern Costa Rica.

Two Blue Planet Prizes are awarded each year to individuals or organizations "that make outstanding achievements in scientific research and its application and, in so doing, help to solve global environmental problems."

Inaugural TANG Prize for Lifetime of Work: Dr. Seligman



Martin Seligman

Martin Seligman, the director of the Positive Psychology Center and the Zellerbach Family Professor of Psychology in the School of Arts & Sciences, will be honored with the inaugural TANG Prize for Achievements in Psychology, November 12, during a ceremony at the University of Toronto.

Awarded by the TANG Foundation in Toronto, the prize highlights the research and career achievements of leading scholars. Dr. Seligman was selected for his lifetime of work in psychology, which has had a long-term and substantial impact around the globe.

As a part of his award, Dr. Seligman will receive \$100,000 (Canadian).

Known as the "father of positive psychology," Dr. Seligman has generated a lifetime of research in the discipline, which applies psychological studies and interventions with the aim of proactively improving mental health and well being, rather than merely responding to mental illness.

In addition to developing the concept of and consequences related to "learned helplessness," Dr. Seligman's research has shown routes toward improving optimism, self-discipline and social engagement as well as resilience in the face of tragedy and emotional distress.

A former president of the American Psychological Association, he has received research support from the National Institute of Mental Health, National Institute of Aging, National Science Foundation, US Department of Education, Guggenheim Foundation, MacArthur Foundation, Mellon Foundation, John Templeton Foundation, Templeton Religion Trust and Robert Wood Johnson Foundation.

Almost all of Dr. Seligman's achievements have occurred during his time at Penn; he is entering his 50th year as part of the Penn community, having come to the University as a graduate student in psychology in 1964. He joined the faculty in 1972.

The TANG Prize for Achievements in Psychology honors a living internationally recognized scholar in psychology who has demonstrated creativity and rigor and whose record of achievement has left an indelible mark on the field.

Established by Fay Tang in 2006, the TANG Foundation is a private institution headquartered in Toronto. Its objective is to raise awareness of the importance of psychological health in the world, and the aim of the TANG Prize for Achievements in Psychology is to carry on its family tradition of helping others to achieve well being.

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

A Halloween Tradition Continues as *The Phantom Returns* to Irvine

The classic film, *The Phantom of the Opera* will once again be front and center at the University of Pennsylvania on Halloween, *Friday, October 31* at 4 and 7 p.m. in Irvine Auditorium.

This annual show is an opportunity to experience the 1925 silent film *The Phantom of the Opera* with live organ accompaniment. *The Phantom of the Opera* is an adaptation of the Gaston Leroux's novel of the same name directed by Rupert Julian. The film features Lon Chaney in the title role as the masked and facially deformed Phantom who haunts the Paris Opera House, causing murder and mayhem in an attempt to force the management to make the woman he loves a star. It is most famous for Lon Chaney's intentionally horrific, self-applied make-up, which was kept a studio secret until the film's premiere.

Famed improvisational organist Peter Krasinski will play on the 10,731-pipe Curtis Organ. This Halloween tradition is free and open to the public.

Peter Krasinski is a world-renowned conductor, organist and teacher, and he specializes in the art of live silent film accompaniment. Come see *The Phantom of the Opera* the way it was meant to be enjoyed as Mr. Krasinski performs on the 11th largest organ in the world.



Night of the Philly Dead: Brews and Brains!

On *Friday, October 31*, International House (IHP) will celebrate Halloween with the launching of a new, annual event, *Night of the Philly Dead: Brews and Brains!* Brew Crew Events and IHP are teaming up to bring the first Halloween craft beer and cocktail party to the Philadelphia region. From 9 p.m. until 2 a.m. there will be a zombie themed dance-party, with DJ Skeme Richards (*at right*) paying homage to the cult-classic movies, while taking the *Night of the Living Dead* series in an all-new, frightening direction, with scary-good catering provided by TV Chef Barbie Marshall, craft beer and themed cocktails included in the cost of admission. Day of event pricing: \$65/general public, \$50/IHP members.

Costumes are encouraged (there will be a competition).

Buy tickets in advance at <http://www.ticketfly.com/purchase/event/684829>



Important Tips from Penn Vet to Keep Pets Safe on Halloween

Kenneth Drobotz, chief of the emergency service at Penn Vet's Ryan Hospital, offers the following tips to keep pets healthy and out of the emergency room this Halloween:

- Keep Halloween candy out of your pet's reach. Chocolate and other treats can be potentially harmful to animals. Tinfoil and cellophane candy wrappers can also be hazardous if swallowed.
- Don't put costumes on your pets unless you know they enjoy it. If they do, make sure the costume doesn't restrict your pet's movement, vision, hearing or ability to breathe or bark. Adults should supervise pets in costume at all times.
- Keep pets away from lit pumpkins. Curious pets could be burned or start a fire if they knock the pumpkin over.
- Keep pets inside on Halloween to avoid pranksters who may harm them. This is especially important for cats, which should be kept inside for several days before and after Halloween. Black cats, in particular, may be at risk.
- Children in costumes may frighten your dog or cat. Pets should be kept in a separate room during peak trick-or-treating hours.
- If your pet is very social and you choose not to put him/her in a separate room, be sure your pet doesn't dart out when you open the door. Just in case, make sure your pets are wearing current identification.

In Case of Emergency:

As with any potential emergency, immediate attention from a veterinarian is imperative. Penn Vet's Emergency Service is open 24 hours a day, seven days a week, 365 days a year.

Penn Vet's Ryan Hospital is the only institution in the country recognized as both a Level I Facility and a verified Veterinary Trauma Center.

The Emergency Service is staffed by an integrated team of board-certified specialists who attend to each patient's emergency and critical care needs. Call (215) 746-8911 or visit Ryan Hospital at 3900 Spruce Street.

Penn Vet serves a diverse population of animals at its two campuses, which include extensive diagnostic and research laboratories. Ryan Hospital in Philadelphia provides care for dogs, cats and other domestic/companion animals, handling more than 31,000 patient visits a year. New Bolton Center, Penn Vet's large-animal hospital on nearly 700 acres in rural Kennett Square, PA, cares for horses and livestock/farm animals. The hospital handles more than 4,000 patient visits a year, while the Field Service treats nearly 36,000 patients on local farms. In addition, New Bolton Center's campus includes a swine center, working dairy and poultry unit that provide valuable research for the agriculture industry.

For more info., visit www.vet.upenn.edu

One Step Ahead

Security & Privacy
Made Simple

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

Tips for Handling Electronic Access in Employee Termination

Separating an individual from University employment can be a complicated process, especially with regards to their electronic access. Simply terminating someone in the Payroll system is not sufficient to remove access to all of the computing resources for that person. In a best practices scenario, the employee and their supervisor should work on a transition plan before the employee leaves, including inventorying all electronic access and transferring data to an appropriate data holder. This conversation should involve the Local Support Provider (LSP) as they may have insights into less obvious resources that the employee accesses.

Unexpected separations are more difficult for everyone involved and identifying computing resources the former employee had access to can be daunting. In this situation, bringing HR, the LSP and the local Security Liaison into the conversation as soon as possible will help complete electronic access removal in a timely manner. If the Security Liaison is not available, ISC Information Security (security@isc.upenn.edu) can be the point of contact to coordinate electronic access removal.

There are several resources, included below, that can help in navigating this process, including an Employee Termination Checklist available from ISC Information Security.

Remember, a Payroll system change will not impact access to systems such as BEN Financials, local server account access, VoIP phone management, departmental cloud services, etc.

Resources:

- Employee Exit IT Checklist: http://www.upenn.edu/computing/security/checklists/employee_exit_form.pdf
- Disposition of Documents and Data of Faculty and Staff who are Leaving Penn or Have Left Penn: <http://www.upenn.edu/oacp/privacy/assets/pdf/DispositionOfDocumentsGuidance.pdf>
- Privacy in Electronic Environment: <http://www.upenn.edu/almanac/v47/n04/OR-eprivacy.html>

For additional tips, see the One Step Ahead link on the Information Security website: www.upenn.edu/computing/security/

Portable 3-Year Academic Calendar

Did you know that Penn's new 3-year academic calendar is available on *Almanac's* website, Penn's mobile website and as a printable PDF?

You can also get the calendar to sync with MS Outlook, Apple iCal, Google calendar and your mobile devices by visiting www.upenn.edu/almanac/acacal.html and following the instructions from the link at the top of the page.





Flock to the Arboretum
Birds in Their Habitats: Images from the Academy of Natural Sciences of Drexel University is on display through October, in the Upper Gallery at the Morris Arboretum. Free with admission.

With more than 130,000 images, VIREO (Visual Resources in Ornithology), is the world's largest collection of bird images. The photos in this exhibit were selected to represent both resident and migratory birds that can be spotted at the Arboretum.



Unwrapping Egyptology and the Occult at Penn Museum

On Saturday, October 25 at 3:30 p.m., Steve Vinson of Indiana University will speak on *Unwrapping Egyptology and the Occult: The Curious Case of Batiscombe Gunn and Aleister Crowley* at the Penn Museum. Crowley, (above) a notorious British occultist who proudly proclaimed himself the "Beast 666," maintained a relationship with famed Egyptologist Gunn—who, along with several contemporaries, was interested in the esoteric and the occult.

Update

October AT PENN

CONFERENCE

25 *Celebration of Writing & Literacy*; participate in a day of idea sharing, community and celebrating of the great work of Philadelphia teachers from the Philadelphia Writing Project; 8 a.m.-3 p.m.; Penn GSE; register: <http://tinyurl.com/l894oea> (Penn GSE).

FILM

22 *The Square*; Arabic; 5:30 p.m.; rm. 401, Fisher-Bennett Hall (Slought).

TALK

22 *Italian Books, Authors and Readers in the Digital Era*; celebrate the 14th World Week of the Italian Language; 4:30 p.m.; Cherpach Seminar Room, Williams Hall (Italian Studies; Ciao Philadelphia).

AT PENN Deadlines

The October AT PENN calendar is online at www.upenn.edu/almanac. The deadline for the December AT PENN calendar is Tuesday, November 11.

Info. is on the sponsoring department's website; sponsors are in parentheses. For locations, call (215) 898-5000 or see www.facilities.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 **October 6-12, 2014**. Also reported were 19 Crimes Against Property (14 thefts, 2 burglaries, 2 other offenses and 1 traffic offense). Full reports are available at: www.upenn.edu/almanac/volumes/v61/n10/creport.html Prior weeks' reports are also online. —Eds.

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 **October 6-12, 2014**. 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.

10/09/14 1:43 PM 240 S 40th St Unwanted phone calls received

18th District Report

Below are the Crimes Against Persons from the 18th District: 5 incidents with no arrests (3 robberies, 1 assault and 1 rape) were reported between **October 6-12, 2014** by the 18th District covering the Schuylkill River to 49th Street & Market Street to Woodland Avenue.

10/06/14	8:25 PM	4606 Springfield Ave	Robbery
10/07/14	10:44 PM	49th/Spruce Sts	Robbery
10/08/14	8:04 AM	4712 Chester Ave	Assault
10/09/14	2:11 AM	4700 Pine St	Rape
10/10/14	7:20 PM	4400 Sansom St	Robbery



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 is PENN'S WAY

SEPTEMBER 29 – NOVEMBER 14

Penn's Way 2015 Raffle Week 4 (October 20-24) Mid-Point Grand Prize Drawing

World Travel: Two round-trip airline tickets, anywhere in contiguous 48 states, some conditions apply (\$800)

* Prizes valued at over \$100 are subject to state and federal tax. Winners are offered the option of refusing the prize.

Week 2 Winners

The Sixers: Signed photo, cap and shirt—*Christina Ricciardi*, HUP

Wilma Theater: Two tickets—*Annie Mathew*, HUP

Picnic, Inc.: Gift Certificate (\$25)—*Raymond Rollins*, PSOM

Penn Ice Rink; Morris Arboretum; Bon Appétit @ Penn Dining; Business Services' Fun Pack; Admission to Arboretum, Ice Rink, Meal @ Retail Dining—*Patricia Gambino*, HUP Corporate

Hard Rock Café: Hat and t-shirt (women's)—*Karima Williams*, School of Social Policy & Practice

Landmark Theaters: Four VIP Guest Passes—*Shawna Albany*, Pennsylvania Hospital

See www.upenn.edu/pennsway for more information about the Penn's Way campaign.

Almanac

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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 Penn website) include HTML, Acrobat and mobile 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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Can a Room Matter? Creating an Active Learning Environment for Teaching and Learning

Alain Plante

What are the elements needed to move from conventional, lecture-based teaching to active, student-centric learning? What kind of an environment is needed to make such a transition? Can the room we teach in really affect how we teach? While I had expected the answer to the final question to be “yes” when I jumped at the opportunity to be one of the first to teach in the new Bass Family Collaborative Classroom built in the Van Pelt Library, the experience proved to be far more enriching than I expected.

In a typical classroom, students are equally spaced, sitting in rows facing the front board or screen, promoting (or at least assuming) a one-to-many delivery of course content from the professor to the students. And this is how I had been teaching GEOL 421, a small, upper-level undergraduate course designed for Earth Science and Environmental Studies majors. The course content examines the processes and factors controlling the biogeochemical cycling of carbon and nutrient elements through global Earth systems (hydrosphere, lithosphere, atmosphere and biosphere), and how humans have impacted these cycles. Class sessions were structured into three 80-minute meeting times per week, consisting mostly of in-class lectures based on a textbook, with some short discussion sessions based on readings of the primary literature. One session per week consisted of a series of computer-based laboratory exercises involving modeling the principles learned from our readings using the STELLA modeling software. The STELLA modeling environment software allows students to build and run models of global elemental cycles and perform ‘what-if’ scenarios without the need to learn any programming and with only minimal understanding of the math behind the calculations. Students are required to bring a laptop with the software installed to class. In the conventional classroom, I had worked with John McDermott from SAS Computing to identify and implement specialized software that connected the students’ laptops to server software installed on the classroom computer, which allowed me to project a student’s screen to the class. The system was capable of switching from student to student or displaying several screens at one time. This was the extent to which I promoted peer learning in the conventional offering of the course. Students were able to see their peers’ progress in the modeling exercises and I was able to highlight results or make corrections.

The system and the course worked well, but either I felt constrained in my ability to implement a workshop-like environment for student learning, or thinking back, perhaps the room itself did not provide the inspiration for how such an environment could be created within its confines. The Google-provided definitions for “workshop” are: 1) a room or building in which goods are manufactured or repaired and 2) a meeting at which a group of people engage in intensive discussion and activity on a particular subject or project. While the latter definition might be more appropriate in the context of University teaching and learning, I would also argue that replacing the abstract term “meeting” with the physical space implied by the former definition is enlightening. My experience of having taught the same course in a conventional classroom and then in the new Collaborative Classroom in the Van Pelt Library in the Spring of 2014 demonstrated to me just how much a room can matter.

The Collaborative Classroom is designed with round tables seating up to six students, with each table having its own projector. The projector controls allow for the display of the instructor’s computer to any and all

projectors or the display of any given group’s computer on any and all projectors. In addition to having a wider variety of content projected, the students were now physically closer to the projected content. This became an immense boost to creating a workshop atmosphere of active, peer learning during the modeling sessions.

The class structure remained essentially the same: one lecture based on the textbook, one discussion based on primary literature and one modeling session, per week. As before, I used PowerPoint slides to highlight important points and figures from the week’s textbook or paper reading to promote student comprehension of the content. However, because the room’s projectors were now displaying on a large, continuous whiteboard wall, I began creating incomplete slides where content was either masked or missing. During several short bursts interspersed during the lecture, students would be asked to go to the board in their table-based groups and complete the slide content using dry erase markers. In some cases, they were to label a diagram, in others cases they needed to generate a bulleted list of items. I had anticipated a certain amount of student reluctance to go and write on the whiteboard, and so for the first session had set out a jar of chocolates next to the container holding the dry-erase markers. As students entered the room, they were told to take a chocolate and a marker. Whether it was the chocolate or not, the students took to using the whiteboard much better than I had anticipated. During the activities, I would circulate among the groups to provide feedback, answer questions and prompt students to dig deeper or in different directions. At the end of the activity, each table-group commented on their contributions to the rest of the class, and I provided a final reflection. The written material on the whiteboard was occasionally captured using smartphones and uploaded to Canvas for future consultation. This is, fundamentally, the functioning of “structured, active, in-class learning” (SAIL). Similar exercises were done during the class sessions that were originally designated as “discussion,” but the distinctions between what was a lecture and what was discussion became increasingly blurred as the semester passed. I had, in essence, stopped lecturing and was now circulating among the groups promoting and ensuring active learning.

The design of the Collaborative Classroom promoted active learning by facilitating interactions among the students at the table groups, interactions between table groups during certain exercises and interactions between the students and the projected lecture content. It also allowed students to work actively on their laptops using internet resources when needed. While many of the activities I did could be performed in a conventional classroom, the Collaborative Classroom made them much simpler and more natural to execute, and I am convinced that teaching in the Collaborative Classroom inspired and challenged me to incorporate a greater number and variety of active learning elements that I might not otherwise have.

The temptation is to fall back on conventional teaching techniques when in a conventional room, particularly in a large lecture hall. However, coming out of the experience knowing that I will teach again in a conventional room has inspired me to seek how I can make the conventional classroom environment work as best as it can as a workshop to promote active learning. While the room may matter, and we need many more rooms like the Collaborative Classroom, it may be just as important to transcend the room to promote active, student-centric learning.

Instructors who are interested in teaching in one of Penn's active learning classrooms can find more about requesting one of the rooms at
https://sasupenn.qualtrics.com/SE/?SID=SV_8065xcy1qXnVZsx

Alain Plante is associate professor and undergraduate chair of earth & environmental science.

This essay continues the series that began in the fall of 1994 as the joint creation of the College of Arts and Sciences and the Lindback Society for Distinguished Teaching.

See www.upenn.edu/almanac/teach/teachall.html for the previous essays.