

GW

# Arts & Sciences

THE GEORGE WASHINGTON UNIVERSITY  
COLUMBIAN COLLEGE OF ARTS AND SCIENCES

## The Caterpillar Factor

HOW WARMER TEMPERATURES IMPACT  
PLANT-INSECT INTERACTIONS

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## Childhood Obesity

INVESTIGATING GENETIC, PRENATAL,  
AND ENVIRONMENTAL CAUSES

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## Home of the Big Bang Theory

COLUMBIAN COLLEGE PHYSICS

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## A Senior Moment

STUDENT REFLECTIONS

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Spotlight

FALL/WINTER 2012

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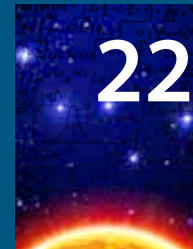
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## Dean's Message

**A**s many of you know, this is my sixth—and last—year as dean of the Columbian College of Arts and Sciences. Following the end of this academic year, I will be stepping down to move on to the next chapter in my life. I'm excited about the prospects ahead but, at the same time, I will miss the opportunity to interact with you on a regular basis. It has been a pleasure and honor to lead such a dynamic community.

I've often been asked what I am most proud of as dean of this great college. It's a hard question to answer as we are such a vast and robust center of knowledge. But what first comes to mind is the dynamic collaboration that goes on daily between members of our community. Peek inside our classrooms and labs and you'll find faculty and students exploring the genetic and environmental factors behind a child's risk for obesity, or examining the impact of maternal stress and the causes of anxiety, or analyzing the bank accounts of 19th century Irish immigrants to track the American dream.

And what we do goes well beyond campus. For example, one of our students documented his way around Europe in a wheelchair, creating a thought-provoking film on accessibility; others headed to Kenya to learn more about early toolmakers; still others are working in the field to analyze the startling impact of climate change on the life cycles of insects and plants.

You'll find these stories and more in this issue of *GW Arts & Sciences*. Of particular note is the article on the Big Bang theory, which serves as a reminder that Columbian College has long been at the forefront of collaborative discovery—after all, we were behind the current theory on the origins of the universe!

This issue also highlights the significant professional and philanthropic contributions of our alumni. From creating iPhone apps for the DC Metrorail to leading wellness programs in embattled urban neighborhoods, our alumni are making a difference. And the generosity and service of our extended community—including graduates, parents, friends, and faculty—are enabling the success of this entire university.

During my final year as dean, I plan to focus on initiatives that I believe will move Columbian College into the next decade and beyond. These include engaging in work leading to the successful completion in 2014 of Science and Engineering Hall; launching a university-wide arts initiative to establish GW as *the* venue for cultural education, research, and performance; and continuing to focus on the many aspects of GW and globalization. With the national search for a new dean of arts and sciences now underway, I'll also be working to ensure an orderly transition.

As always, I look forward to hearing from you. Please stay in touch and watch for monthly updates from us in your e-mail boxes. I also invite you to join our Facebook and Twitter conversations to keep abreast on the latest news and events. You are an integral member of our community, and we value your participation and feedback.

Sincerely,

A handwritten signature in black ink that reads "Peg Barratt". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

**Peg Barratt**

Dean, Columbian College of Arts and Sciences  
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spotlight

# The Caterpillar Factor:

“ALL ORGANISMS ARE UNDER STRONG EVOLUTIONARY PRESSURE. BUT THE PROBLEM IS THE SPEED WITH WHICH [CLIMATE CHANGE] IS HAPPENING—IT’S PERHAPS TOO FAST FOR THEM TO ADAPT.”

JOHN LILL  
ASSOCIATE PROFESSOR OF BIOLOGY

# ar

## How Warmer Temperatures Impact Plant-Insect Interactions

YOU DON'T HAVE TO BE A SCIENTIST to see the effects of climate change this year. The District of Columbia's famous cherry trees bloomed a month ahead of schedule. Mammals broke their hibernation patterns early. And, in **John Lill's** backyard, caterpillars were spotted weeks before they were expected.

These changes in timing of life cycle events for individual organisms has sparked new research by Lill, an associate professor of biology and a specialist in the area of plant-insect interactions. What interests him is how a change within one species' life cycle affects other insects and plants that move within its circle.



John Lill and Mariana Abarca  
on the rooftop of Bell Hall

“The bulk of research to date on climate change and biological manifestations has mostly looked at individual responses, such as plant species flowering a week early or birds showing up on migratory pathways two weeks ahead of schedule,” said Lill. “These independent effects of warmer winters and earlier springs have been documented for at least 10 years.”

But, noted Lill, not all organisms are responding to warmer temperatures in synchrony. “Some have speeded up, some are unaffected, some are slowed—and because individual organisms are not all responding the same way, yet they interact with one another, you can get temporal mismatches.”

Those chronological mismatches—and what they portend—are the subject of Lill’s investigation, which was launched with the support of a GW Facilitation Fund award.

“I appreciate how insects can take advantage of good conditions and accelerate their life cycles. I’m fascinated by it,” Lill said. “But it’s deeply alarming to see something that has been going on for millennia shifting so dramatically. It’s definitely worrisome.”

What about evolution, nature’s way of fixing problems? “Normally, evolution is the response,” Lill said. “All organisms are under strong evolutionary pressure. But the problem is the speed with which this is happening—it’s perhaps too fast for them to adapt.”

## A Domino Effect

PhD candidate **Mariana Abarca** shares Lill’s interest in plant-insect interactions. In fact, it was Lill’s research that drew her to GW’s Department of Biological Sciences two years ago to examine the effect of climate change on what many consider a harbinger of spring: the Eastern Tent Caterpillar. These caterpillars, which lay their eggs on cherry and apple trees, play an important ecological role, eating tree foliage, affecting tree growth, and providing food for other insects.

“What we’ve been noticing is that the caterpillars have been hatching earlier and earlier,” Lill said. The shift could have a wide-reaching domino effect on the other organisms in the caterpillars’ community, including trees, other insects, songbirds, and even mammals.

Tent caterpillars hatch from their eggs in early spring and use the sun to elevate their temperatures so they can complete development in late spring or early summer. Too much heat, however, has a detrimental effect. When fully grown, the caterpillars spin cocoons, emerge as moths, mate, and lay eggs—which remain on the tree branches until the next spring when the process starts all over again.

“They have to hang out there in the trees during the hot summer,” Abarca explained. “If the temperatures keep rising, I don’t know if they’ll be able to manage with the increasingly hot summers. The mild winters could also be



PhD candidate Mariana Abarca measures a caterpillar egg mass.



stressing them because at the egg stage, during the winter, cold weather is required.”

And if the caterpillars respond out of synch, it’s more than just the caterpillars that are affected.

For example, if climate change sparks larger caterpillar populations, then deforestation could occur. Deforestation of fruit trees can affect local agriculture—and all the organisms whose own life cycles are linked to cherry and apple trees. Also, Eastern Tent Caterpillar excrement contains cyanide, which is poisonous to some animals. The result: The larger the caterpillar population, the more toxic material produced.

Abarca is examining databases of temperatures throughout the East Coast to analyze the natural spring conditions that different caterpillar populations experience and to detect the sites where asynchrony between hatching and plant bud bursts is more likely to occur. In tandem, she is conducting field work, watching caterpillars in controlled settings at GW and in the wild at Maryland’s Seneca Creek State Park, an hour north of Washington, D.C.

What concerns her most? If the caterpillars hatch too early, the cherry trees may not have the early foliage the insects need for

nourishment. If they hatch too late, the tree leaves may have turned toxic. “I want to know if they manage to adapt to climate change or not,” Abarca said.

She’s also on the lookout for cues that trigger caterpillar hatching and traits that would allow caterpillars to cope with climate change in the absence of evolutionary response. In particular, she’s interested in whether the caterpillars might be responding to an aroma emitted by cherry tree leaves when trees begin to leaf out. Such a cue could help the insects remain synchronized with their host plants even as temperatures continue to warm.

By the time Abarca completes her PhD, she’ll have five years of data, including information on generations of the caterpillar families—offering short-term information on evolutionary tendencies. “If the parents hatch on time, will they have offspring that hatch on time, too?” Abarca asked. “That’s what I’ll watch.”

## The Global Picture

Researchers such as Lill, who are focused on shifting patterns among U.S. plants and insects, are at a disadvantage. That’s because the United States has not conducted comprehensive long-term monitoring of biological responses to weather, which means much of Lill’s time is spent in the field.

(continued, next page)



## Caterpillar Eggs in the Fridge?



John Lill's work is not just observing the repercussions of climate change on caterpillars but also manipulating it. A lab in the new Science and Engineering Hall will become the base for that work.

Not only will the new lab be bigger than the current lab space available to Lill and his growing team of students, but it will feature a specialized insect quarantine room.

"This expands the number of number of insects we can use for research," Lill said. "And it will have a natural spectrum lighting system to simulate seasonal changes in the laboratory."

Even better: In a city where greenhouse space is limited, Lill and his students will have use of a 3,600-square-foot, state-of-the-art greenhouse where they can grow trees and observe plant-insect interactions.

*To read more about Science and Engineering Hall, see next page.*

"Other countries have good historical datasets. In Britain and Japan they have long-term data that people have been collecting for centuries," Lill said. "The United States just doesn't have a tradition of doing that."

U.S. researchers rely on eclectic sources and plenty of fieldwork. Lill has even referred to author Henry David Thoreau's botanical observations. "Thoreau noted flowering times of spring wildflowers in New England and by tracking those exact same populations a century or more later, researchers found that flowering times had shifted by as much as three weeks for some species."

Thanks to a new initiative, the National Ecological Observatory Network, or NEON, the U.S. government hopes to begin addressing the dearth of records. Work began this summer to develop an open access database offering 30 years of ecological data linked to climate change, land-use change, and invasive species.

The virtual catalog of biodiversity is a project of the National Science Foundation, based on work from 62 field data sites across the United States. In addition to site-based sampling and experiments, NEON will collect airborne remote-sensing information that will help measure changes in entire ecosystems. NEON is expected to be fully operational by 2017.

Lill, who long ago thought he might go to medical school, received one of the country's first graduate degrees in conservation biology from the University of Maryland—a new field in 1992. At the time, climate change wasn't even discussed.

Now it dominates science conferences and meetings, and more students are pursuing climate change as a focus area for ecological and evolutionary research.

"My two most recent graduate students are both studying climate change," Lill noted. "And the good news is that there's funding available—from an array of sources—for this kind of research."





# GW's Incubator for Science

Laboratories equipped with the most advanced tools. Faculty and students working across the science and engineering disciplines to gain new knowledge. A state-of-the-art greenhouse to study climate change, and an imaging facility to see inside cells. These are just a few of the distinguishing characteristics of the innovative Science and Engineering Hall.

Construction continues at 22<sup>nd</sup> and H streets, future home of the complex. When the building opens its doors in 2015, it will bring together under one roof a significant concentration of discoverers and innovators and secure GW's place as the premier scientific research university in the nation's capital.

## DISCIPLINES

- Biology
- Chemistry
- Physics
- Hominid Paleobiology
- Engineering and Applied Science

## SQUARE FOOTAGE

- 400,000+ square feet total above grade:
  - 290,000 usable square feet, including teaching, research, and support spaces and faculty offices

## FLOORS

- 14 floors total
- 8 floors above grade and 2 floors below for programming
- 4 floors below grade for 379 parking spaces

## PRELIMINARY COST ESTIMATE

- \$275 million, primarily funded by:
  - lease payments from The Avenue, a mixed-use retail and housing complex.
  - indirect cost reimbursement from grants and contracts supporting faculty research.
  - philanthropic gifts from the GW community and its friends.



### CONSTRUCTION OVERVIEW

**May 2011:**  
Site work and demolition commenced

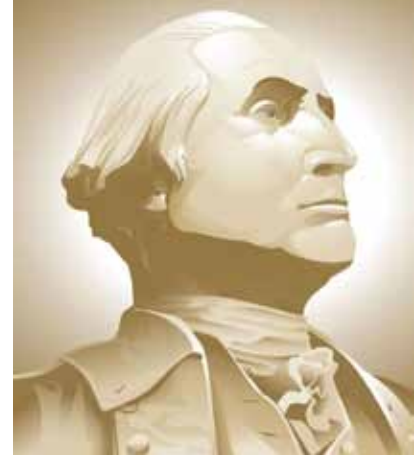
**Fall 2011 to Summer/Fall 2012:**  
Excavation, sheeting and shoring

**Summer/Fall 2012 to Summer 2013:**  
Below grade structure work

**Summer 2013 to late Fall 2014:**  
Above grade construction

**Fall 2014 Completion:**  
Landscape & streetscape installation

Old vs. New:  
George Washington's facelift  
for new GW logo



## Image Makeover: New Portrait for the 21<sup>st</sup> Century

George Washington's portrait needed a face lift. Digitally, it was difficult to reproduce. When enlarged, it became pixelated. On mobile platforms, it was distorted. And, when used as a component of GW's logo, Washington's eyes were averted away—instead of toward—the university's word mark.

The challenge was to create a new digital image, one that reflected the university's history but with a nod to modernity and the forward-thinking nature of an institution of higher learning. Artists from inside and outside the university were invited to submit their ideas. The competition was stiff and the judging was blind. Despite the odds, the design by double alumnus and GW Assistant Director for Visual Design **John McGlasson**, BA '00, MFA '03, got the winning nod.

McGlasson's computer-generated portrait shows a confident, strong-jawed Washington. It was created from the most historically accurate likeness of the nation's first president, which is a statue based on a cast of his face. A replica of that statue is in University Yard. The original was sculpted by French artist Jean-Antoine Houdon, who completed it in 1788, one year before Washington was elected president.

"Houdon was commissioned by George Washington to make the bust. It was one of only two that Washington posed for in person," said McGlasson, who studied visual communication at GW. "The photo I worked from had strong shadows that I liked. And his chin was up and confident."

McGlasson's image replaces the university's signature portrait of George Washington from an 1850 painting by Charles Willson Peale. The new image is now a key graphic element of GW's rebranded visual identity, which was unveiled in August. It will be used in brochures, ads, apparel, university websites, and other design systems.

"The format is done all digitally," said McGlasson about the modern portrait he created. "And it's done using lines and shapes, rather than pixels, so it reproduces better and does not become distorted when resizing."

Did McGlasson's job and years spent on campus as a student give him extra insight when working on the design?

"Well," he said with a chuckle, "I have spent a lot of time looking at George Washington."

THE NEW  
IMAGE IS NOW  
A KEY GRAPHIC  
ELEMENT  
OF GW'S  
REBRANDED  
VISUAL  
IDENTITY,  
WHICH WAS  
UNVEILED IN  
AUGUST.

## News Briefs

### TRACHTENBERG SCHOOL MOVES AHEAD IN NATIONAL RANKING

**U.S. News & World Report** ranked Columbian College's Trachtenberg School of Public Policy and Public Administration 12th in the country—up two spots from last year's ranking. Four of the school's programs also received accolades. Public Administration/Management and Health Policy and Management each ranked 10th, Public Policy Analysis ranked 19th, and Public Finance and Budgeting ranked 21st. *U.S. News* analyzed more than 12,000 graduate programs, including 260 public policy programs, in developing its survey. The rankings are based on expert opinions about program quality.

### NEW SYNTHETIC CHEMISTRY LAB OPENS

**G**W took the wraps off a spacious new chemistry laboratory that officials hailed as an example of the future of lab science at the university. Chemistry Department Chair

**Michael King** said renovating the former classroom offered an opportunity to model, on a smaller scale, the “new designs and new thinking” that are central to the Science and Engineering Hall project, from its air-handling system to work spaces geared toward the exchange of ideas. (See story, page 9.) The lab is now home to professors **Cynthia Dowd**, who is developing new molecules to fight diseases, and **Adelina Voutchkova-Kostal**, who is examining ways to make industrial processes less polluting and household products less toxic.

### FULL-TIME FACULTY NUMBERS ON THE RISE

**C**olumbian College has increased the total number of full-time faculty to 471, compared to 434 in 2009. Much of this growth is attributable to an ambitious five-year plan to hire a significant number of full-time faculty members to ensure a robust and diverse learning experience. Of those new hires, nearly half are women, nine

are African American, and 22 hail from countries outside of the United States, such as India, Iceland, Australia, England, Russia, and Belgium. Each is fully engaged in their profession and dedicated to scholarly collaboration with one another, their students, and the college's numerous external research partners.

### DNA PIONEER NAMED FORENSIC SCIENCES CHAIR

**J**oining Columbian College this fall as chair of the Department of Forensic Sciences



is **Victor Weedn**, a renowned forensic scientist who oversaw development of the first

portable DNA testing device that became the basis for the U.S. Postal Service's anthrax detection equipment. Weedn is also known for his work in identifying the remains of Czar Nicolas II and U.S. service members who died in World War II and the wars in the Persian Gulf, Vietnam, and Korea. He is the founder and former chief of the Armed Forces DNA Identification Laboratory, which broke new ground with the use of a laser-induced fluorescence technology, and comes to GW from the Maryland Department

of Health and Mental Hygiene, where he was assistant medical examiner.

### FACE THE FACTS: NEW INITIATIVE PROVIDES “BIG ISSUE” TIDBITS



**T**hrough election day, a mostly student team of researchers, video producers and editors revealed daily myth-busting facts about important national issues to launch the first phase of a new interactive project of Columbian College's School of Media and Public Affairs. Face the Facts USA is a nonpartisan, multiplatform content hub and civic engagement initiative seeking to help inform voters using pop culture-themed digital videos, lively infographics and extensive social media. Every day, a new fact was revealed, mined from 10 categories of national interest including debt and deficits, jobs and the economy, and health care. Initial funding for the project was provided by philanthropist Edward W. Scott, Jr. To learn more, visit [facethefactsusa.org](http://facethefactsusa.org).



spotlight

New Frontiers in the Fight Against

# Childhood



# obesity

Most obesity-prevention programs for children and adolescents focus on diet, exercise, and behavior. Associate Professor of Psychology **Jody Ganiban** thinks there may be much more to consider.

*Investigating  
Genetic,  
Prenatal, and  
Environmental  
Causes*

“THIS STUDY, WHICH FOCUSES ON ADOPTED CHILDREN, THEIR BIRTH PARENTS, AND THEIR ADOPTIVE PARENTS, IS IMPORTANT BECAUSE IT SEPARATES GENETIC INFLUENCES ON A CHILD’S BEHAVIOR FROM ENVIRONMENTAL INFLUENCES.”

JODI GANIBAN  
ASSOCIATE PROFESSOR OF PSYCHOLOGY

Ganiban, working with clinical psychology graduate students **Lara Zappaterra**, **Gina Raciti**, and **Fern Race**, is looking into genetic history, prenatal environment, and postnatal environment as possible root causes of childhood obesity—an epidemic that affects 12.5 million children and youth in the United States. The research is funded by a five-year, \$2.8-million grant from the National Institutes of Health.

“What we really want to find out is why kids are or are not obese,” said Ganiban. “The long-term goal is to understand how the home environment can mitigate or boost the impact of a child’s genetic and prenatal risk for obesity.”

Ganiban’s team hopes to learn how genes and environment may simultaneously contribute to obesity. Identifying the combinations of risk factors could open the way for individualized prevention and interventions.

For example, the study will examine if a family environment that encourages healthy eating and exercise can override genetic or prenatal risks for being overweight or obese.

To assess children’s genetic-based risk for obesity, Ganiban and her team interviewed 127 birth parents of children who had been adopted. The birth mothers were asked about their body mass index (BMI) and their pregnancies, including weight gain, stress, and cigarette smoking—factors that may have had in-utero effects and influenced metabolic processes related to weight. Postnatal factors, such as the adopted children’s family environment—particularly food, sleep, and activity levels—also are being examined.

“This study, which focuses on adopted children, their birth parents, and their adoptive parents, is important because it separates genetic influences on a child’s behavior from environmental influences,” said Ganiban. “It’s a unique population that enables us to tease apart genetic risks from environmental risks for obesity. Understanding how these risks work together could inform how we treat childhood obesity.”

The investigators, including researchers from the Oregon Social Learning Center and Pennsylvania State University, plan to look at genetic factors that previous studies showed were related to child weight.

## Implications for Treatment and Intervention

The team created an index that included three risk factors: the biological mothers’ BMI (Body Mass Index), weight gain during pregnancy, and early accelerated growth. Preliminary findings showed that children with two to three risk factors were significantly heavier than children with one or no risk factor. Even more alarming, after 4 1/2 years, the youngsters with two or three risk factors were approaching an overweight range.

this is the top of the photo...



Jodi Ganiban, left, collaborates with students on her research.



Antwan Jones

## THE NEIGHBORHOOD: A LINK TO TEEN OBESITY?

**C**OMPLEX FACTORS SEEM TO PLAY A ROLE IN OBESITY. When it comes to adolescent obesity, Assistant Professor of Sociology **Antwan Jones** thinks neighborhoods may be one of those factors.

Armed with a two-year grant from the Robert Wood Johnson Foundation, Jones is studying characteristics of neighborhoods, such as proximity to fast food restaurants and open spaces, to determine if they elevate the risk of obesity.

His research will also examine whether the act of moving to a new neighborhood, which may break long-established networks of friends, also adds to the risk.

“The stress of moving and the loss of community connectedness work in tandem to discourage adolescents from familiarizing themselves to the neighborhood amenities that exist in their new areas,” explained Jones. “Thus, they may be less likely to engage in exercise at nearby parks or [they may] rely on convenient, but unhealthy, foods at chain restaurants or neighborhood stores.”

A social demographer and urban sociologist, Jones is interested in how socio-environmental factors affect children’s health and well-being. As part of his research, he is doing a secondary analysis of data from the National Longitudinal Study of Adolescent Health, a nationally representative sample of children from across the United States. He is looking at low-income environments where there is an abundance of fast food advertising and eateries and a dearth of grocery stores and healthy eating options.

“In addition, these areas lack structurally sound playgrounds or recreational facilities and also have poor access to neighboring facilities because of inconvenient, inconsistent, limited, or no public transportation systems,” said Jones. “The combination of residing in unsafe and hazardous neighborhoods and having few to no opportunities to play, exercise, shop, and eat within those neighborhoods makes these areas particularly unhealthy places to live.”

He theorizes that physical and psychological effects from a move, or “residential instability,” could also help explain why obesity levels have tripled in the past 30 years. His analysis is ongoing, but preliminary findings showed that 78 percent of adolescents studied experienced some kind of residential instability.

“A key component to lowering obesity risks for families who may have experienced residential movement is increasing familiarity and knowledge of the neighborhood,” said Jones. “My research will point to low-cost interventions, such as neighborhood orientations for adolescents and their families that might make costly policy initiatives around improving the built environment more effective.”

“As a result,” he added, “the health of adolescents can be improved as they transition into adulthood.”

“Thus far, we found that there are independent genetic, prenatal, and postnatal risks for obesity,” said Ganiban. “Having an obese biological mother or a biological mother who gains excessive weight during pregnancy predicts children’s weight at 27 and 54 months.”

Ganiban and her team presented their preliminary findings this past summer at the Society for Prevention Research conference in Washington, D.C., and at the meeting of the Behavior Genetics Association in Edinburgh, Scotland. Graduate students Zappaterra, who is coordinating data collection across the three study sites, and Raciti, who is one of the primary birth parent interviewers, will continue to work with Ganiban on the project through the 2012-2013 academic year.

Their ongoing research could offer important clues to new treatment and prevention. Many current programs do not consider a child’s personal risk for obesity or the need to customize prevention efforts in order to avoid long-term changes in weight.

“The problem with some of the intervention studies is that they recommend that everyone exercise more or go on a particular diet, but that may not be what is needed for some kids. And it may not be extreme enough for other kids,” said Ganiban. “A lot of the recommendations focus on behavioral changes, but they don’t address what created and maintained that behavior.”



# Washington Sex Scandals:

## The Crossroads of Culture and Citizenship



“... STUDENTS QUICKLY REALIZE THAT NO AMERICAN SEX SCANDAL CAN EVER BE REDUCED SIMPLY TO THE FACTS OF THE SCANDAL AT HAND.”

CHAD HEAP  
CHAIR, AMERICAN  
STUDIES DEPARTMENT

Want to hijack the 24/7 news cycle? Bring sex and politics together.

From Republican presidential candidate Herman Cain’s alleged extramarital affairs to Congressman Anthony Weiner’s suggestive tweets, Washington sex scandals can trump weightier issues of national and international importance. Last spring, first-year students in the Dean’s Seminar “Washington Sex Scandals” looked at the public’s preoccupation with politicians’ private lives.

“In our class, students quickly realize that no American sex scandal can ever be reduced simply to the facts of the scandal at hand,” said Professor **Chad Heap**, who chairs the Department of American Studies. “They learn to look for the underlying significance of each scandal and the ways that the media, political parties, and others use politicians’ sexual indiscretions to achieve their own goals.”

Students in the seminar examined the nation’s collective attitude toward sex and sexuality

through the lens of changing social, political, and cultural norms and how media coverage affects the public’s interest in each scandal. And they didn’t focus on just contemporary controversies. They traced scandals all the way back to the Founding Fathers, including publicity surrounding the relationship between Thomas Jefferson and his slave Sally Hemings.

“Drawing on their own experiences, students are quick to suggest that the 24-hour news cycle and the proliferation of new media outlets online have contributed significantly to the growing public interest in political sex scandals and their seeming ubiquity in recent years,” said Heap. “But students are invariably surprised to learn how frequently the press reported on, or gossiped about, the sex lives of American politicians in the 19th century, usually from a partisan perspective.”

For their final projects, students examined recent scandals within the framework of media coverage. **Bailey Mohr**, for example, focused on two congressmen from New York: Republican



# Rags to Riches: IT'S WHAT'S IN THE BANK

Chris Lee and Democrat Anthony Weiner. Both resigned in disgrace after posting sexually explicit photos online.

“Even though the content surrounding the two scandals was similar, the stories received very different amounts of media coverage and scrutiny,” said Mohr. “I discovered that a politician’s response to a scandal directly impacts how that scandal plays out in the media.”

Mohr noted that Weiner’s behavior became a major media item that remained in the news for months because he made the choice to deny the story for 20 days rather than immediately admit his guilt. Not only did that prolong media attention, his story also became fodder for late night comedy.

In contrast, Lee admitted fault and resigned a few hours after his story broke on the Gawker blog. Lee “did not give the media much to report on,” said Mohr.

Class discussion addressed morality and politics, as well as how new technology affects news coverage. Students found that established media outlets, such as *The New York Times*, took a more restrained tone while blogs and “The Daily Show with Jon Stewart” were mocking and sarcastic.

“Sex scandals always provide some insight into broader transformations in American culture,” said Heap. “But what I most enjoy about teaching this class is the opportunity to learn from my students. As they discover these scandals for the first time, they bring new and diverse perspectives to the material that inevitably renews and reshapes my own understanding of the topic.”

Professor of History **Tyler Anbinder** is looking back at Irish immigrants before the Civil War to find out a very specific detail: what was in their bank accounts.

Anbinder’s study, “Moving Beyond ‘Rags to Riches’: New York’s Irish Immigrants and Their Surprising Savings Accounts,” puts Columbian College undergraduates on the frontlines of an unusual research initiative. It tracks the American Dream by following the finances of Irish immigrants in 19<sup>th</sup> century New York. The work is supported by a three-year, \$290,000 grant from the National Endowment for the Humanities (NEH).

“Our undergraduate assistants conduct the majority of the research for the project,” said Anbinder. “And with the NEH funding, we have the resources to compile and analyze records from the Emigrants Bank—the best database that we know of for the study of Americans’ savings habits in the 19th century.”

To begin the research, information from 18,000 pre-Civil War accounts, all recorded in handwritten ledgers, were scanned into online databases. **Meagan Byrne**, **Aly Seeberger**, and **Pam Neisen**, who graduated in May, along with

“OUR STUDY . . . WILL PROVIDE NEW INSIGHT ON BOTH THE ORIGINS OF THE ‘RAGS-TO-RICHES’ CONCEPT AND THE ENDURING AND EVOLVING NATURE OF THE AMERICAN DREAM.”

TYLER ANBINDER,  
PROFESSOR OF HISTORY

undergraduates **Hope McCaffery**, **Mika Ramachandran**, **Holly Firlein**, **Sara Barrack**, **Greg Hughes**, and master’s candidate **Theresa Baum**, transcribed deposit and withdrawal data as well as detailed personal information for each of the 18,000 accounts. Those details ranged from name and address to date of immigration and the name of the ships that brought the immigrants to the United States.

Anbinder and his team are now analyzing the data to see what differentiated immigrants who saved substantial sums from those who did not, and why savings of peddlers and unskilled workers were surprisingly high while those of artisans were unexpectedly low. The three-year study will also examine how social networks and heritage affected immigrants’ ability to save.

“Our work will enable historians and other humanities scholars to have a better understanding of the amount of money 19th century immigrants saved and how and why they were able to do so,” said Anbinder. “What those facts tell us will provide new insight on both the origins of the ‘rags-to-riches’ concept and the enduring and evolving nature of the American Dream.”

Collaborators on the project include **Barry Chiswick**, chair of Columbian College’s Economics Department (see story, page 29), Simone Wegge, an associate professor of economics at the City University of New York, and Cormac Ó Gráda from the University College in Dublin. Ó Gráda is the foremost authority on the Great Irish Famine of 1845-52.

# Exposing the Vulnerabilities of Social Media

As social media expands in popularity, so, too, has the volume of personal information living on the Internet. Forensic sciences master candidate **Regina Elwell** researched the vulnerabilities of Facebook and other social networking websites. The result was the report “Social Engineering Attack Vectors Using Social Media.” Using readily available tools from the Internet, Elwell illustrated how criminals and identity thieves can mine data on Facebook pages—then use the information to their advantage.

Elwell’s study highlighted the ease in obtaining information that is deemed publicly available to users through security and privacy settings, but not made accessible to the general public. She conducted her research for a master’s course in forensic sciences, taught by Professor **Eva Vincze**.

Elwell identified and analyzed four main types of Facebook hacking: phishing to trick someone into providing personal information; malicious script scams to entice users to paste text into a web browser; click jacking that results in unintentional clicks to concealed links; and session hijacking through an unencrypted cookie to track and hijack a user’s current session. Hacker tools with images—designed to deceive a user into sharing his or her personal information—ranged from a fake Facebook login screen to a page that promised to tell users, once a faulty script was reported, who had been stalking the profile.

Many Facebook users are familiar with these scams, which can also compromise the user’s “Facebook Friends.” Elwell’s research, however, illustrated how easily connections between the main user and each of the user’s “Friends” or “Friends of Friends” open exposure to private information on Facebook.

For example, many users know not to accept a Facebook Friend request from a stranger. But Elwell demonstrated that the hacker does not need to be a Facebook Friend of the main user in order to access private information. Depending on a user’s security and privacy settings, the hacker may only have to trick one of the user’s “Friends” into accepting a request.

“It is extraordinary the amount of information that users share with their ‘Friends’ and ‘Friends of Friends,’ exposing it freely to the public and the attacker,” Elwell said.

Elwell warned users to embrace basic security measures and appropriate privacy settings. She also strongly encouraged users to take responsibility for their personal information and to be discreet when deciding what is appropriate to share on the Internet.

“Social media sites can be an extremely valuable tool in such efforts as marketing and recruiting,” she said, “but it is imperative that appropriate privacy and security policies are established prior to use.”



Regina Elwell



# EUROPEAN Odyssey in a Wheelchair

Reid Davenport, above and at left, navigated Europe from his wheelchair.

**R**eid Davenport was ready for a junior year of study in Italy when he received some unsettling news: The streets and attractions of Florence and Rome were not wheelchair accessible. Disappointed but not outdone, he turned the setback into an independent film project.

“The feeling of injustice that filled me that day hasn’t dissipated in the slightest,” said Davenport, who graduated from GW in May. “What better way to explore the extent and the reasons for why modern Europe is so inaccessible than for me to take my electric wheelchair and document my European travels?”

The journalism and mass communications major, who has cerebral palsy, applied for—and received—a \$5,000 research stipend through the Luther Rice Undergraduate Research Fellowship program, which encourages mentored original student projects. He also raised \$8,000 from more than 150 donors on Kickstarter, a website that raises money for creative projects.

The funding allowed Davenport to produce “Wheelchair Diaries,” which tracked his travels in Europe.

Last winter, he spent the month of January with a videographer in Dublin, Brussels, Naples, Florence, and Paris. Along the way, he spoke with 13 Europeans involved in disability issues—including the director of a disability advocacy group and a college student who also uses a wheelchair—to learn how they handle the obstacles of “a modern society that hasn’t felt the need to accommodate its disabled citizens.”

“I wanted to share the experience of living with a disability and try to catalyze change for accessibility,” Davenport said. “I hope viewers not only get a sense of how different it is to be disabled but also, despite our differences, see how much we all are the same.”

His trip was not without struggles. Davenport grappled with airport security, a broken wheelchair, and a dearth of handicap-accessible public transportation and taxis.

“I experienced my fair share of overwhelming challenges during my trip, and I tried to capture and portray those challenges in the documentary.”

During GW Research Days in late March, a rough cut of the documentary earned third place in the Undergraduate Humanities and Creative Arts poster contest.

“‘Wheelchair Diaries’ truly is an extraordinary project,” said Assistant Professor of Media and Public Affairs **Jason Osder**, who taught Davenport in a class on digital media production and served as his faculty advisor. “Reid has exceeded expectations at every juncture, and I feel confident we will see his documentary in many film festivals in the future.”

To view the documentary’s video trailer, visit <http://wheelchairdiaries.com>.

“I WANTED TO SHARE THE EXPERIENCE OF LIVING WITH A DISABILITY AND TRY TO CATALYZE CHANGE FOR ACCESSIBILITY.”

REID DAVENPORT

## BOUND FOR CHINA: When One Class *Changes Everything*



Tim Quinn at the Jiangsu Cup Speech Competition

Some students enter a university with a roadmap of where they're headed, and they stick to it. Then there are others for which a serendipitous encounter leads down paths they never expected.

**Tim Quinn** is one of those adventurers.

Quinn's unexpected journey started when he registered for Beginning Chinese. The passion for the language that grew from that course took Quinn to China, yielded him awards in two Chinese speech contests, saw him perform with a famous Chinese actor, and earned him a scholarship to graduate school at Nanjing University.

"If I can offer any other language students a piece of advice it would be this: Always remind yourself why you decided to learn the language by getting out there and using it," said Quinn, who graduated in May. "Use language to meet new people and do new things. You never know what sort of opportunities might open up."

Shortly after Quinn began studying Chinese at GW, teaching instructor **Miaochun Wei** told him about the intensive language program in Beijing and encouraged him to apply.

Quinn studied in Beijing for six months his junior year, improved his speech, and deepened his understanding of the language. He then taught in Inner Mongolia and Ningxia for three months as a Fulbright-Hayes Fellow with the Associated Colleges in China rural education internship program.

That immersion experience forever changed his relationship with language and the people of China.

"Chinese language and culture are completely embedded within each other," said Quinn. "The more I study the language, the more I am capable of understanding the culture. And the more I learn about the culture, the better I am able to understand the subtleties within the language."

"This relationship is by far one of the most interesting things I have ever encountered," he added.

After his return from Beijing, the connection between language and culture prompted Quinn to deepen his studies. Last November, he won the Jiangsu Cup Chinese Speech Contest, which was hosted by GW in partnership with China's International Cultural Exchange Center and Nanjing University. As the winner, Quinn received a full scholarship for graduate study at Nanjing University. His win also led to an invitation to perform at the Chinese New Year Gala in Washington, D.C.

"As a freshman registering for Beginning Chinese, I never thought that four years later I would be offered such an amazing opportunity to do graduate work at a prestigious Chinese university," said Quinn. "I'm not sure where my experience at Nanjing University will take me, but you never know what sort of opportunities will open up."

## Learning Briefs

### “RESEARCH DAYS” SPOTLIGHT STUDENT INNOVATION

Senior math major **Callie Freitag** developed a mathematical model to track the spread of cholera after Haiti’s 2010 earthquake, including how the transmission correlated with rainfall. She was among more than 400 undergraduates, graduate students, and medical students who presented their research in poster format at GW’s 2012 Research Days.

Of the 15 prizes awarded for poster presentations, 13 went to Columbian College students. Outstanding work included doctoral candidate in chemistry **Hilary Melroy’s** project—conducted in collaboration with NASA’s Goddard Space Flight Center—to validate measurements of greenhouse gases, and history undergraduate **Kwasi Agyeman’s** research about African American students attending GW during its first years of existence.



### UNDERSTANDING CRIMINAL MINDS

Agencies involved in homeland security, law enforcement, and criminal justice increasingly rely on professionals skilled in forensic psychology. To match training needs in the field, Columbian College launched a new graduate program to help



prepare the next generation of criminal profilers, competency experts, psychological evaluators, and counselors.

The MA in Forensic Psychology, part of Columbian College’s Professional Psychology Program, offers two tracks: applied forensics to prepare students for employment in law enforcement or homeland security; and applied psychology to prepare students for careers as providers of direct services to clients in organizations such as correctional facilities and community action organizations. Customized internships are also built into the program.

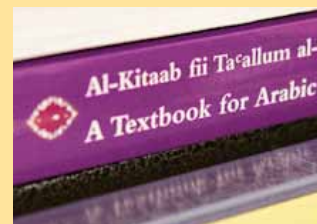


### MUSEUM STUDIES ASSISTS IRAQI CURATORS

To help war-torn Iraq restore and rebuild its cultural heritage, 23 Iraqi curators and artists traveled to D.C. this summer to participate in a month-long residency program hosted by the Museum Studies Program in partnership with the U.S. State Department. Participants toured area museums and attended classes on collections management, conservation, museum management, emergency preparedness, and museum education. GW’s Museum Studies, which is one of the top programs of its kind in the country, kicked off 2012 with a move into Washington, D.C.’s museum district. The new space at 13th and G streets, NW, provides much-needed growing room and offers students easier access to leading museums and museum professionals.

### NEW ARABIC MAJOR, MINOR CREATED

Arabic has become the fourth most popular language offered at GW and, beginning this fall, students can major or minor in the subject. “Arabic is an emerging area of study because it has growing importance in the world, and if you link that with student demand, it was a good choice as a major and minor,” said Columbian College Associate Dean for Undergraduate Studies **Daniel Ullman**.



Enrollment in the language course has quadrupled since the creation of the Arabic Language, Literature and Culture Program in 2000, with more than 700 students enrolled last year. The program is housed in the Department of Classical and Near Eastern Languages and Literatures.



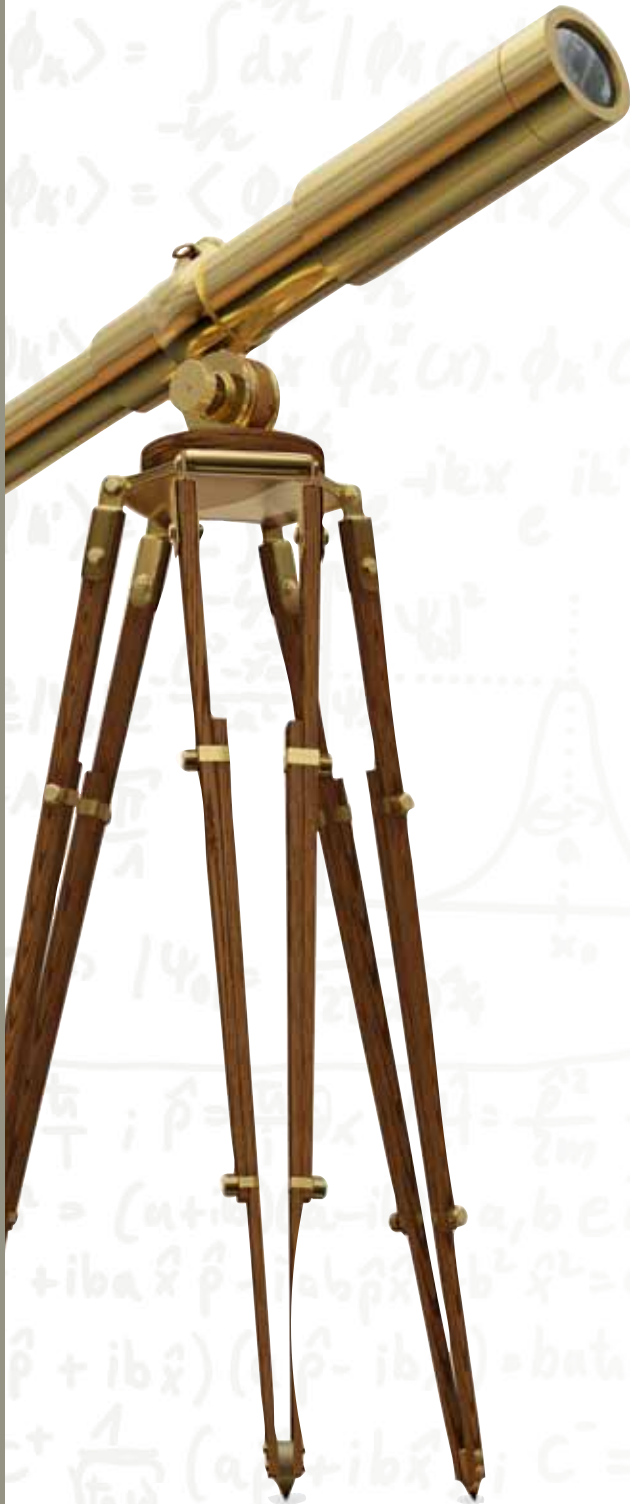
**Columbian College:  
Home of  
the BIG  
BANG  
THEORY**

by Professor William C. Parke



**Most defenses of physics dissertations attract audiences of less than a dozen people.** That was not the case 64 years ago at Columbian College when **Ralph Alpher's** defense attracted 300, including representatives of the press and members of the faculty in full academic regalia. Word had spread that a new theory of the origin of the universe would be described. The theory was developed under the guidance of GW Professor **George Gamow**, who was already renowned when he arrived at GW in 1934 for his innovative ideas in the new field of nuclear physics and, subsequently, for his animated public lectures.





George Gamow at GW's Lisner Auditorium explaining a point of science to members of the Junior Academy of Scientists in 1952

The seminal paper outlining the Big Bang theory was published as a letter to the *Physical Review* on the first of April, 1948, with the title "*On the Origin and Relative Abundance of the Elements*," with the authorship "R.A. Alpher, H. Bethe, G. Gamow." The addition of Hans Bethe's name could not be resisted by the wag in George Gamow, who liked the alliteration with the first three letters of the Greek alphabet, alpha, beta, and gamma. Bethe, who was the first to explain the energy production in the sun, was a close friend of Gamow's and agreed to being included on the paper, saying that "it may even be right!"

The " $\alpha\beta\gamma$ " paper applied Einstein's General Theory of Relativity and the new relativistic quantum theory to describe an evolving universe with a finite beginning. In the fully developed theory, near the beginning of time—about 14 billion years ago—the gravitational energy of a small new universe converted into a hot plasma of particles and light as space itself rapidly expanded and matter cooled. In the hands of Alpher and his colleague Robert Herman, the theory made two historically important numerical predictions: the relative amount of helium to hydrogen (1 to 3 by mass) in the universe and the existence of microwaved radiation left over from the time when the universe became cool enough to make atoms.

By 1948, astronomers had measured many of the abundance ratios of elements in stars. Those for hydrogen and helium agreed with the prediction of Alpher and Gamow. But with competing models and philosophic resistance, the Big Bang theory languished. In 1965, the rather accidental finding of background microwave thermal radiation across the sky at 3 Kelvin dramatically confirmed the prediction of the theory and led to a Nobel Prize in 1978 for Penzias and Wilson, the Bell Lab discoverers. By then, Gamow had passed away.

How did the theory gain the moniker Big Bang? In 1949, on a BBC broadcast, the astronomer Fred Hoyle, who had his own rival "steady-state" theory, called the work of Gamow and Alpher the "Hot-Big-Bang Theory." Even if disparagingly devised, the title stuck.





Photo from GW archives

## A Star Recruit

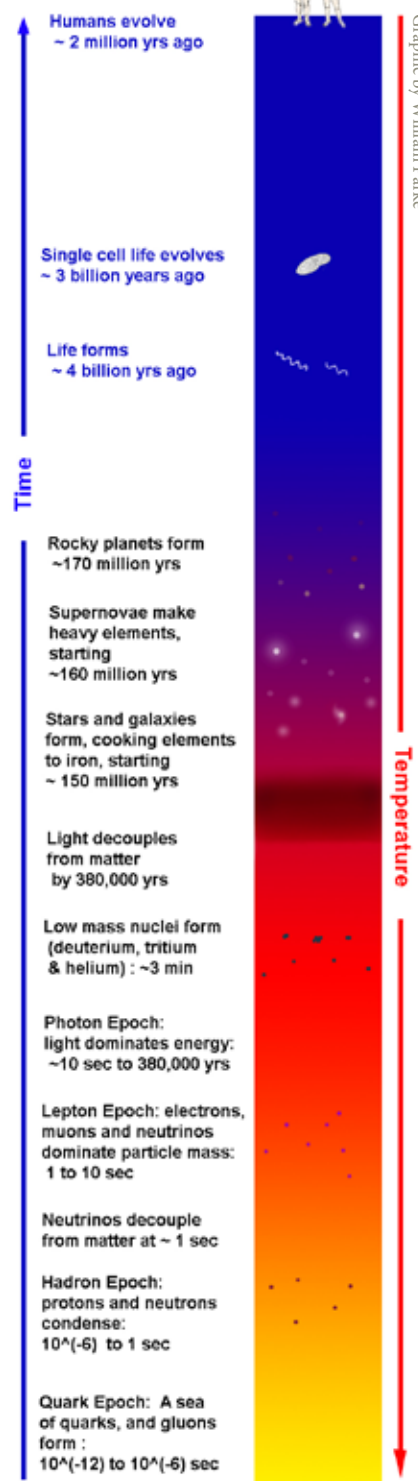
George Gamow was brought to GW by President **Cloyd Hecht Marvin**, who realized that the sciences would benefit from a prominent expert in the new quantum theory. With one, he got two: Gamow would come only if he could bring Edward Teller. By engaging Gamow, Marvin further strengthened the Columbian College faculty with a wonderfully versatile and inventive thinker. Gamow not only continued to contribute fundamental ideas to nuclear physics but also to astrophysics and even biophysics.

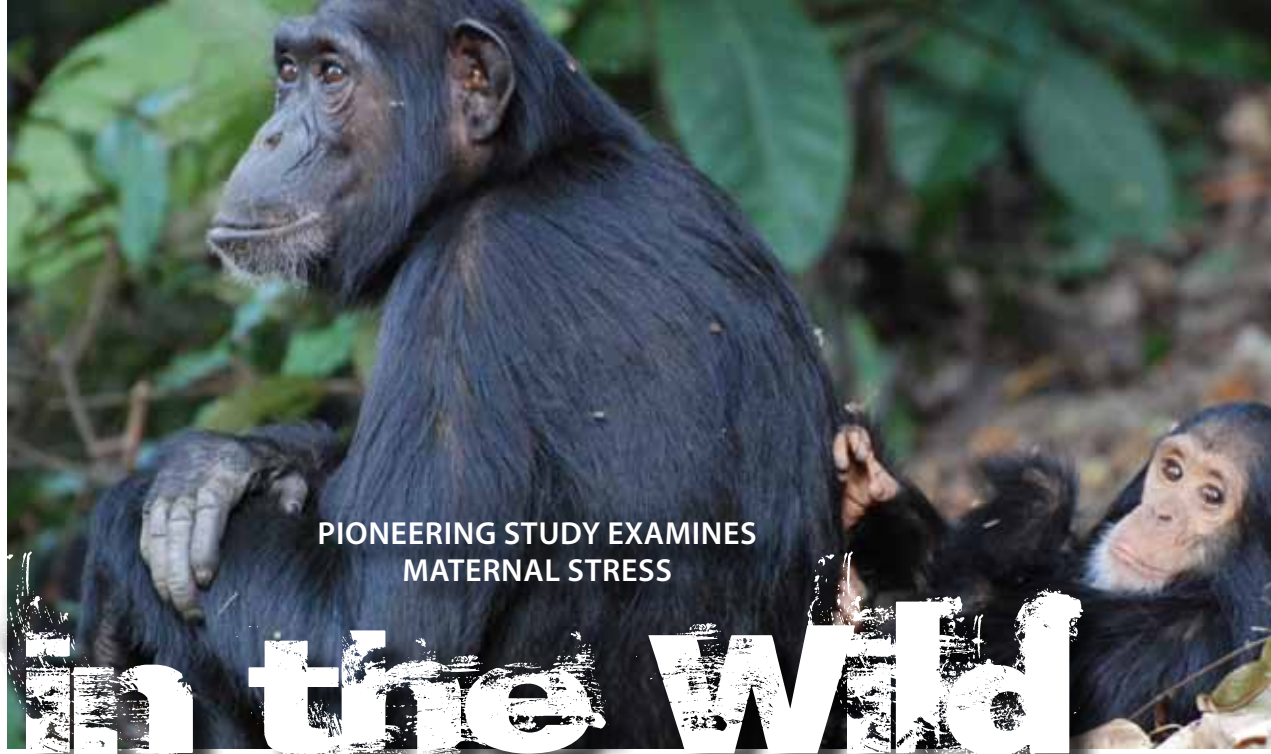
In 1956, Gamow wrote a letter to the pioneer investigators of the structure of DNA. The letter began “*Dear Doctors Watson and Crick: I am a physicist, not a biologist, and my interest in biology can be justified (if anything) only by my recently published book Mr. Tompkins Learns the Facts of Life. I am very much excited by your article in the May 30th Nature and I think this brings biology over into the group of exact sciences...*” Gamow was eager to figure out how DNA encodes the proteins of life and published a paper on the subject. The DNA model Gamow built to aid his thinking was given to GW by biophysicist Alexander Rich at the George Gamow Symposium held at GW in 1997.

In a video for the Gamow Symposium, the late Edward Teller said, “When I think of my dear friend George Gamow, I think of the simple, beautiful, straightforward ideas of physics for the sake of the great pleasure that physics and understanding can give to all of us.”

*This article’s author, William C. Parke, is a professor emeritus of physics and a former chair of the Physics Department.*

## Major Events in our Universe since the Big Bang





PIONEERING STUDY EXAMINES  
MATERNAL STRESS

# In the Wild

There is a great deal of research on mother-offspring relationships among non-human primates, but most of it focuses on animals in captivity. New research by Assistant Professor of Anthropology **Carson Murray** turns a scholarly lens on maternal stress in the wild.

Supported by a \$745,000 research grant from the National Institutes of Health, Murray is examining maternal behavior and stress physiology among wild chimpanzees. The study, one of the first to look at how environmental diversity affects maternal stress, could lead to new insights about anxiety-related disease in humans.

“My goal is to use wild chimpanzees as a model by which to explain how early experience influences offspring development and health in humans,” said Murray. “The objective is to identify key stressors in the natural environment for female chimpanzees and relate maternal stress to maternal behavior and offspring stress, health, and development.”

A long body of research has established how healthy mother-offspring relationships in humans and other mammals are key to determining offspring survival and reproduction. But because of the difficulty in examining mammals in the wild across generations, such research on non-human primates has been largely based on captive populations. Therefore, although prior studies demonstrate the transmission of maternal behavior and stress across generations, it does not take into account a full range of environments and their potential impact on a mother animal’s actions.

“Our work will reveal which parts of the mother-infant relationship are important in the short term, as measured through infant health and development, and those that have long-term consequences for reproductive success,” Murray explained.

Murray and her team reviewed wild chimpanzee data collected over the past 40 years in Tanzania’s Gombe Stream National Park by Jane Goodall and other noted anthropologists. That behavioral data, which spans three generations, offers a wealth of knowledge about evolutionary influences on maternal behavior. After culling the data, the team—including research assistant **Victoria Fiorentino**, BS, BA ’11, senior **Eva Schwartz**, post-doctoral associates **Catherine Markham** and **Margaret Stanton**, and graduate students **Jordan Miller** and **Kaitlin Wellens**—is now analyzing the fecal samples collected to determine stress hormone levels.

## PROBING THE ROOT OF ANXIETY

In human terms, the relevance of Murray’s research is indisputable. Anxiety-related disease is a growing global health concern. Researchers have found that modern living removes people from natural and familial settings, leaving them ill adapted for their environment. Murray’s research could offer better understanding of the root of anxiety and its transmission across generations.

“OUR WORK WILL REVEAL WHICH PARTS OF THE MOTHER-INFANT RELATIONSHIP ARE IMPORTANT IN THE SHORT TERM, AS MEASURED THROUGH INFANT HEALTH AND DEVELOPMENT.”

CARSON MURRAY  
ASSISTANT PROFESSOR  
OF ANTHROPOLOGY

“Looking to modern humans to understand why we have a hard time coping seems circular,” said Murray. “We are so far removed from our evolutionary context, yet we are held captive by our inertia to strengthen, not weaken, innate ties. The well-known behavioral and genetic similarities of chimpanzees to humans make them a particularly excellent and insightful model for this project.”

Murray’s research could offer knowledge about the mental, physical, and emotional health of families. It may also provide a model for positive single parenting. Two-parent care is common among humans, but male chimpanzees do not inherently participate in child rearing. Chimpanzee mothers have evolved to effectively deal with the demands of single mothering, perhaps contributing valuable insight about humans’ difficulty in such an environment.

“The results of our work will provide an interesting context in which to consider why single mothering in humans may be detrimental,” said Murray. “We will be able to effectively compare and evaluate why a successful single-mothering species, such as found in the chimpanzee population, does not easily translate to the human species in which single-parenting may have negative consequences.”

## Capital Infusion Fuels China’s Solar Industry Growth

China’s fast-growing interest in solar energy is grabbing global attention and access to capital is proving to be the most critical factor in China’s rapid solar-power expansion.

That’s according to research gathered by **Alim Bayaliyev**, **Julia Kalloz**, and **Matt Robinson**. The trio, recent graduates of the Master of Public Administration program, worked with GW Solar Institute Director **Ken Zweibel** to examine China’s expanded use of solar photovoltaic (PV) systems—technology that uses solar panels to convert sunlight into energy. The students’ work was part of a capstone project within the Trachtenberg School of Public Policy and Public Administration (TSPPPA).

Their research spotlighted China’s eight largest PV manufacturers and four non-Chinese manufacturers. The students found that China, in just a few years, has expanded its solar panel manufacturing from near zero to a level that more than doubles the solar PV market globally. Easy access to large amounts of capital was seen as a critical factor.

“The analysis by these TSPPPA graduate students puts a spotlight on the substantial revolving credit line—many tens of billions of dollars—that the Chinese PV companies can draw on during the present calamitous collapse of PV module prices,” explained Zweibel. “The Chinese are in much less danger of going out of business from the resulting losses, whereas non-Chinese companies have no such safety net and are rapidly collapsing into bankruptcy.”

The student research found that loans and subsidies for the Chinese solar companies also carried real interest rates that were significantly lower than those available to non-Chinese manufacturers, with the difference averaging 2 percent.

According to the report, China’s production of PV cells and modules has grown in just three years to account for more than 50 percent of the global market. At the same time, prices for solar modules have decreased. The students concluded that the sustainability of China’s industry in the short term would depend on how well it addresses overcapacity and captures domestic demand.

Risks to the future sustainability of China’s PV manufacturing sector include increasing transportation costs, reliance on a single type of PV technology, dependency on exports, changes to exchange rates, import restrictions on Chinese products, and rising labor rates. Chinese companies included in the study plan to address some of those risks through increased automation, reduced costs to guard against exchange rate fluctuations, and new opportunities in the domestic market.

The research, which will be shared with government agencies and scientific entities, also indicated China is likely to pursue new markets, such as Brazil, South Africa, and Australia, and push into additional PV technology, including thin film.



## What Is Jewish Culture?

BY JENNA WEISSMAN JOSELIT

George Gershwin called it Americana. Virgil Thomson called it a form of “gefилte fish orchestration,” a snide allusion to the traditional Jewish foodstuff. Both men were referring to “Porgy and Bess,” which recently enjoyed a successful run on Broadway. By Gershwin’s lights, his production, rooted in the sights and sounds of the South, was as American as could be. To Thomson, one of the most influential critics of his time, the whole thing was a Jewish enterprise, through and through.

For most of us in the audience, it matters not a whit whether Porgy and Bess bears an American, a Jewish, or a mixed pedigree. At best, it’s a sideshow, a distraction, to what really matters: the production’s emotional pull.

But maybe we’re missing out on something if we don’t reckon forthrightly with the tension between Gershwin’s perspective and Thomson’s. Maybe, we’re missing out on the opportunity to define what constitutes “Jewish culture.”

Judaism, we know about, more or less: It’s not Christianity. Secular Jewishness is also a relatively familiar concept. We recognize it when we see it, especially in the movies and on television. But “Jewish culture”? What on earth is that?

You can have a field day trying to pin down the meaning of “Jewish culture,” let alone inventory

its contents. Jewish culture is so capacious, so fluid, so open-ended a term, one is left wondering whether the definition hangs on sensibility, subject matter, or birthright. To put it another way, figuring out exactly what makes a song or a dance, a film, or an artwork “Jewish” is not for the faint of heart. And that’s just for starters. Equally daunting is the challenge of situating Jewish culture, of grounding it in a particular context, especially these days when everything’s up for grabs. Where does one find it? On the street? In the synagogue? On Broadway? At college? The local Jewish community center? At a museum? Online?

Yes, yes, and yes again—in all those places.

Some might argue that to highlight Jewish culture is to denigrate Judaism by rendering it an alternative, competing sphere of influence. Others might argue that a big tent approach to Jewish culture is a weakness rather than a strength, that it lacks discernment and discrimination. Surely, not every Rodgers and Hammerstein production is to be construed as an expression of Jewishness. Nor, for that matter, does every trinket from Israel. How, then, do we differentiate between what is and what isn’t Jewish culture? A good question.

From my perspective, “Jewish culture” doesn’t occupy one side of the ledger and “Judaism” another. On the contrary, they complete each other. As for formulating a neat and tidy definition of Jewish culture, I’m not sure I could come up with one. After all, I relish the juxtapositions of high and low, street and sanctuary, the age-old and the improvised, the opportunities for preservation as well as re-interpretation that are encompassed by the concept of Jewish culture.

In the end, Gershwin and Thomson may resist any and all efforts at reconciliation. Still, it’s not for want of trying. As both a rallying cry and as a point of departure, Jewish culture, to paraphrase Claude Levi Strauss, is good to think with.

*Jenna Weissman Joselit, director of the new MA program in Jewish Cultural Arts, is the Charles E. Smith Professor of Judaic Studies and Professor of History.*

The illustration from *Masa ha-dag*, a Jewish children's book published in Berlin in 1924, is among the holdings of the I. Edward Kiev Judaica Collection of GW's Gelman Library.

# Chiswick on the Economy *and Surge in Student Interest*



Barry Chiswick, Professor of Economics

The seminal research on labor markets and immigration by Barry Chiswick, chair of Columbian College's Department of Economics, seems particularly relevant as the nation struggles to rebound from a global recession. And the relevance is clearly cross generational: Chiswick's department reported a 10 percent increase in students majoring in economics last year.

Chiswick, winner of the prestigious IZA Prize in Labor Economics and former senior staff economist on the President's Council of Economic Advisors, spoke recently about the economy, global migration, and the rise in student interest in economics.

*Your research has helped inform the nation's public policy debate. How would you characterize the economic outlook?*

The fundamentals in the U.S. economy are sound, and the future is bright as long as we maintain an environment in which there are incentives for innovation, research and development, and investment in human and physical capital. The continued development of technology and flexibility in product, labor, and capital markets will be essential for continued economic prosperity. Maintaining low and stable rates of inflation is another key factor to prosperity and economic growth.

It is also important that we improve the quality of our educational system, from kindergarten through graduate school. This includes providing opportunities for job-related training for young people who may not be academically oriented and for older workers going through a mid-career change in occupation.

*Describe your analyses of the impact of immigration on the work force.*

My research on international migration has taught us much about how immigrants adjust to their destination in terms of earnings, occupation, language proficiency, health status, marriage, family formation, and other aspects of life in the U.S. and in major destination countries. We have also learned much about how immigration affects the host country. Just as immigrants change as they adjust to the destination, so too does the destination country change as it absorbs immigrants.

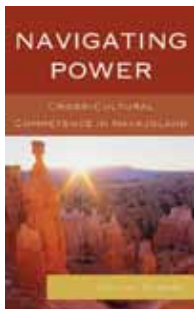
*What is behind the uptick in students majoring in economics at Columbian College?*

Economics courses offer an interesting, insightful, and exciting way of thinking that helps people understand the world in which we live. When there are problems in the economy, as we have had in the past few years, interest in the study of economics increases.

In addition, there is a very strong job market for graduates with degrees in economics. Some of our students take jobs in the federal government, at non-profit research institutes, or with international organizations, such as the World Bank and the International Monetary Fund. Others work in the private sector, including positions at consulting firms, banks, and other corporations. Some of our PhD graduates are hired by colleges and universities for teaching and research positions.

There has also been a number of changes in the economics curriculum—in the courses offered and the way they are taught—that have improved the learning experience and attracted more majors. For example, we added honors sections in intermediate microeconomics and intermediate macroeconomics, and each of those now includes a calculus requirement. We also added math assessments to the Principles of Microeconomics and Principles of Macroeconomics courses, as well as tutorials to improve math skills, and we enriched the curriculum with new elective courses, such as Health Economics, that are helping to pique student interest.

## Selected NEW BOOKS by Columbian College Faculty



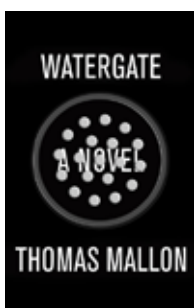
### *Navigating Power: Cross-Cultural Competence in Navajoland*

Assistant Professor of Organizational Sciences **Gelaye Debebe** believes that groups with weaker political power have a firm grasp of the culture of those in control. But that doesn't necessarily mean cross-cultural interactions are smooth.

Unlike those who speculate that differences

between the groups arise from culture clash, Debebe theorizes that they stem from historical sensitivities. Her new book, *Navigating Power: Cross-Cultural Competence in Navajoland*, is a scholarly examination of how those differences affect cross-cultural relationships.

The author uses qualitative data culled from the interaction between an Anglo organization and a Navajo organization. She concentrates on two conflicting patterns of behavior: ignoring and suppressing context, and reading and writing context. Debebe concludes that conflicting political groups must form a collective, cross-cultural competence in order to overcome cultural bias.



### *Watergate: A Novel*

In *Watergate: A Novel*, seven characters provide the lens through which the drama—and comedy—of the Nixon White House are revealed. The novel by the Director of the Creative Writing Program

**Thomas Mallon** takes readers on a journey through iconic locations, including Camp David, the U.S.

Senate Caucus Room, the District of Columbia jail,

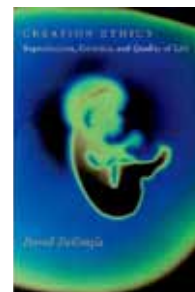
and the Dupont Circle mansion of Theodore Roosevelt's daughter, to where the cover-up began: the Watergate complex.

*Watergate*, like Mallon's previous historical novels, blends extensive research with imagination to put a new spin on the often-told scandal that brought down a presidency. Mallon never strays from the basic facts, but he takes creative liberties with the book's rich dialogue and the roles played by two fictitious supporting characters. The novel captures the peculiar combination of unbridled ambition, incompetence, overconfidence, and deceit that led to the crisis in American government.

### *Creation Ethics: Reproduction, Genetics, and Quality of Life*

Reproductive rights are a political and social lightning rod in the United States, encompassing abortion, embryo research, procreative responsibilities, and genetic engineering. Professor of Philosophy **David DeGrazia** provides a scholarly analysis of the ethics of human procreation in his new book *Creation Ethics: Reproduction, Genetics, and Quality of Life*.

DeGrazia addresses the issues from a moral philosophy perspective, shedding new light on the ethics issues touching human reproduction topics. His conclusions provide a subjective account of the criteria for responsible procreation and parenting, as well as a theoretical link between contrasting ethical theories on the creation of human life.



### *Prove It On Me: New Negroes, Sex, and Popular Culture in the 1920s*

After the Great Migration took thousands of African Americans from the rural South to flourishing cities in the North, a philosophy of modernist cultural expression and powerful self-government evolved. This philosophy defied white oppression and created opportunities for racial progress. But it also embraced a role for black women that fulfilled other groups' cultural and political needs.

*Prove It On Me* by Assistant Professor of History **Erin D. Chapman**

examines racial politics and the portrayal of black women in 1920s popular culture, as well as how black women asserted their own modern, racial identities during that decade. Among other things, Chapman analyzes advertisements selling the blues woman to black and white customers in a "sex-race marketplace," the moral beliefs of New Negro advocates of "race motherhood," and the voice of New Negro female authors and immigrants who confronted these degrading topics.



## Research Briefs

### PLAY BALL: ANCIENT SOCIETIES EMBRACED THE GAME

Baseball may be the national pastime in the United States, but ball games in the Americas go back many centuries. Recent research by Associate Professor of Anthropology **Jeffrey Blomster**



reveals how ancient ball games in Mesoamerica carried great symbolism, from the uniforms worn by the players to the ball court itself.

“Exploring the origins and spread of the ball game is central to understanding the development of the Mesoamerican civilization,” noted Blomster, who found the game infused with themes around life and death, mortals and underworld deities, and symbols for the sun and the moon. In some instances, the ball court represented a portal to the underworld. His findings also indicated that ball games were played in Mexico from 1700 BCE to 1400 BCE, earlier than previously believed.

### STUDYING THE ETHICS BEHIND PERFORMANCE DRUG USE

Young men in college believe it is a greater ethical breach to use performance-enhancing drugs for athletic gain than to use prescription drugs like Adderall or Ritalin to boost academic achievement. That’s what Assistant Professor of Psychology **Tony Dodge** and

her colleagues found through an online questionnaire of 1,200 male college freshmen.

“What is most interesting and curious to me is that using Adderall to succeed in school and using steroids to succeed in sports are really quite similar yet they are viewed differently,” said Dodge. She speculated that the discrepancy stems from the costs of cheating, i.e. being deceitful to improve athletic abilities costs the competitor a win while taking a drug to boost performance on an academic exam does not necessarily come at a cost to others.

### ELEANOR ROOSEVELT PAPERS: NEW VOLUME, NEW SITE



Following years of intensive work by students and staff, Volume II of the *Eleanor Roosevelt Papers*—covering 1949 through 1952—has been released. In tandem with publication of the volume, the *Eleanor Roosevelt Papers* Project launched an interactive “First Lady of the World” web site that allows users to track Roosevelt’s treks through the Pacific and Great Britain during World War II, the Middle East and Asia in the early 1950s, and the Soviet Union in 1957.

The *Eleanor Roosevelt Papers* Project is a university-chartered research center associated with GW’s Department of History. Undergraduate and graduate interns on the project are

currently adding details on the first lady’s travels to Central and South America, Morocco, Japan, and postwar Germany.

### ENGLISH BOASTS ACCLAIMED SCHOLARS

Professor of English **Gayle Wald** won a coveted



Guggenheim Fellowship to complete a book based on the

groundbreaking 1960s public television program “Soul!” This marks the second time in two years that a faculty member in the English Department received a Guggenheim Fellowship. **Jeffrey Cohen** received the honor in 2011.

Novelist **Thomas Mallon**, director of the Creative Writing Program, has been inducted into the renowned American Academy of Arts & Sciences.



Mallon is the author of eight books of fiction, including his recently published and highly acclaimed *Watergate: A Novel*. (See page 30.)

### LAESI TECHNOLOGY RECEIVES TOP BILLING

The Laser Ablation Electro-spray Ionization (LAESI) DP-1000 Direct Ionization System—created and developed by the Vertes Research Group, led by Professor of Chemistry, Biochemistry, and Molecular

Biology **Akos Vertes**—has received a 2012 R&D 100 Award.

Issued by *R&D Magazine*, the awards ranked LAESI as one of the 100 most technologically significant products of the past year. The technology allows researchers to quickly determine the chemical composition of a very small biological sample, providing a powerful tool in biological and chemical sciences. This latest award follows earlier accolades by *The Scientist* magazine, which named LAESI a top 10 invention of 2011.

### LICHT RECEIVES \$1.69 MILLION FOR SOLAR ENERGY RESEARCH

Professor of Chemistry **Stuart Licht** received a \$1.69 million grant from the National Science Foundation’s Sustainable Energy Pathways Program to expand his research using the Solar Thermal Electrochemical Photo (STEP) conversion process he developed and patented. STEP offers a carbon-dioxide free method of producing iron that could provide a “green” solution to an industry that



has used the same polluting process of iron smelting for three thousand years. The solar conversion process makes it possible to more easily extract pure metal iron from hematite and magnetite, the two prevalent iron ores.



# A Senior Moment: Student Singer

EMOTIONS RUN HIGH  
WHEN GRADUATING  
SENIORS SAY GOODBYE  
TO FRIENDS AND FACULTY,  
TAKING WITH THEM  
MEMORIES ALONG WITH  
THEIR DEGREES. THE  
FOLLOWING IS A  
SAMPLING OF SOME  
FAVORITE MOMENTS  
FROM THE CLASS  
OF 2012.

“Though I entered undecided, it only took one sociology class to convince me that was the major for me. In Professor **Michael Wenger’s** Race and Minority Relations class, my paradigm for understanding society completely shifted. Sociology was an academic area that spoke not only to my interests, but also my passions. A good professor can do that: marry your academic coursework with what is in your heart. That class changed my life and my academic and career trajectories.”

*Chelsea Ullma, BA Sociology*

“Last summer, I went to Brazil with GW’s University Singers. Even though I didn’t know the language, I was able to connect quickly and easily through music with the university students from Rio de Janeiro and São Paulo, sharing with them the excitement of learning and collaboration.”

*Daniel Kaufman, BA Music and Environmental Studies*

“Professor **Paul Carrillo’s** Econometrics class was one of the hardest and most gratifying classes I have ever taken. The course gave me the tools to read, critique, and conduct empirical research. It was like learning a new language.”

*Andrea Cristina Ruiz, BS Economics*

“For my University Writing final paper, I interviewed the prominent singer-songwriter Eric Hutchinson and went to his show, all in the name of research. It was cool as a freshman to interview someone who had been on David Letterman!”

*Shawn Kelly, BA Special Interdisciplinary  
Major in Arts Administration*







# Reflections

“As an anthropology major, it is very important for me to see the world from outside of the classroom. I was lucky enough to participate in an archaeological dig with Professor **Eric Cline**. We spent the summer digging at Tel Megiddo in Israel with Tel Aviv University. It was the best hands-on learning that anyone could ask for.”

*Rebecca Kahn-Witman, BA Anthropology*

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“My favorite academic experience has been participating in Habitat for Humanity. One of my interior design professors, **Nancy Evans**, takes her classes each semester to Ivy City in Northeast D.C. for a day to build. I attached siding to the outside of a house and climbed up onto a roof to nail sheathing onto the rafters. It was really fun to get out of the studio and help serve the community.”

*Emily Davis, BFA Interior Design*

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“I took Professor **Dennis Shell’s** Psychology of Spirituality course as a freshman [but] struggled with the material. He showed me that teaching, for him, goes beyond the classroom. It’s not just about lecturing or giving exams but working with students so they can achieve their best. I met with him several times each semester since that spring of 2009.”

*Katrina Valdes, BA Psychology and Communication*



## Early Toolmakers: THE SECRETS BEHIND ROCK BANGING

**W**hy were some early humans able to shape stone tools while others were not? **Erin Marie Williams**, a post-doctoral scientist in hominid paleobiology and winner of the L’Oreal USA Fellowship for Women, is banging rocks together to find out.

While it sounds—literally—like an activity fit for a caveman, the rock banging is part of sophisticated research project. Working closely with Professor of Anthropology **Brian Richmond** in GW’s kinematics motion capture laboratory, Williams undertakes experiments that reveal how humans use their arms and hands to create stone tools and flakes.

And now, thanks to the generosity of **Michael Thacher**, BA ’70, and his wife, Rhonda, there is a new instrument to help Williams in her research.

In Williams’ experiments, a test subject is fitted with finger and wrists sensors, protected by a glove. These sensors collect information, including the levels of energy and pressure the subject uses while gripping a tool or forming a tool by knocking a rock against another rock or bone. The information is fed to a control box, which transfers it to software on Williams’ computer, mapping the data into graphs and charts.

Without the box, the sensors would not be able to communicate with the software. And without the Thachers, there would be no box.

To enable Williams and Richmond to conduct their experiments without relying on borrowed equipment from another university, the Thachers donated \$20,000 to Columbian College to purchase a Pliance pressure measurement control box (ppm).

“I’ve long been fascinated by the origins of *Homo sapiens*—how and why our brains grew, our hands and thumbs became so useful, and we became bipedal,” said Michael Thacher. “This research explores many of these areas. Funding the purchase of a ppm seemed like it could really make a practical difference in the lab.”

The Thachers’ gift also made possible a summer research trip to Ileret, Kenya, where some of the first tools were made 2.6 million years ago. Richmond took a group of graduates, undergraduates, and post-doctoral fellows from GW and the Smithsonian Institution to test the ppm system on rocks native to the region.

Back in the lab, Williams looks at the size and shape of flakes (sharp stone tools), energetic efficiency, and target accuracy. By recording the pressure points and grips of research volunteers as they created stone tools, she can understand how raw materials and upper-limb biomechanics affect stone tool production. Her findings also help explain how stone tool production and use connects to the evolution of the human hand and wrist.

Williams’ work is not the first that has attracted Michael Thacher’s attention. A member of the National Council for Arts and Sciences since 2000, he established the Thacher Fund for Philosophy in 2001 for use at the discretion of the chair of the Department of Philosophy. He also supports GW through annual contributions to the Department of Philosophy and the Department of Anthropology.

“I give to GW for several reasons,” Thacher said. “I’m grateful to the university for offering me a second chance and for stimulating and expanding my intellect. I want to have an impact on the university and to set an example that continues in the years ahead.

“And I give because so many others gave before me,” he added. “Their generosity made my education possible. Now it’s my turn to help new generations of students and researchers.”

Erin Marie Williams demonstrates use of equipment donated by Michael Thacher, right.





Reid Wilson

## CONFESSIONS OF A *Professional Political Junkie*

By the time most people are waking up, **Reid Wilson**, BA '05, has read dozens of newspapers and blog posts from across the United States. As editor-in-chief of *National Journal Hotline*, Washington's daily tip sheet on campaigns and elections, he wouldn't have it any other way.

"I love politics. I love the game of it," said Wilson, who studied classical humanities and archaeology while a student at GW. "I get to be a sportscaster for the only game that matters. We're at this seminal moment in American politics where not one but both parties are reinventing themselves fundamentally."

By 6 a.m., Wilson is poring over stories about Senate races, gubernatorial races, House races, and, of course, the presidential race. Consequently, he possesses a "horrible hidden skill" of knowing the entire "Senators" category on Jeopardy. "The way people love baseball stats, I love political stats," he explained.

His love of politics started in elementary school. In the early 1990s, his parents took him to meet his state legislator, who drew pie charts and explained budgets to the second grader.

Wilson followed his legislator's career—watching Gary Locke, the current U.S. ambassador to China, serve as governor of Washington and as President Barack Obama's first commerce secretary.

Wilson knew that he'd go into politics in some form or another. He enrolled at GW because it was the "right location, with the right set of programs to sustain an intellectual interest and allow for professional development.

"I couldn't have chosen a better place," he said.

His first job out of college was as an assistant to former GW student **Chuck Todd**, who was running *Hotline* at the time. He then worked on a presidential campaign in 2008 and realized that he was much happier writing about politics than practicing it.

Wilson opened RealClearPolitics.com's Washington bureau, then worked for *The Hill* newspaper, where he covered congressional politics and campaigns. Before taking over *Hotline's* top job, he edited the popular *On Call* blog.

So what advice does Wilson have for aspiring politicians?

"This city runs on confidence. If you act confident enough, you can walk into any room in this town. Nobody will hand you anything, you have to take it," he said, noting that there is a fine line between confidence and arrogance. "But overall, if you treat people well, keep a smile and good attitude, and act like you belong, nobody's going to say no."

Alumna  
Madeleine  
Jacobs on

## Career & Philanthropy

In the more than four decades since she earned her degree in chemistry, **Madeleine Jacobs**, BS '68, HON '03, has found a place in science, championed philanthropy, and gained insight into the unexpected way careers are made. She credits GW for providing a solid platform for her success.

Jacobs, the first woman executive director and CEO of the American Chemical Society in its more than 130-year history, has seen great shifts in the profession of chemistry. A member of Columbian College's National Council for the Arts and Sciences and a new member of the GW Board of Trustees, she has had a prominent career in science writing and journalism, public affairs, and science administration at the National Institutes of Health, the National Institute of Standards and Technology, and the Smithsonian Institution.

She also served as the first female editor-in-chief of *Chemical & Engineering News* magazine.

"The field of chemistry has changed enormously in the past four decades, and I have been a witness to that change," Jacobs said. She characterized the 2008-2009 economic downturn as the "reset event."

"The new normal is that fewer people are being hired by chemical and pharmaceutical companies in the U.S. than in the past. Although unemployment for chemists is still quite low compared to the national average, it is higher than it has been in nearly half a century," she added. "So there are challenges in the job market."

Jacobs advises new graduates and seasoned professionals alike to be flexible, creative, and innovative. And she encourages them to consider working in smaller companies, for startups, or even launching their own firms.

"Employers are looking for problem solvers and critical thinkers. Chemists have those skill sets, and they need to deploy them in many ways," she said. "I always advise students to follow their passion. If they do, they will be successful."



"THE FIELD OF CHEMISTRY HAS CHANGED ENORMOUSLY IN THE PAST FOUR DECADES, AND I HAVE BEEN A WITNESS TO THAT CHANGE."

MADELEINE JACOBS

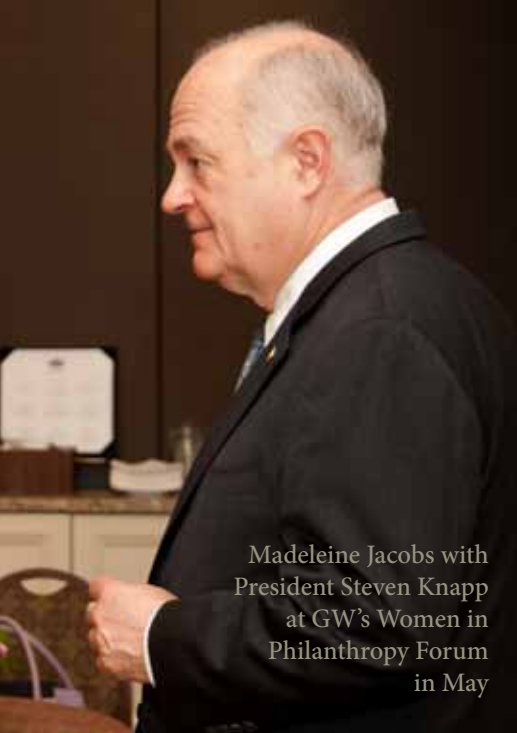
Jacobs said her GW experience prepared her well. Professors provided personalized attention—not just in chemistry, but in English and other courses—and she had exceptional mentors as an undergraduate. A full-tuition scholarship allowed her to try courses in other fields.

"That enabled me to have breadth, as well as depth, which has enabled me to be successful in a complex world," she said. "And, of course, the campus, being so centrally located in Washington, D.C., enabled me to explore all the riches this great capital city has to offer."

In tandem with career came a commitment to philanthropy.

"I believe it is important to give back to society if you have been blessed with success," said Jacobs, who served as a panelist at GW's Women and Philanthropy Forum in May. "Now that

## HOW WELLNESS EMPOWERED A NEIGHBORHOOD



Madeleine Jacobs with President Steven Knapp at GW's Women in Philanthropy Forum in May

I am in a position to help others, I take enormous pleasure in doing so.”

But she added a caveat: “I do want to see outcomes.”

Jacobs said she targets her philanthropy in order to make sure it has an effect. “I have my own metrics of success and can see the outcomes of my contributions, whether they are in young peoples’ careers or in a symphony orchestra,” she explained.

Most of Jacobs’ philanthropy is focused on providing educational opportunities. Among other educational programs, she has endowed the Madeleine Reines Jacobs Undergraduate Fund in Chemistry and is also a strong proponent of GW’s Power & Promise Fund, which provides support for talented students, regardless of their financial situations.

“Higher education today is very expensive and out of reach of many people. I want to do whatever I can to help GW help others like me, who could not have afforded a great education without a scholarship,” Jacobs said.

“I want to take the message of GW’s Power & Promise to other alumni and even non-alumni to help realize the vision that President Knapp and the Board of Trustees have,” she added. “I want to see GW’s prestige grow and grow.”

**S**arlane Leigh, MA ’09, turned a spotlight on wellness in an embattled District of Columbia neighborhood—and discovered the strong sense of community that can spring from health initiatives and services directed toward women.

In Washington, D.C., “East of the River” refers to Anacostia. A historic neighborhood with some impressive architecture and a Smithsonian museum, Anacostia is also associated with high unemployment, poverty, and crime. Despite that, Leigh found the neighborhood imbued with a powerful sense of community. She has leveraged healthy living to fuel that solidarity.

“The community wants more than the standard colorful health pamphlets and one-day workshops,” said Leigh, who moved to Anacostia when she enrolled in Columbian College’s Women’s Studies Master’s Program. “Regular yoga classes, healthy cooking classes, and honest conversations about health have helped ignite change from the inside out.”

In pursuing her graduate degree, Leigh focused on the effects of socio-economic issues on women and the modern family. Her thesis detailed how women in Sierra Leone used spirituality to recover from war-related trauma. That theory became personal when Leigh turned to the spiritual, mental, and physical discipline of yoga to combat grief after the death of her mother in 2003.

Following graduation, it was that discipline she turned to once again after discovering

there was plenty of discussion about Anacostia’s health issues but a dearth of services addressing the problems. Yoga became part of the solution.

“After reading the dismal statistics about pollution in the Anacostia River, women and HIV, the obesity rates, and the income disparities, I couldn’t find any resources for the everyday resident on how to prevent these problems,” said Leigh. “I was inspired to put health on the table.”

In 2009, she began teaching free yoga classes at Covenant House, Barry Farms Recreation Center, HEAT (Health Exercise Attitude Training) Haven, and neighborhood community centers. She earned certification as a Pilates instructor and expanded course offerings, focusing on a culturally customized approach to health.

“We see measurable change in our community, and I want to expand that,” Leigh explained. “Blogging and teaching yoga is an easy, affordable, and accessible way to share information about preventive health services. All it takes is one nail to start building a house.”

Leigh uses her blog, *Anacostia Yogi*, as a catalyst for change. The blog carries information on wellness programs, yoga classes, and health-related volunteer opportunities in Anacostia. And she plans to replicate her work in innovative health programming in other communities where low-income women face health challenges. She is currently developing ventures in the Bronx, Oakland, and Chicago’s south side.



Sarlane Leigh

## Support and Service Briefs

Datuk Thomas George



### MILESTONE: 250,000 LIVING ALUMNI

The graduating Class of 2012—with more than 7,000 students—pushed the number of living GW alumni to more than 250,000, a first for the university. Alumni are spread across 150 countries and stay connected to GW thanks to 20,000 GW Alumni Association LinkedIn groups and an online community of 38,000.

### RIISING TO THE CHALLENGE

Together with 3,744 fellow graduates, Columbian College alumni made a \$100,000 difference in philanthropic support. Last winter, an alumna volunteer leader issued a generous challenge: If 3,600 alumni gave to the university by March 31, she pledged to give \$100,000 to Columbian College. Because of the outpouring of support, the challenge was met and the college received an additional \$100,000 for students and faculty. Thank you alumni donors!

### PRIME MOVERS MEDIA GAINS TRACTION

Prime Movers Media, the nation's first journalism mentorship program to focus on urban high schools, is exceeding expectations thanks to high-profile partnerships with top multi-media organizations.

Housed in Columbian College's School of Media and Public Affairs, the program sends journalists and GW student interns into 10 underserved high schools to teach critical thinking, writing, and technical skills. Program director **Dorothy Gilliam**, an award-winning columnist for *The Washington Post* and former J.B. and Maurice C. Shapiro Fellow at GW, created the program eight years ago in collaboration with the university. In addition to the *Post*, other organizations providing funding and mentorship support include National Public Radio, Thompson Reuters, Widmeyer Communications, and The White House Correspondents' Association, which showcased a video about the program during its annual dinner last spring.

### METRO MASTERS

A better ride on D.C.'s Metro? There's an app for that. Earlier this year, **David Glidden**, BA '11, and **Andrew Thal**, BA '11, rolled out their \$2.99 Metro Master application for the iPhone and iPod Touch. Along with arrival times and a map of D.C.'s Metrorail system, the app shaves minutes—and headaches—off commutes by letting riders know where to board the train in order to get out of the destination station fast. How does it work? A "Heat Map" component of the app shows where the train is the most crowded.



David Glidden, left, and Andrew Thal

### A CAREER WORTH NOTING

**Datuk Thomas George**, MPA '86, has led a remarkable career in public service. He served as the secretary general of two major Malaysian ministries,



authored books on public management, worked in leadership roles at Malaysia's National Institute of Public Administration, and helped Britain's Commonwealth Secretariat improve public administration in Africa and the Caribbean. Last spring, he received the Pi Alpha Alpha Public Service Award from the Trachtenberg School of Public Policy and Public Administration in recognition of his noted leadership in the public sector.

### STEPPING UP TO SERVE

This year, the George Washington Alumni Association named eight Columbian College alumni to its Board of Directors: **David Brunori**, BA '84, **Morgan Corr**, BA '07, **Anne Cutler**, BA '81, **Andrew Dixon**, BA '92, **Michael La Place**, BA '85 and MS '89, **Judith Rosen Lipner**, BA '76 and MA '78, **James Quinlan**, BA '00, **James Walker**, BS '07, and new President-elect, **Steve Frenkil**, BA '74. They join other board members working to strengthen the relationship between alumni and the university. The





## Dear *Columbian College Alumni, Parents, Friends, Faculty, and Staff:*

board collaborates with the Office of Alumni Relations to implement new programs and services for GW alumni.

### ALUMNAE NAMED AMONG WASHINGTON'S 100 MOST POWERFUL WOMEN

Columbian College of Arts and Sciences alumnae **Beverly Perry**, BS '76, and **Theresa Fariello**, BA '85, appeared on *Washingtonian Magazine's* "Top 100 Most Powerful Women" in 2011. Fariello is the vice president of Exxon Mobil's Washington office, leading the Washington lobbying arm of the world's largest publicly traded oil company. Previously, she headed the Office of International Affairs in the Department of Energy.

Perry is a state and federal lawyer and the senior vice president for external affairs at Pepco, where she is responsible for the company's philanthropic activities and government affairs in the Washington metropolitan area. Formerly, she was chairman of the Washington Convention and Sports Authority.

As an alumna, I could not be more proud of what is happening at the George Washington University and in the Columbian College of Arts and Sciences. With the Science and Engineering Hall under construction, high-profile faculty being recruited, and new academic programs and exciting research underway, I am also energized by the promise of what is ahead.

Much of my optimism stems from the generosity of my fellow alumni. Among the donor-driven initiatives that are benefiting from philanthropic support are GW's Science and Engineering Hall, the GW Power & Promise Fund for student financial assistance, and the Dean's Fund to support student seminars, faculty projects, capstone courses, and research fellowships.

It is with great appreciation that we recognize the generous individuals and organizations in this Honor Roll of Donors. This list recognizes donors who have made a gift from July 1, 2011 to June 30, 2012 designated to the Columbian College, as well as Columbian College alumni who have made a gift to any area of the university.

Remember: Your gift, no matter the size, is an investment in students and faculty with the passion and capacity to change the world.

With sincere appreciation,

Pamela Lawrence, BA '76  
Chair, National Council for Arts and Sciences  
Senior Vice President, North Shore Medical Center

#### STAY CONNECTED WITH YOUR ALMA MATER AND DON'T MISS OUT ON:

- News and information from Columbian College and your department
  - Invitations to professorial lectures, the Culture Buffs series, networking nights, and other alumni events
  - Exclusive benefits, such as the alumni travel and course audit programs, career services, and facility and library access
  - Volunteer opportunities to connect with students and fellow alumni
- Visit [alumni.gwu.edu](http://alumni.gwu.edu) for more details on all we offer our alumni community and be sure to update your contact information at [alumni.gwu.edu/update](http://alumni.gwu.edu/update).

## Columbian College Honor Roll of Donors

FISCAL YEAR 2011  
(JULY 1, 2011–JUNE 30, 2012)

### L'ENFANT SOCIETY



*The L'Enfant Society is named for the architect of the city of Washington, Pierre-Charles L'Enfant, whose vision guided its growth. The most prestigious of GW's gift societies, the L'Enfant Society recognizes donors whose generosity and foresight have a transformational and enduring impact on GW. Membership is extended to individuals, corporations, and foundations with annual or cumulative giving totals of \$5,000,000 or more in outright gifts.*

Gail and Philip Amsterdam\*+  
J. B. & Maurice C. Shapiro Charitable Trust  
Charles E. Smith Family Foundation+  
Robert H. Smith Family Foundation+  
Jay E. Katzen, M.D.  
Theodore N. Lerner, Esq. and Annette M. Lerner  
Clarice R. Smith+  
David Bruce Smith+  
Robert H. Smith\*+  
The Churchill Centre  
Robert L. Weintraub\*

### 1821 BENEFACTORS

*Established in 2004, this society was named in honor of the year the university was founded and embodies both the spirit of GW and the spirit of private philanthropy. Membership is extended to individuals, corporations and foundations with annual or cumulative giving of \$1,000,000 or more in outright gifts.*

Anonymous	Howard Hughes Medical Institute	Theodore N. Lerner, Esq. and Annette M. Lerner	The Communitarian Network
ARCS Foundation, Inc.+	Mark V. Hughes, III and Susan D. Hughes+	Mary Jean and Thaddeus Lindner+	The Ford Foundation
B. Jay Baraff, Esq.	Jenny McKean Moore Fund for Writers	Lockheed Martin Corporation	The Henry Luce Foundation, Inc.
Grace M. and Morton A. Bender	John D. and Catherine T. MacArthur Foundation	Lucille P. Markey Charitable Trust	The Richard Eaton Foundation, Inc.+
Luther W. Brady, Jr., M.D.+	Juvenile Diabetes Research Foundation International	Edward W. Scott, Jr.	W.M. Keck Foundation
Kathleen J. Carr and Oliver T. Carr, Jr.	Mildred S. Katzen+	Midge F. Smith	Estate of John T. Walton+
Gilbert Cisneros, Jr. and Jacki Cisneros+	Morton I. FUNGER+	The Alfred P. Sloan Foundation	Albert Wang
Amitai Etzioni+			Wilbur V. Harlan Scholarship Trust

### GEORGE WASHINGTON SOCIETY

*The George Washington Society was named to honor the forward-thinking spirit of the university's namesake, whose vision has guided GW's growth. Membership in the George Washington Society is extended to alumni and friends whose annual or cumulative giving totals \$500,000 to \$999,999 in outright gifts. Grandfathered members with lifetime giving over \$100,000 are included.*

Carlos P. Aguinaga	Julius Fleischman*	Marvin L. Kay	Walter R. Roberts
Anonymous	Elizabeth E. Force	James C. King+	Lori L. and Steven S. Ross
Ansar Batool and Munir Kazmir	Mary Anne B. Frey+	Kerry Kuhn, M.D. and Gail Kuhn+	Deborah Ratner Salzberg
David R. Berz, Esq. and Sherry K. Berz	David Friedman	Eugene I. Lambert, Esq. and Janet V. Lambert+	Marilyn M. Schoenbaum+
Anne E. Brown	Christopher J. Fussner+	Seymour Lifschutz, M.D. and Phyllis Lifschutz	Carol K. Sigelman+
Philip Brown, Esq. and Donna Brown+	John T. Gaffney, Esq.+	Elizabeth St. J. Loker and David Rice+	Larry Silverman*
Mortimer and Ruth Caplin+	Lynn D. George, M.D.	Christian and Edna March	Michael and Rhonda Thacher+
Elsie M. Carper*	John J. Grosso, Jr.	Richard Marmaro, Esq. and Susan Marmaro+	Stephen Joel and Francine Zorn Trachtenberg+
Sheldon and Faye Cohen	Nancy J. Lippman Halis+	Holly and Asghar Mostafa	Dorothy P. and Robert L. Tull
Nancy G. Daunton+	Sol J. Hazan, M.D.	Ralph Ochsmann*	James A. Turner+
Bert Deixler, Esq. and Leslie Swain, Esq.+	Kathleen M. and Lawrence A. Hough	Brian J. Ratner, Esq.	Ted Turner
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Melissa Fairgrieve	Jonathan S. Kahan, Esq.+	Carl E. Ring, Jr.+	William Warren+
Carol B. Fischer	Candace and Lawrence Kaplan+		Judith B. Weintraub+
	Lawrence J. Kaplen, Esq.		Elissa Wernick and Great Neck Richman+

### THE TEMPIETTO CIRCLE OF THE HERITAGE SOCIETY

*The Tempietto Circle of the Heritage Society, named for the tempietto ("little temple") that stands as a campus landmark in Kogan Plaza, recognizes those individuals who have made a planned gift of \$500,000 or more in outright gifts to the university.*

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Roye L. Lowry+  
Paul R. McClenon+  
John B. Nutter  
Mildred H. Robins

**1941**  
Edward A. Amendola+  
John W. Bengtson+  
Elsie M. Carper\*  
Courtland H. Davis, Jr., M.D.+  
Grail G. Dawson  
Howard W. Ennes, Jr.  
Edwin A. Gee+  
William Kurstin, M.D.+  
Faith S. Miller+  
Phoebe O. Nicholas+  
Mina B. Pollard  
Dorothy A. Rosenberg  
William E. Schmidt  
Geraldine A. Schneider

**1942**  
Florence C. Cassidy  
Harry Cohn  
Anne C.  
Dunbar-Richman, M.D.+  
Elise R. Fisher+  
Irma N. Greenspoon+  
Harold N. Kagan, M.D.  
Zoe M. Largess  
Seymour Lifschutz, M.D.  
Mary O. Walters  
Virginia K. Watson+  
William W. Zeller, M.D.

**1943**  
Samuel W. Adams, Jr., M.D.+  
Dolores Morganston Allen\*  
Harry Cohn  
Rita T. Durand+  
Gertrude Geiger  
Elsa D. Glass  
Evelyn P. Lederer+  
Richard A. Littman  
Mary B. Lowry+  
Nelson S. Marans  
Barbara H. Marshall  
Louise E. McKenzie  
Franklin P. Michels+  
Margaret N. Miles\*  
Faith S. Miller+  
Frank N. Miller, M.D.+  
Robert M. Naiman, M.D.  
Phoebe O. Nicholas+  
Mina B. Pollard

Harry Schechter+  
William E. Schmidt

**1944**  
Davette E. Abkowitz+  
David M. Bates  
Laura B. Bishop  
Luther W. Brady, Jr., M.D.+  
Rita T. Durand+  
MonaJeanne Easter+  
Edwin A. Gee+  
Margery G. Glass  
Avonne A. Hartshorn+  
Margaret L. Huddleston+  
Nelson S. Marans  
Barbara H. Marshall  
Elizabeth Rochfort  
Mildred H. Sargent  
Jack P. Segal, M.D.+  
Shirley M. Stuntz+  
Betty A. Thompson, Esq.+  
Richard F. Wallis  
Mary O. Walters  
Charlotte Whitney+  
Edwin C. Wood, M.D.+

**1945**  
Davette E. Abkowitz+  
Dolores Morganston Allen\*  
Lorene B. Benning  
Laura B. Bishop  
Marjorie T. Bralove  
Ruth C. Burg  
Martha G. Cartwright+  
Margery G. Glass  
Ruth E. Graves  
Lee S. Harrow+  
Marjorie Hensley+  
Patricia C. Hogan+  
Margaret P. Jenks  
Mildred S. Katzen+  
Evelyn P. Lederer+  
Daniel B. Levine  
Mary B. Lowry+  
Marylane L. Meryman  
Winifred M. Miller+  
Mary L. Murphey+  
June R. Pollack, M.D.+  
Rennie G. Quible  
Donna D. Sorden  
Richard F. Wallis  
Lorraine A. Weinberger, Esq.+  
Charlotte Whitney+

**1946**  
David M. Bates  
Marjorie T. Bralove  
Elizabeth D. Brigham  
Albert Buckberg+  
Jane D. Buzalski+  
John J. Cound+  
Martha H. Cullen+

Lee S. Harrow+  
Avonne A. Hartshorn+  
Harold S. Heffron+  
Ellen L. Herd+  
Patricia C. Hogan+  
Margaret L. Huddleston+  
Mary A. Hurd  
John E. Johnson+  
Mildred S. Katzen+  
Katherine K. Lyon  
Winifred M. Miller+  
Mary D. Mulcahy+  
Mary L. Murphey+  
Theodore P. Perros+  
Rennie G. Quible  
Eleanor A. Robb+  
Elaine M. Rosenberg  
Mildred H. Sargent  
Shirley M. Stuntz+  
Betty A. Thompson+  
Lorraine A. Weinberger, Esq.+  
Martha T. Wineman+

**1947**  
Bernard Aiken+  
Duard R. Barnes, Esq.+  
A. G. Bishop  
Phyllis K. Brigham  
Albert Buckberg+  
Jane D. Buzalski+  
Lewis M. Chapin  
Herman E. Cox, Esq.  
Martha H. Cullen+  
Martha G. Davis  
Alice E. Duncan  
Bernard H. Ehrlich, Esq.+  
Myles R. Garrigan  
Elizabeth R. Gleason+  
Ruth E. Graves  
Richard I. Haxton  
Arthur S. Henschel  
Marjorie Hensley+  
Edwin N. Henson, Jr., Esq.  
Oma M. Higgins+  
Eileen M. Hutchinson, Esq.+  
Margaret P. Jenks  
George S. Jordan, Esq.  
Ann P. Kahn+  
Fritz R. Kahn+  
Harold T. Lamar  
Bess B. Lavine+  
Daniel B. Lavine  
Jean L. Linton+  
Helen O. Lynch  
Russell C. McDonough+  
Marriner K. Norr  
Lowell R. Palmes, Esq.  
Lorraine D. Pannill  
James T. Pearce\*  
Ann A. Pilgeram+  
Elaine M. Rosenberg  
Evelyn R. Schmitt+

Emanuel J. Sedlacek  
Aaron Silverman, Esq.+  
Paul A. Thomas, M.D.+  
George G. Veily  
Helen A. Vigness  
Michael J. Vitale, Esq.+  
Virginia K. Weise  
Clyde E. Whitley

**1948**  
Stanley L. Berlinsky  
William Bogen, Esq.  
John P. Bohan+  
Elizabeth D. Brigham  
Xavier M. Brock, Jr.  
John D. Bultman  
Jules I. Cahan, M.D.+  
Seymour Chalfin  
Marvin B. Clifford  
Philip H. Clinton, M.D.  
Lawrence Cohen  
Sheldon S. Cohen  
Barbara J. Corday  
Maryanna E. Dotson, M.D.+  
Henry A. Dusseault+  
Arvilla K. Enck  
Richard J. Evans  
Grace C. Ferrill, Esq.+  
James E. Forcum  
Philip E. Franklin  
Eleanor S. Gardner  
Myra M. George+  
Elizabeth R. Gleason+  
Barbara M. Goldberg+  
Elizabeth K. Grinnell  
Mary G. Grunditz+  
Richard I. Haxton  
Gregory T. Henesy, M.D.+  
Ellen H. Heyman+  
George O. Hook+  
Frances D. Howell+  
Mary A. Hurd  
Edith H. Johnson+  
Fritz R. Kahn, Esq.+  
Peter S. Karadimos  
James F. Kavanagh+  
Kathryn A. Kavanagh+  
Bernard J. Kune, Esq.+  
Annavee F. Leslie  
Gerald H. Lessuk, Esq.  
Jean L. Linton+  
E. Eugene Luther  
Joseph Macekura  
Hugh I. Martin  
Patricia G. McGee  
Edna H. Metzinger  
Albert J. Modlin, M.D.  
Lois A. Nixon  
George W. Nordham  
Thomas A. O'Dea, Esq.+  
Mildred B. Pacl  
Lorraine D. Pannill

Spero J. Pappafotis+  
Laura M. Phillips+  
Mary W. Rasmussen  
Richard L. Reeves  
Mabel C. Richardson+  
Amil E. Rose  
Sam Rosen, Esq.  
Miriam F. Ross+  
Bette M. Rothstein  
Joseph Y. Ruth  
Jack C. Shnider  
Stanley M. Silverberg, M.D.  
Betty B. Soderberg  
Carol R. Waganheim+  
Zelick Waganheim+  
Charles P. Wales+  
Richard F. Wallis  
Virginia K. Weise  
Robert K. Wineland, M.D.+  
Alvin I. Yurman  
Richard C. Zasada

**1949**  
David Applestein, Esq.+  
Frank W. Bauers, Jr.  
Joanne T. Bauers  
Robert M. Berish  
Stanley L. Berlinsky  
Thales Bowen+  
John F. Bullough+  
Charles W. Chapman  
Elise J. Clark  
William G. Clark, Esq.  
John J. Cound+  
Margaret B. Davis  
Thomas J. Dougherty, Esq.  
Robert F. Feltman, Esq.+  
Mariana A. Fitzpatrick  
Myra M. George+  
Harry B. Glazer+  
Mary A. Gore  
Edward Hacsckaylo  
Charles Hanley, Esq.+  
Forest K. Harris, M.D.  
Robert L. Harrow+  
Elizabeth D. Haynes  
Sol J. Hazan  
Arthur K. Hendrix  
Robert R. Hudson+  
Esther D. Johnson+  
John E. Johnson+  
Ann P. Kahn+  
James F. Kavanagh+  
William R. Kearney, Esq.  
Adolphe C. Kiczales, M.D.  
James C. King+  
George T. Kunz  
Bess B. Lavine+  
Marion G. Lawrence  
Murray K. Lee+  
Donald W. Lief  
Douglas E. Lindsay+

William S. Lyons, M.D.  
Christian L. March  
Daniel W. Martin\*  
Juell R. Ness+  
George W. Nordham  
Anne S. Noyes  
Richard R. Owen, M.D.\*+  
Kenneth W. Parkinson, Esq.+  
Theodore P. Perros+  
H. W. Peterson+  
Ann A. Pilgeram+  
Bennet A. Porter, Jr., M.D.+  
Gerry L. Raker+  
Paul D. Ring, Esq.  
Betty R. Roberts+  
Wilbert J. Robertson  
Miriam F. Ross+  
Virginia B. Ruff  
Julia H. Rush  
Joseph Y. Ruth  
Rayleona F. Sanders  
Paul H. Schellenberg+  
Harry D. Seybert+  
Philip R. Sheridan, Esq.  
Jack C. Shnider  
Randall Shoemaker, Jr.  
Samuel L. Simon+  
William H. Squire  
Charles P. Wales+  
George W. Williams+  
Robert C. Witham  
Yvonne I. Worden+

**1950**  
Francis A. Antonelli  
Carl E. Balli, M.D.+  
Maxine S. Balli+  
Joanne T. Bauers  
Richard N. Baylinson, Esq.  
Lloyd K. Belt  
John D. Bultman  
Francis H. Burns, Esq.  
Patricia W. Carlson+  
John L. Chaney, Jr., Esq.+  
Malcolm C. Clark+  
Beverly P. Currier+  
Anita S. Curry+  
Martin T. Davis, M.D.  
Esther H. Dresner+  
Permelia B. Eggerton+  
Joseph Esmail  
Mariana A. Fitzpatrick  
James E. Forcum  
Robert N. Ford, Esq.+  
Philip P. Friedlander, Jr.  
Vilma C. Gagliardi+  
Eleanor S. Gardner  
Natalie L. Giusti+  
Harry B. Glazer+  
Mary A. Gore  
Warren Gould+  
Frederick A. Gunn

# honor roll

Edward HacsKaylo  
Eleanor B. Halak+  
Virginia L. Harrold  
Elizabeth D. Haynes  
Ellen H. Heyman+  
Mary Ann Y. Iverson  
Kathryn A. Kavanagh+  
James C. King+  
Joseph F. King+  
Jennie M. Latino+  
Annavee F. Leslie  
Thaddeus A. Lindner+  
Douglas E. Lindsay+  
Christian L. March  
Gerald N. McDermott  
Irving Michael+  
Robert C. Minor+  
Margaret Mitchell  
Mary D. Mulcahy+  
Richard L. O'Connor  
Lindley C. Pugh, Jr.  
Joseph E. Rawlings, Jr., M.D.+  
Richard L. Reeves  
Wilbert J. Robertson  
Donald C. Rosenthal  
Wilmer S. Schantz, Esq.  
William E. Schmidt  
Jean M. Seybert+  
Elizabeth T. Shelton  
Judith H. Shreve  
Elaine S. Simon+  
Lorraine N. Tyler  
Harold S. Watkins  
Herman J. Ziegler, Esq.+

## 1951

Maxine S. Balli+  
Samuel W. Barrow, Jr.+  
Donald M. Bisbee+  
Erwin A. Bondareff, M.D.+  
Esther L. Brenner  
Edward B. Brittin  
Frank P. Burford  
Patricia W. Carlson+  
Elise J. Clark  
David I. Cohen+  
Beverly P. Carrier+  
Thomas J. Dougherty  
Eugene Ebert, Esq.+  
Robert A. Elliott+  
Thomas C. Embrey+  
Edward Engel  
Elaine J. Entwisle+  
Mary A. Evans+  
Hazel S. Fackler  
Philip P. Friedlander, Jr.  
Warren Gould+  
Elizabeth K. Grinnell  
Janet W. Hartley+  
Marjorie Hensley+  
Ellen L. Herd+  
Frances D. Howell+  
Ellen M. Humphries

George E. Hutchinson+  
Edwin R. Itnyre, Esq.  
Douglas R. Johnson+  
Alfred H. Kaye, Esq.  
Stanley S. Kidwell, Jr.+  
Henry H. Kipper  
Aredis V. Kojoyian  
Herbert L. Kotz  
Jennie M. Latino+  
Marion G. Lawrence  
Murray K. Lee+  
Edward Y. Liang  
Albert L. Lloyd, Jr.+  
Bertha M. Lohrmann  
Raymond J. Malloy  
Eva C. Maskaleris  
Nancy N. McCabe  
Rachel B. McComb  
James F. Merow+  
Joan F. Merow+  
Gregory R. New+  
Anne S. Noyes  
Nina S. Olin+  
Phyllis F. Oram  
Amy S. Owen+  
Richard L. Pentecost  
Laura M. Phillips+  
Geraldine F. Pilzer, Esq.+  
Myrta W. Price  
Helen B. Pruden  
Diana W. Richardson  
Rayleona F. Sanders  
Joel Selbin  
George F. Sengstack, M.D.+  
Eugenia B. Smith  
Frank M. Steadman, Jr.  
Charles R. Tyler  
Helen A. Vigness  
Robert J. Weigand+  
Carl W. Wertz  
Yvonne I. Worden+

## 1952

Albert W. Brand, Jr.  
Janice I. Broner+  
Frances O. Burford  
Frank P. Burford  
Anne B. Chason  
Claude I. Coffey  
Jack R. Cooper  
Anita S. Curry+  
Carolyn O. Dale  
Donald S. Detwiler  
Eugene Ebert+  
Edward Engel  
Hazel S. Fackler  
Robert N. Ford+  
Morton I. Fungor+  
Vilma C. Gagliardi+  
Judy F. Geller+  
Linda L. Glew  
David E. Goldberg  
Sylvan Goldin

Virginia L. Harrold  
Leo Hellerman+  
Patricia F. Highet  
Mary Ann Y. Iverson  
Kathrine C. Jaouni  
James W. Johnson+  
Danforth Joslyn, Esq.+  
Myles C. Kaye  
Phyllis M. Knowles+  
Gloria B. Krakes  
Edward Y. Liang  
Donald W. Lief  
Rose G. Low+  
Andrew A. Luhtanen\*+  
Raymond J. Malloy  
Milbrey E. Martin  
Rachel B. McComb  
Richard C. McCullough  
Janet R. Menetrez+  
Marriner K. Norr  
Gene F. Ostrom+  
Stephen S. Pappas, M.D.  
David Paulson  
Theodore P. Perros+  
H. W. Peterson+  
Laura M. Phillips+  
Rose Mary A. Renick+  
Warren C. Robinson  
Kenneth R. Samuelson  
Mary A. Schnitzer+  
Judith H. Shreve  
Julian L. Siegel, Esq.+  
Abbie O. Smith+  
Richard O. Spencer  
Martha S. Stanger  
Edward M. Statland, Esq.  
Sheila M. Tiedemann+  
Lorraine N. Tyler  
Vilma Vojta+  
Robert O. Wells, Jr., Esq.  
Jan Wojtowicz, Jr.\*

## 1953

William G. Applestein, Esq.+  
LeRoy H. Barnard, Jr.+  
Eleanor Beatty  
Claudia S. Boswell+  
Patricia R. Braker  
William P. Braker  
Esther L. Brenner  
Edward B. Brittin  
Janice I. Broner+  
Frances O. Burford  
Charles H. Clark  
Malcolm C. Clark+  
Elizabeth H. Clifton  
L. Dayton Coe, II+  
Damon N. Cordon  
John G. Fletcher+  
Yancey H. Garner+  
Lynn D. George, M.D.  
Natalie L. Giusti+  
Linda L. Glew

Elena T. Goff  
Philip A. Gragan, Esq.+  
Russell C. Grunsten, M.D.  
Sandra S. Hall  
John F. Holup, Jr.  
Ellen M. Humphries  
Robert C. Huston, Jr.+  
Ethel V.A. King  
Arthur Kirsch  
Carolyn B. Knobler+  
Herbert L. Kotz, M.D.  
Joseph H. Kullback  
Penelope B. Laingen  
Steven E. Levy, M.D.  
G. Franklin Lowe, M.D.+  
James R. Matthews\*  
Anne C. McGinnis+  
Lorita S. McLeod  
Janet R. Menetrez+  
James F. Merow+  
Beale H. Ong, M.D.  
Phyllis F. Oram  
Gene F. Ostrom+  
Richard L. Pentecost  
Jayne H. Plank+  
A. James Rudin  
Rayleona F. Sanders  
Joel Selbin  
Joseph M. Sizoo  
Eugenia B. Smith  
Carl W. Wertz  
Paulette Whitcomb  
Louis E. Windecker  
Margaret K. Wisdom

## 1954

Melrose B. Adams  
Walter L. Baumann, Esq.+  
John F. Bullough+  
John D. Bultman  
Sally A. Cacheris+  
Jack R. Cooper  
Damon N. Cordon  
Evelyn H. Curry  
Allan I. Decker  
Donald S. Detwiler  
Ruth Dickerson, M.D.  
Vello Ederma  
Helen W. Englert+  
Diane E. Epstein+  
Barbara A. Farley+  
Thomas A. Farley+  
Edmund H. Feldman+  
James E. Forcum  
Howard E. Frushtick  
Catherine H. Gainey  
Judy F. Geller+  
David E. Goldberg  
Sylvan Goldin  
Edward HacsKaylo  
Barbara S. Harvey+  
Patricia F. Highet  
Frances D. Howell+  
June J. Hoyer+  
Richard S. Hudgins  
Ann T. Kashiwa  
James C. King+  
Gerald R. Lynch+  
Judith M. Martin+  
Milbrey E. Martin  
Shirley A. Massie  
Joan F. Merow+  
Nora B. Morton  
Gerald J. Paparella+  
Frances H. Playfoot  
Elizabeth C. Preston  
Katharine M. Reynolds  
Peter M. Rich  
Warren C. Robinson  
Elizabeth Ruiz+  
Leonard D. Saslaw  
Walter Shropshire, Jr.  
Marvin P. Sirkis, D.D.S.  
Virginia E. Spector+  
Mark F. Spies  
Martha S. Stanger  
Sheila M. Tiedemann+  
Rosa D. Wiener, Esq.

Howard R. Roberts  
A. J. Rudin  
Nancy W. Sappenfield+  
Marion F. Selbin  
Myron P. Shevell  
Frederick W. Shipman, Sr.+  
Irwin Shuman, M.D.+  
Virginia E. Spector+  
Bob L. Sturm  
John W. Thorne, III+  
Elizabeth M. Thornhill  
Carol D. Vardeman+  
Herbert W. Ware, II+  
Herbert Weissbach  
Walter S. Wingo

Howard R. Roberts  
A. J. Rudin  
Nancy W. Sappenfield+  
Marion F. Selbin  
Myron P. Shevell  
Frederick W. Shipman, Sr.+  
Irwin Shuman, M.D.+  
Virginia E. Spector+  
Bob L. Sturm  
John W. Thorne, III+  
Elizabeth M. Thornhill  
Carol D. Vardeman+  
Herbert W. Ware, II+  
Herbert Weissbach  
Walter S. Wingo

## 1956

William P. Atchison  
Ernest S. Auerbach  
Earlene  
Baumunk-Cancilla+  
Eugene G. Branchi  
Frances K. Burka+  
Sally A. Cacheris+  
Elizabeth H. Clifton  
Loretta T. Dahlstedt  
Quin S. Elson, Esq.  
Burton S. Epstein, M.D.+  
Frances B. Feldman+  
Charles S. Forbes, Jr.  
Andrew J. Gabor+  
Leon G. Goldstein  
Robert S. Goodman  
Arlene A. Gray  
Bernard A. Heckman  
David H. Hertig  
Emanuel Horowitz+  
Ward B. Hurlburt, M.D.+  
Jesse A. Kaiser+  
Ann T. Kashiwa  
Ethel V. King  
Helen S. Kocher+  
Doris Margolis  
Harry D. McCament, Jr.+  
Alan D. Mighell+  
Valery T. Miller+  
Nora B. Morton  
Stanley C. Nagle, Jr.+  
Patricia A. O'Neil  
Gene F. Ostrom+  
Thomas J. Pierpoint  
S. Richard Pincus  
Frances H. Playfoot  
S. Jesse Reuben, Esq.+  
Robert W. Rhodes  
Irwin Richman  
Derek V. Roemer  
William D. Russell  
Robert B. Sampson+  
Evelyn R. Schlosser  
Irene M. Schuler Smith+  
Donald H. Sebade+  
Paul C. Sherertz

Walter Shropshire, Jr.  
Margaret M. Sleshinger  
Bob L. Sturm  
Robert G. Sutton+  
Paul J. Truntich+  
Helen A. Vigness  
Harold S. Watkins  
Linda M. Whitfield  
Rosa D. Wiener  
Lenore G. Zinn+

## 1957

Arden Baker, Esq.+  
Sigrid W. Benson+  
Toby F. Berman  
Antonio CasasGonzalez  
Roy S. Clarke, Jr.+  
A. George Cook, III+  
Carl E. Day  
Stanley E. Degler+  
Winifred Todd Farah \*  
Charles S. Forbes, Jr.  
Semi Feuer, Esq.  
Janet W. Hartley+  
Charlotte K. Henschel  
William F. Hogan, M.D.  
Nancy R. Hughes  
Barbara B. Jackson  
Kathrine C. Jaouni  
Stephen R. Judge+  
Alan Kay  
Loretta L. Kiron+  
Ronald Kuntzman  
Eugene I. Lambert+  
Barbara L. Levitan+  
Albert L. Lloyd, Jr.+  
Kathryn T. Louka+  
James V. Luscaavage  
Eric S. Mendelsohn+  
Alan D. Mighell+  
Jay H. Miller, M.D.+  
Marriner K. Norr  
James H. O'Mara+  
Bernard I. Passeltiner+  
Elliot Perlin+  
Susan L. Poremba  
Rhona P. Presnky  
Gene E. Rainey  
Irwin Richman  
W. Stuart Riggsby  
Howard R. Roberts  
Robert B. Sampson+  
Clavelina Sarmiento+  
Wesley Schlotzhauer, Jr.+  
Donald H. Sebade+  
Conrad G. Tuohy  
Carol D. Vardeman+  
Orville W. Varley  
Andrew A. Wallman, M.D.+  
Herbert Weissbach  
Dorothy H. Wilken  
E. Katharine Williams

**1958**

Donald D. Boyer  
 Donald O. Castell, M.D.  
 Rebecca B. Coakley  
 Constance C. Conrad+  
 Loretta T. Dahlstedt  
 Robert J. Dahlstedt  
 Elizabeth G. Downs  
 M. Patricia Edelin+  
 David A. Ellis  
 Andrew J. Gabor+  
 Agnes B. Gates+  
 Judy F. Geller+  
 Scott L. Graham  
 Richard M. Guttmacher  
 Joy G. Haralick  
 Roger W. Hart  
 Bernard A. Heckman, M.D.  
 David H. Hertig  
 Vincent W. Hollis, Jr.  
 Jean P. Jacocks  
 Richard J. Jamborsky  
 Ronald G. Latimer, M.D.  
 Joyce H. Lofmark  
 James V. Lusavage  
 Doris Margolis  
 Olivia B. Maynard  
 Malcolm Meister, D.D.S.+  
 Allen M. Mondzac, M.D.  
 Carol O. Napper  
 Patricia A. Neighbarger  
 Marilyn M. Overton+  
 Edith L. Pentecost  
 S. Richard Pincus  
 Fernando Ramirez Tio, M.D.  
 S. Jesse Reuben, Ess.+  
 W. Stuart Riggsby  
 Maxine L. Rockoff  
 Derek V. Roemer  
 William D. Russell  
 Robert M. Sandler, Esq.  
 Marcia L. Semones  
 Marlene C. Semple  
 Walter Shropshire, Jr.  
 William C. Silberman, M.D.+  
 Irene M. Smith+  
 Bob L. Sturm  
 Paul J. Truntich+  
 Beverly F. Varley  
 Ruth H. Wadlington  
 Walter S. Wingo  
 Lenore G. Zinn+

**1959**

Philip E. Battery+  
 Robert D. Benson  
 William F. Blocher, Jr.  
 Malcolm C. Clark+  
 Elizabeth B. Donaldson  
 M. Patricia Edelin+  
 Grace C. Ferrill+  
 Charles N. Finney, Esq.+  
 Edwin N. Gross, Esq.

Robert Hargreaves  
 Nancy J. Henderson  
 Harold D. Hoiberg  
 Joseph M. Iseman  
 Denis A. Jacques, Esq.  
 Vivia V. Lucius  
 Emiddio N. Massa  
 Haynes A. McDaniel, Jr.  
 Gustavo A. Mellander  
 Eric S. Mendelsohn+  
 Valery T. Miller, M.D.+  
 Stephen C. Mohler  
 Maureen R. Mylander  
 John A. Prokop, Jr., Esq.  
 Helen B. Pruden  
 Wesley Schlotzhauer, Jr.+  
 Richard A. Silas+  
 Robert G. Stalnaker+  
 Vito Tanzi  
 Jack K. Tarr+  
 Russell H. Tomar, M.D.  
 Leonard Wartofsky, M.D.  
 Harold E. Wefald  
 Willis B. Wheeler+  
 Herbert D. Whetstone  
 Robert M. Wilson, M.D.+

**1960**

Nicholas R. Anzelmi  
 John R. Bailer  
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 Lori M. Moussapour

**1988**

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 Dorsett W. Jordan+  
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 Punyadech  
 Photangtham, M.D.  
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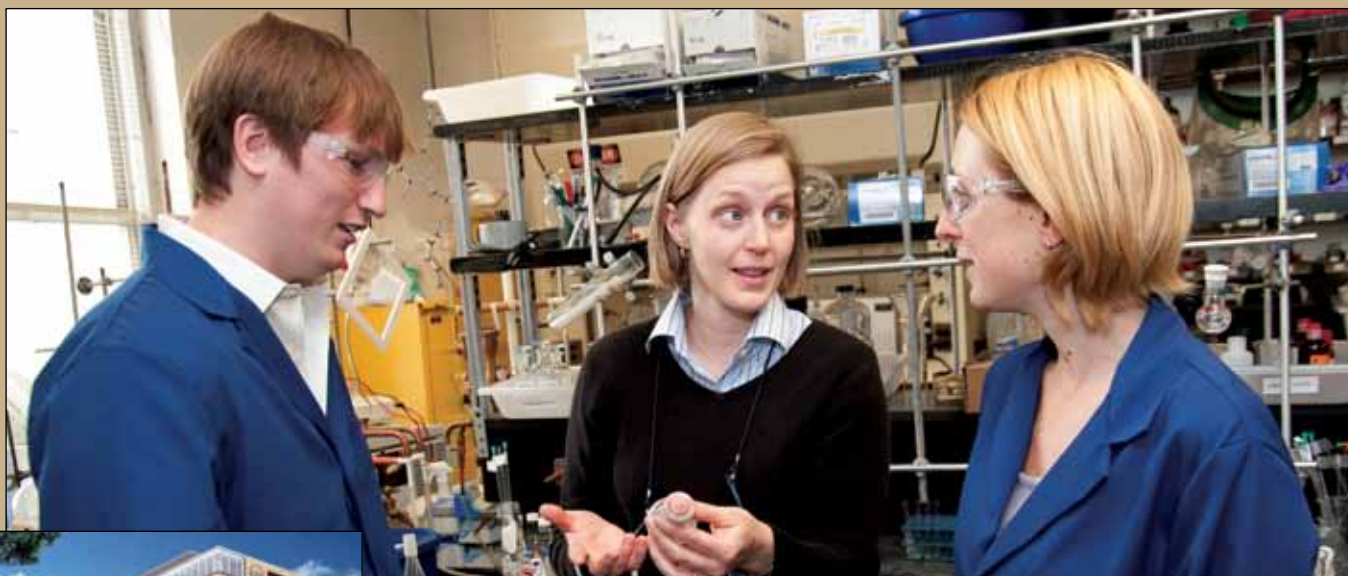
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