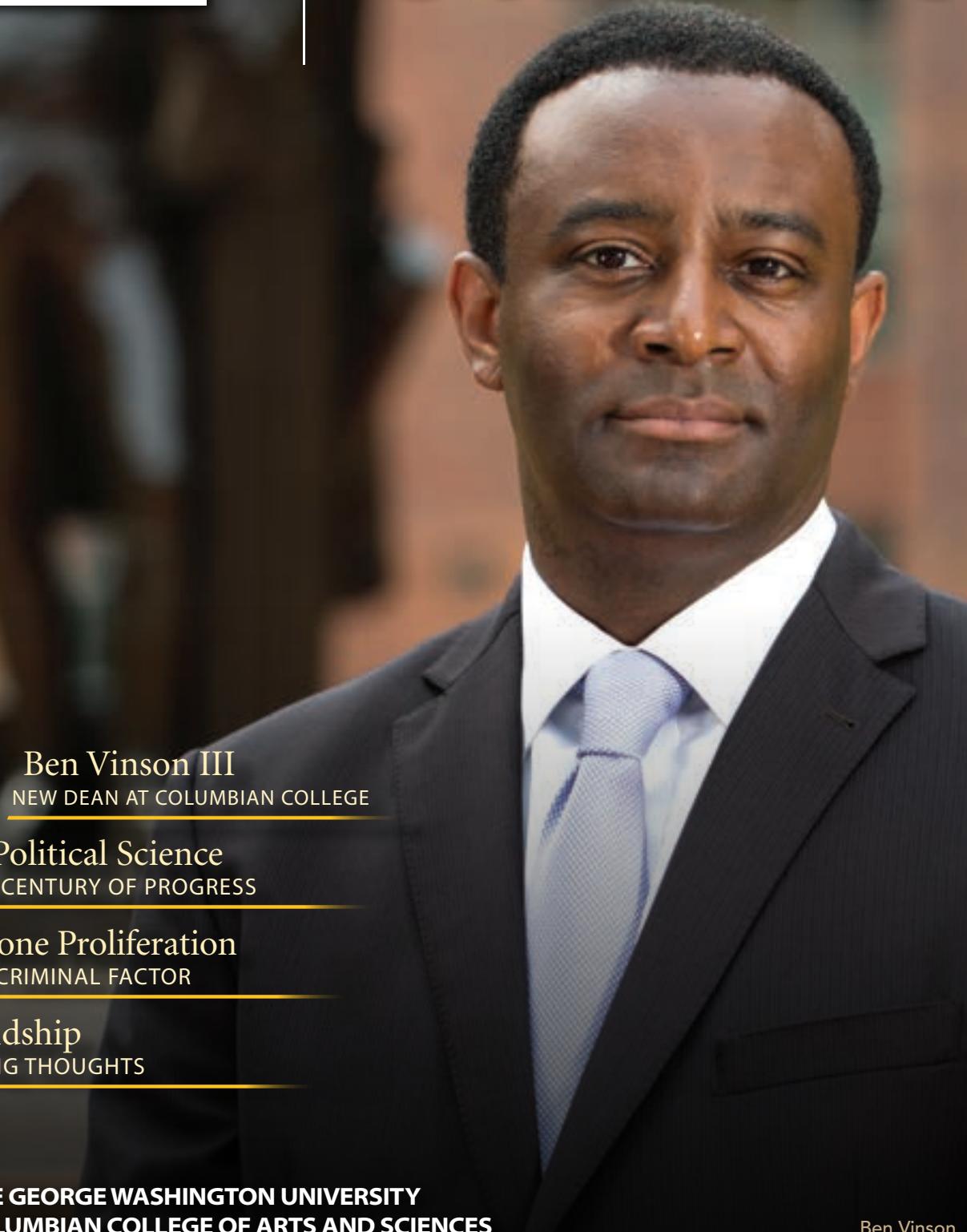


GW

Arts & Sciences

A professional portrait of Ben Vinson III, a Black man with short hair, wearing a dark suit, white shirt, and blue patterned tie. He is looking directly at the camera with a neutral expression. The background is blurred, showing what appears to be a bronze statue and a building.

Ben Vinson III
NEW DEAN AT COLUMBIAN COLLEGE

Political Science
A CENTURY OF PROGRESS

Drone Proliferation
THE CRIMINAL FACTOR

Friendship
DEFINING THOUGHTS

THE GEORGE WASHINGTON UNIVERSITY
COLUMBIAN COLLEGE OF ARTS AND SCIENCES

Ben Vinson

FALL/WINTER 2013

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Dean's Message



It is a pleasure to greet you as the new dean of the Columbian College of Arts and Sciences. Since my arrival in August, I've met many of you at student and parent orientations and at the great events surrounding Alumni Weekend. In the months to come, I look forward to engaging our entire community, building upon the college's nearly 200-year-old legacy of academic excellence and exceptional achievement.

This is an exciting time at GW. As the university enters its third century, we are poised to become a preeminent urban research institution—thanks in part to a strategic vision that emphasizes innovation through cross-disciplinary collaboration, globalization of scholarship, expansion of programs focused on governance and policy, and good citizenship.

Columbian College anchors the very center of GW's commitment to a broad liberal arts education, one that advances discovery, inquiry, and creativity. This issue of *GW Arts & Sciences* spotlights some of the many ways our faculty and students are engaged in learning and research within and across the arts and humanities, the social sciences, and the natural and mathematical sciences.

In the pages that follow, you will read about the proliferation of drones and how their use is spilling over into the criminal world. You will learn how our new knowledge in genome sequencing of fish may impact biological research around the globe, and how our discovery of innovative therapeutics for combating drug-resistance is opening the door

to treatments for tuberculosis. And I trust you will be inspired by our stories of love, friendship, and people who make a difference.

These are stories that elevate us as human beings in a world where physical and cultural boundaries are increasingly irrelevant.

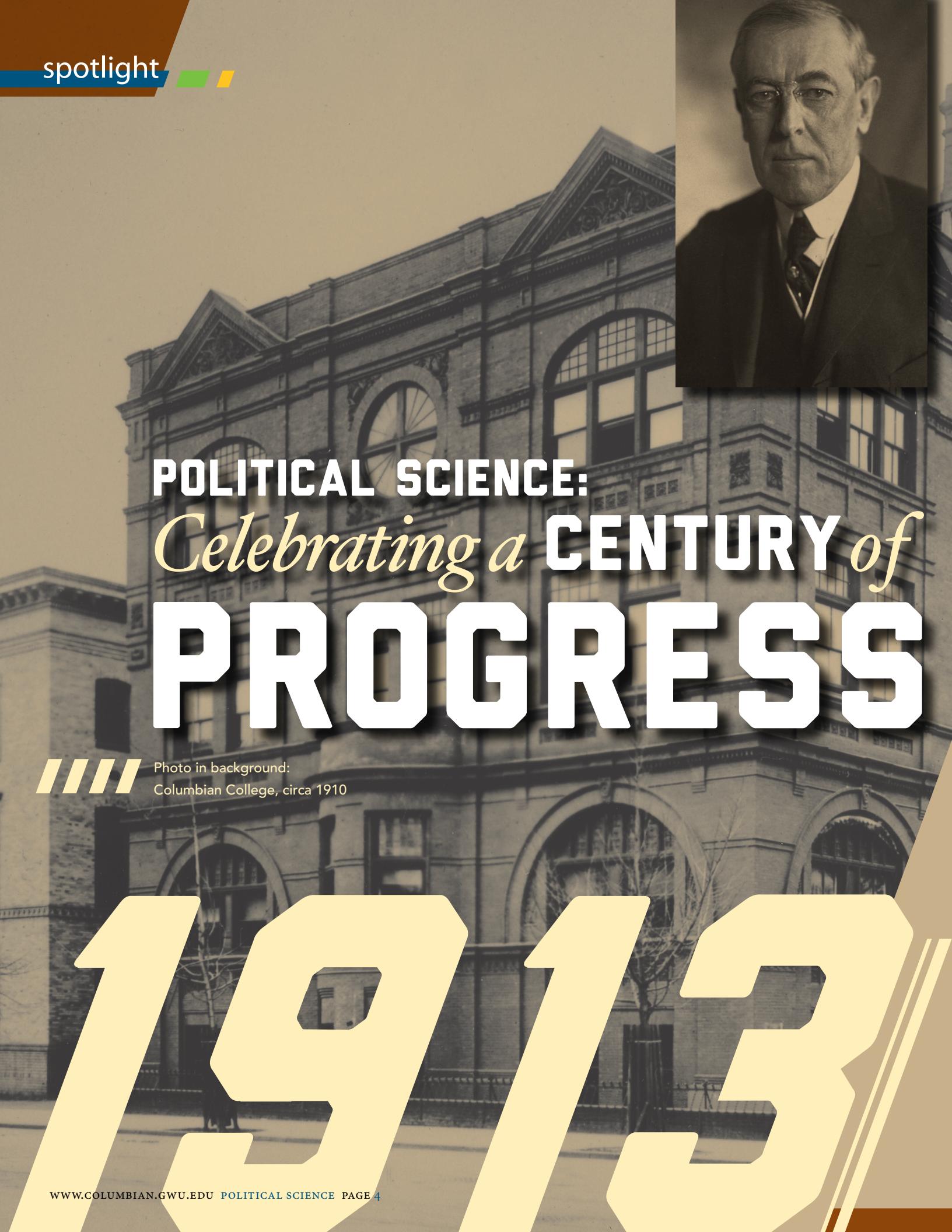
This issue of the magazine also celebrates the 20th anniversary of our National Council of Arts and Sciences, a dedicated group of alumni, parents, and friends of Columbian College. Our vision is built upon the commitment of these volunteers and the thousands of others whose service and philanthropy bring energy and strength to our college. An impressive number of donors are listed in this year's Honor Roll. I am grateful to all who have rallied behind our work through generous gifts.

As we move Columbian College forward, I encourage you to drop me a line, stop by my office, or join one of our many outreach events. We are a vast and vibrant community connected by a shared purpose: to build a better future through knowledge and understanding. Your continued engagement can and will make a difference.

Sincerely,

A handwritten signature in black ink, appearing to read "Ben Vinson III".

Ben Vinson III
Dean, Columbian College of Arts and Sciences
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A large, ornate, multi-story building with classical architectural details, arched windows, and decorative moldings, serving as the background for the entire page.

POLITICAL SCIENCE:
Celebrating a **CENTURY of**
PROGRESS



Photo in background:
Columbian College, circa 1910

1913



CELEBRATING 100 YEARS

Department of Political Science
THE GEORGE WASHINGTON UNIVERSITY
WASHINGTON, D.C.

Woodrow Wilson was in his first year as president of the United States, suffragettes were demanding equal voting rights for women, and garment workers in New York and Boston took to the streets to protest low wages and long hours. The year was 1913, and at GW a new Political Science Department was in its infancy.

At the time, the department consisted of just three faculty members who taught 14 courses and trained students for “consular and diplomatic positions and for the public service of the United States.” From that humble beginning, the political science program at GW has come to occupy a prominent national position, consistently ranked among the top programs in the country. Over the course of a century, it has grown to serve more than 700 undergraduate students, 100 graduate students, and 49 full-time faculty members—one of the largest of Columbian College’s 42 departments and programs. Among its alumni are college presidents, members of Congress—including current Senator and former Virginia Governor **Mark Warner** (BA ’77)—federal and state judges, and notable professionals in law, business, academe, and research.

continued, next page

Political Science, continued

"We are proud of the fact that our department has touched the lives of thousands of alumni over the years and of the diverse contributions they have made to their communities," said **Paul Wahlbeck**, chair of the department since 2005. "It's exciting to think about how we provided the foundation for that service."

Looking Back

Political science at GW traces its origins to the Department of Jurisprudence and Diplomacy, which launched in 1898 and offered graduate and professional studies in close affiliation with the law school. In 1907, with the addition of undergraduate course offerings, the College of Political Sciences was born. Following a financial crisis in 1913, Columbian College incorporated the program as a department.

Two periods of exceptional growth followed. The first occurred after World War II when the department doubled from six faculty members in 1944 to 12 in 1949. The second growth spurt came in the 1960s during a university-wide expansion that resulted in 24 full-time political science faculty members.

Christopher Deering, a professor of political science and former department chair, arrived at GW in 1978 and remembers when the departmental faculty was half its current size.

"Over the years, political science expanded as the university's student body grew larger, which presented both a challenge and an opportunity," said Deering. "It was a challenge to fashion a program that was appropriate to the goals and aspirations of undergraduates, professionally oriented graduate students, and doctoral students interested in both the policy world and in academic research. It was an opportunity because an expanding faculty meant new hires, and new hires are always a means to achievement."

Forward progress continued from there. "I think most faculty will agree that hiring **Lee Sigelman** to be department chair in the early 1990s was a key point in the department's development," noted Deering.

Sigelman came to GW with the mandate to develop a premiere, world-class political science program in the nation's capital. With a focus on scholarly productivity and a push to attract the best in the field, he aggressively recruited faculty members with an interest in cutting-edge research—scholarship that would be published in top academic journals.

"He was a major figure in encouraging faculty to seek out publication in the very best outlets the field has to offer," said Wahlbeck. "The department's reputation grew with the success of the faculty he brought, and that continues today."



"We are proud of the fact that our department has touched the lives of thousands of alumni."

—Paul Wahlbeck

Sigelman was also a highly respected scholar and prolific author celebrated for his exacting standards and broad experience. During his tenure, he was the editor of the *American Political Science Review*, the discipline's flagship journal. This high-profile position further broadened the department's impact and exposure. After Sigelman's death from cancer in 2009, students and faculty memorialized him through their participation in the American Cancer Society's Relay for Life.

"Lee brought a sense of direction, excellence, and collegiality to the department," said Deering. "That was essential to our 'great leap forward' from being a very good department in the '70s and '80s to a top 20 department today."

A TIMELINE OF POLITICAL SCIENCE AT GW

1905

The first PhD in political science is granted by GW; later that year, the Department of Politics and Diplomacy is formed.

1907

The College of Political Sciences replaces the Department of Politics and Diplomacy.

1913

The College of Political Sciences is incorporated into Columbian College.

1914

The renamed Department of Political Science employs three faculty members and offers 14 courses.

1928

The faculty, which now totals five, becomes part of the new School of Government.

1944-50

The department doubles from six faculty members to 12 following World War II.

Continued Excellence

With nationally recognized emphases in American politics, comparative politics, and international relations, today's faculty and students are sharply focused on issues of global importance. The department's location near the centers of power offers clear advantages, most notably access to the many resources of the nation's capital.

"We go well beyond the basics of political science by offering classes on all sorts of topics that are more specialized and of great interest to our students," Wahlbeck said. Those courses include the Internet and Politics, Supreme Court Decision Making, and Ethnic Politics in Eastern and Central Europe.

Faculty continue to publish regularly in the discipline's top journals and presses, and prestigious research grants are awarded by such notable organizations as the National Science Foundation, the Robert Wood Johnson Foundation, the U.S. Institute of Peace, the Russell Sage Foundation, and the Woodrow Wilson International Center for Scholars.

Students like **Matthew Gerstenberg**, now in his junior year, have benefited from faculty connections to government agencies, nonprofit institutions, and other organizations.

"I give a lot of credit to the Political Science Department for many of the interviews I have had over the year with fantastic employers like People for the American Way and the Center for American Progress," said Gerstenberg. "What has stood out the most is the wide range of classes allowing me to explore many different subfields of political science, as well as the passion for the subject by the professors."

He is also impressed with the faculty's popularity among media outlets, many of which rely on a scholar's expertise to provide comment on stories of interest. "One minute your professor may be teaching a class about executive politics, immediately followed by a nightly visit on C-SPAN, the country's premier television show for politics," said Gerstenberg.

Among the department's noted faculty are **Martha Finnemore**, a member of the exclusive American Academy of Arts and Sciences; **Sarah Binder**, a top congressional scholar; and **John Sides**, a founder of *The Monkey Cage*, a popular political science blog. In 2001, a survey conducted by a team of international

relations scholars at the College of William and Mary ranked the department 11th for the quality of incoming faculty. A decade later, the survey listed two of the faculty—Finnemore and **Michael Barnett**—as scholars producing some of the best work in the field. Also in 2011, a survey by the Teaching, Research, and International Policy project ranked the department's doctoral program in international affairs as 15th in the nation.

Doctoral student **Alyx Mark** values the many opportunities the department offers for growth and collaboration, critical to a competitive academic job market. She has worked on several projects that resulted in book chapters, and received a small grant from the department to help fund her dissertation study on the impact of individuals' interactions with civil legal assistance in the United States, as well as congressional attention to legal services over time.

As it marks its centennial, political science at GW is celebrating the achievements of students like Mark and the many others who came through its programs.

"Our future will be shaped by our current undergraduate and graduate students," said Wahlbeck. "They are engaged in classes—reading scholarship, writing papers, and discussing the issue of the day. They are engaged in research, winning fellowships and grants to support their projects. And they are engaged in Washington, serving as interns for elected officials, government agencies, and advocacy groups."

"Our students are preparing their own career path," he added, "and I look forward to hearing their success stories in the years ahead."

1960s

A period of significant growth is seen, the result of scholarly productivity and a push to attract top faculty.

1990

Lee Sigelman is named chair and begins building a research-conducive environment.

2001

A survey by a team of international relations scholars ranks the GW Department of Political Science 11th in the nation based on quality of incoming faculty.

2011

The National Research Council ranks the doctoral program 24th in the nation.

2011

A survey by the Teaching, Research, and International Policy project ranks the PhD program in international affairs 15th.

2013

U.S. News & World Report ranks the department's American Politics subfield 16th in the nation. The department has 49 full-time faculty members.

The Arts Embraced

Students perform in the musical "Hair".



GW's location amid the vibrant cultural and artistic landscape of Washington, D.C., gives the university an unparalleled opportunity to be one of the most stimulating places to learn, listen, watch, and engage in creative scholarship. With a goal to become *the* venue for cultural education, research, and performance, Columbian College spearheaded the launch this year of a comprehensive Arts Initiative—a university-wide, ongoing effort to showcase GW's artistic academic programs, top-tier events and other ventures, the majority of which are housed within the college.

The initiative encompasses the launch of the Incubator Studio Fellowship and the Visiting Artists and Scholars Residency programs (see sidebar), a renewed partnership with the Phillips Collection and its popular "Conversations with Artists" series, an expanded Summer Arts programs for students and the community, and ongoing collaboration with such venerable D.C. institutions as the Folger Shakespeare Library and the Shakespeare Theatre. The Arts Initiative also complements the multi-university partnership with Arena Stage to produce performance pieces exploring the American Civil War, and the creation of the George Washington Museum, which will house centuries-old textiles and Albert H. Small's Washingtoniana Collection.

Renovations to Lisner Auditorium, GW's premier performing arts venue, were also completed this year. Lisner now has state-of-the-art sound and lighting equipment and upgraded stage flooring, carpeting, aisle lighting and air-conditioning. New artwork from GW's permanent collection graces its lobby, and leadership is focused on developing more comprehensive and diverse performance offerings.

Capping the launch of the Arts Initiative was the announcement of a \$2.5 million bequest intention from alumnus **Marc Albert**, BA '70, JD '73, to support theater and the arts. The planned gift encompasses student scholarships and performance support, as well as a collection of artwork. (*See story, page 37.*)

Arts Initiative Steering Committee member **Dean Kessmann**, an associate professor of photography, said that while the committee has many long-term goals—including the development of more performance and gallery space—its short-term priorities are to increase the visibility of the arts on campus and in the community, connect the arts and humanities disciplines across the university, and support creative work by faculty and students.



Creative Scholarship

“We really want to build capacity,” said Kessman.

“We have strong artists here at GW, and it’s good for people to know that,” added **Douglas Boyce**, chair of the Department of Music and a member of the Arts Initiative committee. “Things like the Incubator Studio Fellowships are our attempt to build from the grassroots level.”

Community outreach is also integral to the success of the initiative. For example, plans are underway for a children’s museum near the Fort Totten Metro station on land owned by the Morris and Gwendolyn Cafritz Foundation. Committee member **Martha Morris**, an associate professor of museum studies, has assisted with community assessments and other pre-planning activities for the museum, working with members of the community to determine what exhibits, themes and activities might be presented.

“This type of collaboration is in the early stages so far,” said Morris, “but it’s a main pillar in our vision of the arts at GW.

INCUBATOR STUDIO FELLOWSHIP

The Incubator Studio Fellowship encourages faculty to work individually, together, and/or with local and visiting artists, performers, scholars, and curators. This year’s fellows are **Chair of the Department of Theatre and Dance Dana Tai Soon Burgess**, **Assistant Professor of Music Eugene Montague**, and **Associate Professor of Art Siobhan Rigg**, all artists who highlight the range of creativity and scholarship at GW. Their work explores the connection of space to movement (Burgess), the relationship of the body and mind in performance (Montague), and the potential of art as a mechanism for political and social action (Rigg).

ARTISTS IN RESIDENCE

Artists in Residence are invited to campus to work with the incubator studio fellows, students, and members of the extended Washington, D.C., arts community to produce new work and/or scholarship. The 2013-14 resident artists are **Beverly Ross**, who draws from life in colored pencil on paper and explores science through still life drawing; **Sarah O’Halloran**, a composer focused on relationships between music, drama, storytelling, and performance arts through music composition and scholarly work; and **Stephen Wade**, a Grammy-nominated folk artist who has found great success in theatrical performance art.

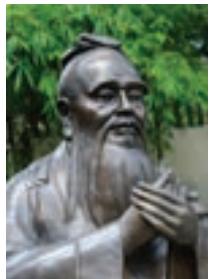


Students perform at GW’s Excellence in Student Life awards event.



CONFUCIUS INSTITUTE

Promotes Chinese Scholarship



The new GW Confucius Institute, launched this year by Columbian College, was created to encourage the study of Chinese language and culture, support Chinese teaching through instructional training and certification, and enable prosperous growth in China studies research. Named for the famed Chinese philosopher (551-479 BC), it is one of more than 350 institutes worldwide and the first to be established in Washington, D.C.

The college's partner on the project is Nanjing University, one of the oldest and most prestigious institutions of higher learning in China. Nanjing is providing a team of faculty members and graduate students, including an international cohort responsible for teaching courses and administering the institute's operations.

"This will bring together two cultures to create and exchange knowledge in language and education," President **Steven Knapp** said at the institute's spring ribbon-cutting ceremony. "We can also hope that, going beyond that focus, we'll have an opportunity to develop a relationship with Nanjing University.

"We look forward to seeing that relationship blossom in a number of fields, including science, technology, and mathematics, as well as the study of our two cultures and international histories," he added.

Knapp has been named to serve a two-year term on the Council of the Confucius Institute Headquarters, the governing body of the Confucius Institutes worldwide. He joins a 10-member council, which represents the organizations that host each of those institutes.

The Confucius Institute headquarters—overseen by the Office of Chinese Language Council International and affiliated with the Chinese Ministry of Education—provided GW with startup funding for the institute. It is also providing 3,000 volumes of Chinese language books and teaching and audio-visual materials, as well as access to online courses. The resources offer enormous opportunities for research and collaboration by and with the broader GW and Washington, D.C., communities.



Left to right, Xu Lin, the chief executive of Confucius Institute Headquarters, GW President Steven Knapp, and Hong Yinxing, the chancellor of Nanjing University, participate in the Confucius Institute ribbon-cutting ceremony.



News Briefs



NEW NAME, NEW FOCUS FOR INTERIOR ARCHITECTURE AND DESIGN

What's in a name? For the Interior Architecture and Design Program, which added "architecture" to its moniker last fall, a new name reflects both a change in programming and in culture. "We are pushing our students to think more conceptually

MFA
student
Audrey
Barriault



and architecturally—to design more complex spaces, build more models, and design in section," said Director **Stephanie Travis**. Both the undergraduate and graduate programs have adopted a studio-based core curriculum and increased the number of required credits from 45 to 60. The revamped curriculum includes courses on sustainability, freehand sketching, computer graphics, and architectural drafting to balance both the artistic and technical sides of the profession. And, thanks to recent renovations aimed at enhancing the studio experience, students have more dynamic space in which to work on their designs, which range from commercial buildings to institutional projects.

TRAILBLAZING IN LGBTHEALTH

This summer, Columbian College launched a graduate certificate program in LGBT health to train current and future health care leaders and policy advocates on issues relating to the well-being of the lesbian, gay, bisexual, and transgender community. Program courses run the range from psychological and medical issues to legal and policy-based considerations. The hybrid curriculum of on-campus and online offerings includes contemporary topics such as transgender care, marriage equality, and advocacy for underserved populations. The program was created to meet the growing need for health care and policy professionals able to address challenges faced by the LGBT population.

HATS OFF!

In May, family and friends joined Columbian College students and faculty at the Charles E. Smith Center for special pre-Commencement ceremonies recognizing 1,125 undergraduates and 480 graduate students for their achievement in the arts and sciences. The next day, graduates made their way to the National Mall to listen to alumna and award-winning actress **Kerry Washington**,



who urged them to push beyond their comfort zones and live "the story you were meant to tell." **Alexander Zafran**, BA '13, a classics major, delivered the student address.

NEW FACULTY WELCOMED

Forty-three full-time faculty members joined Columbian College this year, a figure that includes 12 new positions spread equally across the sciences, the social sciences, and the humanities. Among the new hires are two full



professors with tenure:
Lisa Bowleg (psychology), whose research focuses on

stress and resilience among African American, lesbian, and gay communities; and **Ayana Thompson** (English), a specialist in Renaissance drama, with a focus on race and performance. The college now boasts 498 full-time faculty, compared to 471 last year.

SOLAR INSTITUTE NAMES DIRECTOR

Amit Ronen, a recognized leader in the clean energy field, is the new director of the GW Solar Institute, which is housed within Columbian College. As a former deputy chief of staff for U.S. Senator Maria

Cantwell, (D-Wash.), Ronen was a top adviser on energy and natural resource issues and worked to accelerate the nation's transition to a more diversified and better distributed energy system. He brings to the position broad knowledge of government and extensive experience in energy and environmental policy strategy. Ronen's appointment was announced at the institute's annual Solar Symposium in April.

HIGH PERFORMANCE COMPUTING LAUNCHED

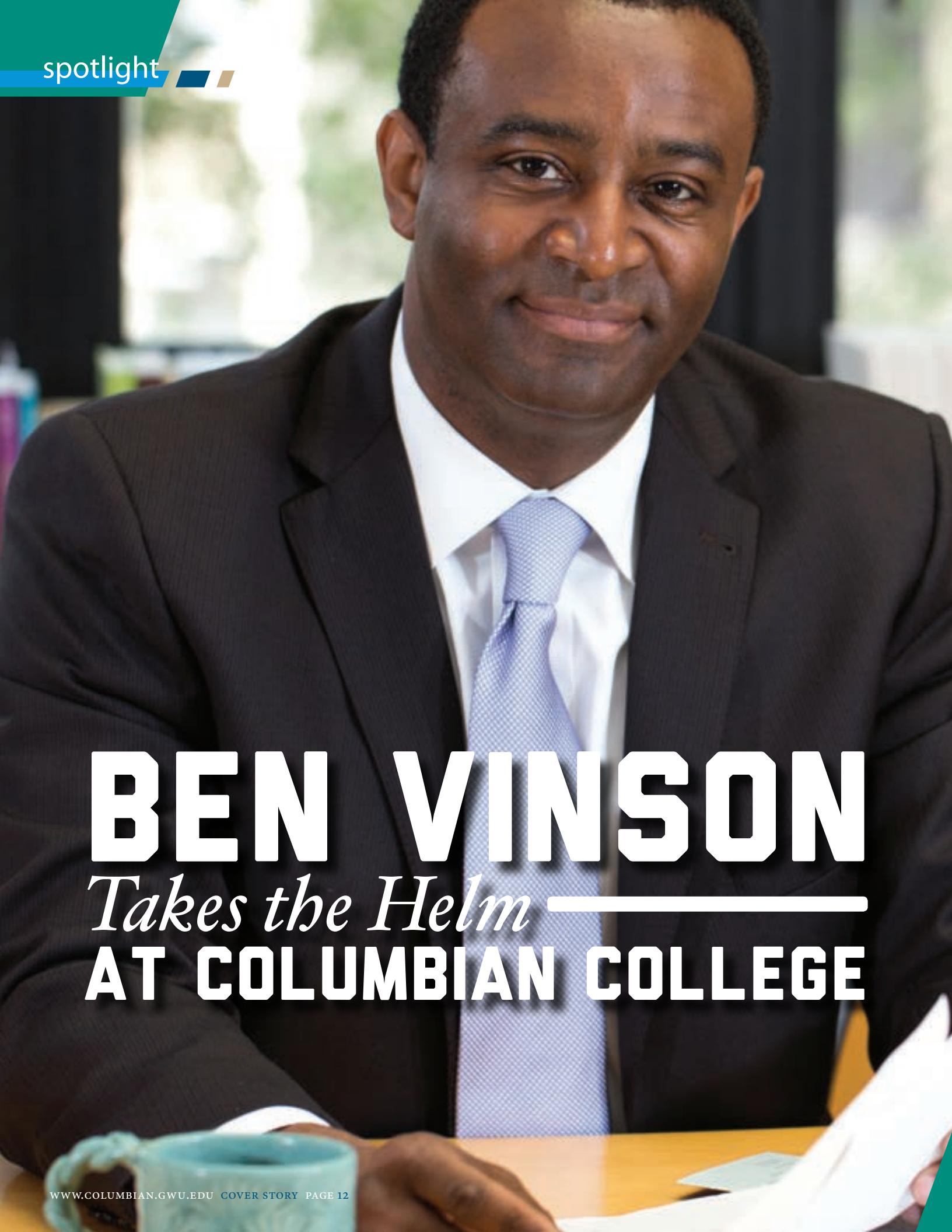
In June, Columbian College spearheaded the launch of GW's Colonial One cluster, which establishes a new model for High Performance Computing (HPC) by centralizing the management and service delivery for HPC resources. Based at the



Virginia Science and Technology Campus, Colonial One is a collaboration between the college, the Division of IT, the School of Medicine, and nearly 100 faculty researchers. The \$2 million investment in the university's research computing infrastructure provides a central resource to support a spectrum of projects. It also encourages inter-disciplinary partnerships across GW's three campuses.



Amit Ronen



BEN VINSON

Takes the Helm —

AT COLUMBIAN COLLEGE



Ben Vinson III is thrilled to be in Washington, leading GW's largest school, shaping strategy across the arts and sciences, and joining the dynamism of a university in the heart of the nation's capital. He's energized by the idea of working at the nexus of academia and policy, watching knowledge transfer from the school into real-life practice.

continued, next page

“When one is trained in the sciences, social sciences, and the arts, this builds critical perspective and the capacity to think laterally. That’s the type of agility we need to cultivate in our students as we move forward in the 21st century.”

—Ben Vinson

Vinson, continued

But there's another, more lighthearted, reason behind Vinson's excitement: Despite his years at Johns Hopkins University in Baltimore—a city pulsating with Raven and Oriole mania—the new dean is a diehard D.C. sports fan.

“Living in Baltimore and not rooting for the home teams has been tough,” chuckled Vinson, whose sports loyalties were honed when he was in his teens and his family moved to the metro area after living abroad. “I blame it on my mother. She made me a Redskins fan . . . being back in D.C. feels like coming home.”

A Global Perspective

Vinson, who joined Columbian College as dean in August, is a scholar with a truly global perspective and a wide arc of interests. Noted for his scholarship on black populations in colonial Mexico, he is also a saxophone player, the husband of a scientist, the father of three

young children, and a lover of antiquity. His mother was an elementary school teacher who impressed upon him the power of knowledge. And his father, a career military officer, introduced a young Vinson to the world beyond the United States.

“Growing up abroad does something to you, it stretches your imagination,” said Vinson, whose father was stationed at Casarma Elderly, a military base in Vicenza, Italy. Vinson lived with his parents in the small town of Sovizzo where, as the only American family in the community, he grew up bilingual. Those early years spent living and traveling through Europe cultivated his love of history.

“History has always been a favorite subject of mine, and being able to visit ruins that were not far from where we lived was wonderful,” said Vinson. “Looking back, it seems amazing that, as a child, I was actually playing on World War II battlefields and in a castle owned by a friend of the family.”

As an undergraduate at Dartmouth College, he focused on history, classical studies, and Spanish. His long-term goal was a career in law. But that changed when his Spanish professor, a Peruvian, hired Vinson as a research assistant and encouraged him to travel to the Venezuelan coast for a project on Afro-Latin American culture.

“It was the first I had ever heard of the term ‘Afro-Latin American,’ and I quickly got hooked on the subject,” said Vinson. “I was able to go on two three-month research trips to Venezuela, working on a documentary film about the country’s religious festivals. That experience and the mentorship I received from my professor stoked my passion for the history of African settlement in the region.”

Vinson’s first book focused on the role of black soldiers in defending what was then New Spain—the colony that is now Mexico. He’s currently working on a book about the caste system in that colony during the 17th and 18th centuries.

Although accepted to law school after graduation, Vinson changed course and opted for graduate school, eventually pursuing a doctorate in Latin American History at Columbia University. He first joined the faculty at Barnard College, then shifted to Penn State before moving to Johns Hopkins University in 2006. While at Hopkins, he was named the Herbert Baxter Adams Professor of Latin American History and director of the university’s Center for Africana

Vinson with Columbia College undergraduate Dean Dan Ullman





Greeting students
at a Majors Fair

Studies. In 2011, he became vice dean for centers, interdepartmental and graduate programs at Johns Hopkins' Zanvyl Krieger School of Arts and Sciences.

Listening, Learning, Leading

As the new leader of the Columbian College of Arts and Sciences, Vinson is busy engaging faculty, alumni, parents, and students as he becomes familiar with the college and gauges its future course.

"We must continue to be cognizant of how Columbian College and GW fit in the universe of institutions and be mindful of ways to elevate our presence as a leader among peers," the new dean noted.

Vinson believes the college is well-positioned to leverage its academic expertise and build upon its research excellence, its recruitment and retention of outstanding faculty, and its solid financial footing through growth in philanthropic support and research funding. Mindful of how a strong faculty mentor helped to guide his career choice, Vinson also seeks to strengthen the college's collaborative relationships between students and professors.

"When you are engaged in producing knowledge, what better strategy than to share that with your students? It adds richness to the student experience and gives faculty members immediate feedback that shines new light on their own research," he explained.

Vinson noted that an in-depth global perspective is a critical component of a rich liberal arts education. He learned important lessons by living and traveling in other countries, experiences that would serve Columbian College students well. "We are in a place that is larger than us, which means it is important to be able to communicate across boundaries," he said.

And he emphasized the value of the liberal arts more generally, standing with the founding fathers' belief in the holistic training of the individual.

"When one is trained in the sciences, social sciences, and the arts, this builds critical perspective and the capacity to think laterally. That's the type of agility we need to cultivate in our students as we move forward in the 21st century."

Vinson pointed out that many of today's innovators are generalists rather than specialists in particular fields. He said a liberal arts approach to education keeps graduates competitive. At the same time, he added, employers want to hire people who can communicate effectively, especially for careers in science and technology.

"Innovation often begins when thinking about humanity and what essence of technology can be used to improve our human condition," added Vinson. He cited Apple, noting that it "brought intelligent sophistication to the personal level."

Vinson also embraces online learning that unfolds in smart ways, but cautioned that Internet-based education needs to be considered carefully before implementation.

"As an institution, we're going to have to find our place in online education," Vinson explained. "A cautiously aggressive approach is perhaps the best way to think about this because if it hasn't been thought through deliberately, it's going to do more harm than good."

Does Vinson plan to reclaim his musical chops on campus, perhaps joining President Steven Knapp, a drummer, onstage?

"I still play sax, but I'm not quite at Steve Knapp's level," he said with a smile.

CONFLICTED CITY: East Jerusalem through a **GEOGRAPHIC LENS**



IN East Jerusalem, Palestinian and Israeli residents live close to one another, but their interactions are often limited. Luther Rice Undergraduate Research Fellow **Aurora Echavarria** studied the unique sensitivities of the city by analyzing how past conflicts between the two peoples have affected Jerusalem's physical environment and exacerbated tension. In mapping out areas of interaction for her fellowship project, she came to better understand why Jerusalem, in essence, is two very different cities operating as one.

"Jerusalem's infrastructure—road systems, transportation network, neighborhoods—is for the most part shaped to reduce interaction between the Israeli and Palestinian residents of the city," said Echavarria, a senior majoring in geography and international affairs. "For example, Palestinians have a different bus system that exclusively goes to Palestinian neighborhoods."

Echavarria became interested in the impact of urban planning in East Jerusalem when, as a first-year student, she took a University Writing course focused on the Israeli-Palestinian conflict. Research for that course prompted her to consider how the built environment can reflect a conflict and be used as a tool for additional conflict. The summer prior to her junior year, she lived what she learned as an intern at the International Peace and Cooperation Center in East Jerusalem.

"From my time in East Jerusalem, I gained first-hand understanding about one of the most studied conflicts," said Echavarria. "I became more aware of how infrastructure is used and is often an extension of the city's political history."

Associate Professor of Geography **Lisa Benton-Short**, who served as Echavarria's faculty mentor, said the polarization

of Palestinians and Israelis in East Jerusalem is of such long standing that it has become institutionalized in urban planning. Residents have learned to navigate areas that are safe for them and to avoid places that are not.

"It is now expected that security measures such as fences, divides, and walls are planned into every new building or development," said Benton-Short. "I don't see planners moving beyond that security mentality in how they plan for new developments or how they redevelop older areas anytime soon."

Echavarria's academic background in geography and international affairs lent itself well to this particular project.

"Through her international relations studies, Aurora knew how to examine the political conflict on both a regional and local scale. And as a geographer, she was sensitive to the impacts of this political conflict on the physical environment/geography of the city of East Jerusalem," noted Benton-Short. "The core of geographic inquiry is the relationship between people and their environment, built or natural."

Echavarria traveled again this spring to study geography at University College London and to take courses on the built environment at its Bartlett School of Planning. Her research focused on the ways manmade structures and infrastructure influence how humans live.

"My experiences abroad have deeply influenced my way of thinking about future plans," she said. "I would like to conduct similar research on environments of conflict and expand these ideas and studies to less conventional cities."

"Jerusalem's infrastructure—road systems, transportation network, neighborhoods—is for the most part shaped to reduce interaction between the Israeli and Palestinian residents of the city,"
—Aurora Echavarria





“We hope to demonstrate to both Jewish and Muslim communities in this country that with good will and trust, there is nothing we cannot do together.”
—Muhammad Faghfoory

Special FRIENDSHIP Fosters Creation of Masters IN ISLAMIC Studies

Something special, even symbolic, happened at GW this year when Department of Religion faculty members **Robert Eisen**, who is Jewish, and **Muhammad Faghfoory**, a Muslim scholar from Iran—both devout to their respective faiths—collaborated to create a master's degree in Islamic Studies. It was an idea that grew out of their friendship and mutual interest in Islam and in interfaith dialogue to promote peace and knowledge.

“It shows what can happen when a Jew and a Muslim get together and talk to each other,” said Eisen, chair of the department. “Personal relationships can overcome divisions of many types.”

Eisen became interested in Islam while studying the religion's tradition as a history major at Yale University. When he pursued a PhD in Jewish thought with a specialty in medieval Jewish philosophy, the program included material on Islamic philosophy because of the interconnection between the two religions. In recent years, he has turned his attention to bridging knowledge and understanding among the Abrahamic religions of Islam, Judaism, and Christianity.

Eisen and Faghfoory's collaboration grew out of an evolving friendship that began more than a dozen years ago. Over time, both engaged in interfaith and international activities focused on observing different cultures and reducing violence, particularly in the Middle East.

“Without forgetting who we are, we did not see each other as Muslim and Jew, but as two friends and colleagues who wished to serve the university and the community,” said Faghfoory. “Through our collaboration, we hope to demonstrate to both Jewish and Muslim communities in this country that with good will and trust, there is nothing we cannot do together.”

The new degree offers an insider's perspective of Islamic tradition as a religion, a civilization, a culture, and a political force. Unlike other Islam programs, it incorporates a historical component whether focusing on classical texts or modern Islam.

“We combine both approaches, offering a solid grounding in classical texts with the study of modern politics and international relations in the Islamic world,” explained Eisen. “Students will have the capacity to understand the historical roots behind what's going on in the Islamic world today.”

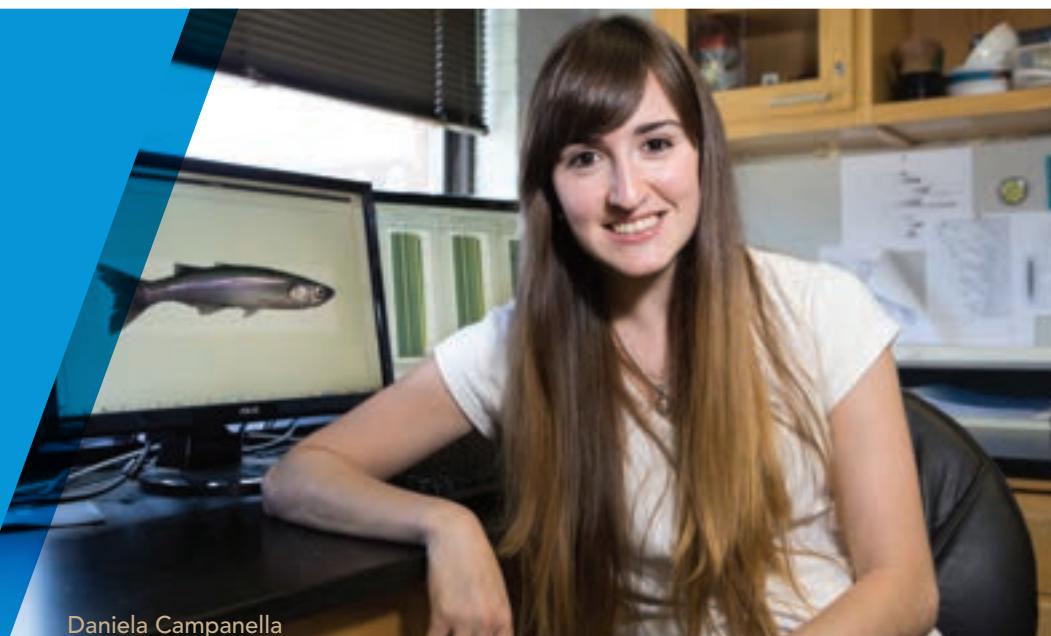
The connection between Islamic studies and other disciplines will bring scholars of religion, history, political science, and international relations together. Guest lecturers will include former ambassadors, other diplomats, and noted spiritual leaders.

“The Middle East, which receives so much attention, is only a small part of the vast world of Islam,” noted Faghfoory. “The majority of Muslims live outside that region but don't receive nearly as much attention, which is why we developed this program using a broad prospective on the complexities and historic roots of the Islamic world.”

Among the program's distinguished faculty are **Seyyed Hossein Nasr**, the University Professor of Islamic Studies; **Kelly Pemberton**, a scholar of Islamic mysticism and women's studies; and **Irene Oh**, who specializes in peace studies. “Rarely can you find a program that includes as many internationally renowned scholars as we have,” Faghfoory said.

In the past, the Department of Religion offered an MA in Hinduism and Islam. That subject area is now a track within the new program, and students may pursue a comparative degree in Islam and Hinduism.

WHAT A CATCH: Biology PhD Candidate Sequences A FISH GENOME



Daniela Campanella

Growing up in Argentina, **Daniela Campanella** fished the fresh lagoons of the Pampas region with her family, catching *Odontesthes bonariensis*, commonly known as the pejerrey. What the doctoral candidate in biological sciences didn't know at the time was that pejerrey would be more than a meal—the fish would also nourish her professional career.

This spring, Campanella, a doctoral candidate in biological sciences, became the first person to successfully sequence the entire genome of the pejerrey, a fish with temperature-dependent gender determination. Her findings will affect biological research around the world.

Born and raised in the city of Florencio Varela, about 22 miles south of Buenos Aires, Campanella spent childhood weekends on the banks of nearby lagoons while her father and grandfather fished for the small pejerreys native to the area. Later, as an undergraduate at Universidad Nacional de La Plata, she became a scientific angler, testing marking techniques on the pejerrey for aquaculture efficiency monitoring. She collaborated with researchers at the IIB-INTECH, a research institute linked to the Universidad Nacional de San Martín and Argentina's National Science and Technical Research Council. IIB-INTECH has developed expertise in an unusual characteristic of the pejerrey: Its environment determines the fish's gender.

“During the first five weeks of the fish larvae stage, when the gonads are developing, the temperature of the water has an effect on sex determination,” said Campanella. “If water temperature reaches 17 degrees Celsius, the new population will be 100 percent female. On the other hand, if the temperature reaches 29 degrees, the fish will all be males. Temperatures in between will result in populations with a mixed ratio of females and males.”

Campanella chose GW for her doctoral research because she wanted to work with Weintraub Professor of Biology **Guillermo Ortí**, a highly regarded scientist with expertise in evolutionary biology and in molecular systematics and phylogeography (the study of relationships between gene genealogies and their geographic location).

“Daniela Campanella was recommended to me by my colleague and collaborator in Argentina, where she had already been studying this species with an ecological focus,” said Ortí. “When she came to GW in fall of 2010, she immediately began working in my lab. In addition to the genome project, Daniela has been sequencing genes from other species of pejerreys to build a genealogical tree—phylogeny—for the whole order.”

For her dissertation, Campanella is creating that phylogeny and comparing eight genes in the pejerrey and closely related species from its family and other families in the same order. She is also sequencing, assembling, and analyzing the entire pejerrey genome in collaboration with colleagues in Argentina. The National Institutes of Health provided Campanella with the bioinformatics training and computational tools required to work on the genome at the J. Craig Venter Institute in Rockville, Md.

“What I enjoy the most about my doctoral research is that every stage is a challenge,”

said Campanella. “I find myself doing something I have never done before, and I love that feeling.”

IMPACT OF SEQUENCING

Sequencing the pejerrey genome will provide insight into evolutionary relations within the fish’s order, Atheriniformes, which contains more than 500 species.

“The impact of developing *Odontesthes bonariensis* genomic resources could be large,” said Ortí. “It will provide genetic resources to improve the efficiency of this species in aquaculture for use in table food production and to seed lakes in many countries, including Argentina, Bolivia, Peru, Japan, and Italy. The genome will also improve this model system for fish endocrinology and sex determination studies,” added Ortí. “Comparative genomics, combined with experimental endocrinology, will shed light into the origin, significance, and maintenance of this unique natural history trait.”

The field of comparative genomics is growing exponentially as DNA-sequencing technology expands and costs drop. Ortí’s lab is part of the Genome 10K project, which is creating a database of vertebrate genome sequences as a resource for science and worldwide conservation efforts. Campanella’s pejerrey genome sequence has been added to the project’s collection of DNA sequences and will help inform the work of other biologists around the globe.

“I never imagined having a whole genome of this nature as my thesis work,” said Campanella. “A few years ago, this was unthinkable. But technology, collaboration, and teamwork made it possible. And the best thing is that this genome will be accessible to and help researchers from other fields.”

*“I find myself
doing something
I have never done
before, and I love
that feeling.”*
— Daniela
Campanella



SHAKESPEAREAN OBSESSION:

Katherine Bradshaw's *Love of the Bard*



Katherine Bradshaw

Forget contemporary authors and playwrights—for Katherine Bradshaw, it's all about William Shakespeare. The rising sophomore's enthusiasm is hard to contain, particularly now that she is able to study, eat, breathe, and live the bard's life through her immersion in the Dean's Scholars in Shakespeare program, a one-of-a-kind living and learning experience offered to Columbian College undergraduate students.

Bradshaw's passion began long before college or even high school English classes. It all started at the ripe age of seven, when her parents gave her a children's book retelling Shakespearean plays.

"I fell in love right away," said Bradshaw, who is majoring in the classics, with a minor in English. "I begged for more of his books and devoured every 'Shakespeare for Kids' work I could find." She even listened to a full recording of *The Tempest* over and over until she had it memorized. And the complex Shakespearean language was no problem for young Bradshaw; her mind absorbed it at the same time that she was mastering ordinary second-grade vocabulary.

"After the children's versions, I moved to listening to full-length audio dramatizations," she said. "Since I'm an auditory learner, this helped me to appreciate the beauty and power of the bard's language. In effect, I read Shakespeare with my ears as much as with my eyes."

While in elementary school, Bradshaw read mostly the comedies, but she branched out to the playwright's histories and tragedies in middle and high school. By 10th grade, she had read all 38 of Shakespeare's plays at least once and studied most of them in-depth. She also enrolled in a Shakespeare class each year in high school.

At the same time, she took part in summer youth camps with the Shakespeare Theatre Company in Washington, D.C., performing in *Macbeth*, *Titus Andronicus*, *Othello*, and *Richard III*. During the summer before she arrived at GW, she attended the company's advanced camp, a three-week intensive program that, among other activities, trains students to play one character for an entire show.

Though Bradshaw's parents weren't English teachers or Shakespeare enthusiasts, they indulged her passion. When she and her parents researched colleges, they discovered the Dean's Scholars in Shakespeare Program—the only one of its kind in the country.

"It is the only one in which your study of Shakespeare begins in your first year, and students are put together in a unit, a body, so they can study together," she said. "You are immersed in a group that talks about Shakespeare constantly."

The co-curricular interdisciplinary program exposes students to specially tailored introductory seminars, guest artists and lecturers, film festivals, performances at D.C.'s Folger Theatre and the Shakespeare Theatre Company, and faculty-led travel to

“It’s amazing how [Shakespeare’s] timeless messages transcend language and culture and still impact us today.”
—Katherine Bradshaw

London and Stratford-upon-Avon. Students are also given special access to the rare collection of Shakespeare materials at the Folger Shakespeare Library in D.C.

Alexander Huang, director of the program and professor of English, has been particularly impressed by Bradshaw’s commitment. “She has turned out to be quite a wonderful ambassador,” said Huang. “A poster child, if you will, for the program: self-motivated, well-prepared, smart, collegial, and ambitious. She is the kind of student GW should continue to invest in and retain.”

This summer, Bradshaw returned to the Shakespeare Theatre Company as an intern, helping with a program focused on performance learning—a method that teaches students about plays through acting. She worked with actor-trainers to guide middle and high school students on ways to interpret and act out Shakespearean texts. “Even students not intending to be actors got a lot out of it because of the real-life skills they learned, such as being persuasive and empathetic to others,” said Bradshaw.

Bradshaw also works with grade school students, acting out stories using Dr. Seuss books or works by Rudyard Kipling, which often carry Shakespearean themes, or by reciting a 10-minute version of *The Taming of the Shrew*. She enjoys tracing the journey of classical thought through Shakespeare by relating it to modern times.

“Shakespeare is everywhere,” she said. “It’s amazing how his timeless messages transcend language and culture and still impact us today.”

Learning Briefs

TSPPPA MENTORS ANACOSTIA STUDENTS

The Trachtenberg School of Public Policy and Public Administration (TSPPPA), which recently celebrated 50 years of public service education, has a long tradition of partnering with the Anacostia Public High School in Washington, D.C., to tutor and mentor high school students interested in public service, leadership, community development,



and politics. Last year, public policy graduate students **Ana Jara** and **Rachel Evans** led the volunteer efforts of the Anacostia Public Service Program, an outgrowth of the partnership. TSPPPA students build relationships with the high school through in-classroom support and service-learning projects, at the same time they address youth policy and education issues—such as literacy—in the District of Columbia.

JUMP TO SUPPORT MATH AND PHYSICS UNDERGRADS

The National Science Foundation awarded a five-year, \$614,400 grant



to launch the Joint Undergraduate Mathematics and Physics Scholarships (JUMP). The program provides scholarship and mentoring support to 30 select mathematics and physics undergraduates to encourage continued study in science, technology, engineering, and math (STEM). The students will receive support from their sophomore through senior years. **Yongwu Rong**, chair of the Department of Mathematics, spearheaded the initiative’s launch.

Supporting faculty members are Associate Professor **Gerald Feldman** and Professor **Larry Medsker** of the Department of Physics, and Associate Professor **Svetlana Roudenko** and Professor **Daniel Ullman** of the Department of Mathematics.

ECONOMICS, BIOLOGY UNDERGRADS WIN TOP PRIZES

Three top prizes at GW’s “Research Days 2013” went to Columbian College undergraduates. **David Pomeroy**, an economics student, won first prize in the area of social sciences for a public transportation

study of Metro's SmarTrip Card program. Economics major **Jeffrey Messina** received second place in the same category for his evaluation of Federal Reserve Greenbook forecasts. Another second-place prize, this time in natural sciences, went to **Jaishri Atri**, a biology student researching the effect of endosymbiotic bacteria on fruit flies.



Research Days, an annual two-day event, showcases student research, creative scholarship, and cultural discovery through poster sessions, presentations, and guest speakers.

DEAN'S SCHOLARS IN GLOBALIZATION GO TO ASIA

As an associate professor of psychology and organizational sciences, **David Costanza** teaches students how organizations develop and deliver their human resource systems. He took his lessons farther this summer—almost 10,000 miles farther—when he led students through Singapore,



Vietnam, and China as part of the Dean's Scholars in Globalization Program. This year's students researched how culture impacts the structures of multinational organizations. Participation in the selective program provided students with useful national comparisons and exposure to global experiences.

GALLERY 102's "ART+EVOLUTION" COUPLES SCIENCE AND THE FINE ARTS

Captivating student work was exhibited in "art + evolution," an artistic collaboration by fine arts and hominid paleobiology students in the student-run Gallery 102. The exhibit juxtaposed photography by anthropology students during excavations, field work on primate wildlife, and laboratory research with sculpture, ceramics, mixed media, and video works inspired by the photographs. Art + evolution challenged viewers to consider the evolutionary bases of

creativity, and the origins of inspiration. The exhibition was the brainchild of hominid paleobiology doctoral candidates **Kes Schroer** and **Serena Bianchi** and junior **Roxanne Goldberg**, an art history and journalism major.

ENRP STUDENTS ADDRESS REAL-WORLD PROBLEMS

More than a grade was riding on year-end capstone projects by students in the Environmental Resource Policy (ENRP) graduate program. Their research may also influence environmental policy. In collaboration with the Department of Energy (DOE), Environmental Protection Agency (EPA), and advocacy group Environment America, the students made recommendations on policies involving the impact of confined animal feeding operations on water quality; the economic, environmental, educational and recreational value of the National Park Service; DOE's remediation plan for uranium-contaminated

areas; and challenges of the EPA's proposal to combine global data about toxic chemicals. The students presented their findings to faculty and federal agency representatives in May.

DESIGN STUDENTS APPLY SKILLS TO WOODLAWN ESTATE

Jasmine Callender, an undergraduate in fine arts and interior architecture and design, led the team that won second place in a competition to redesign rooms at the historic Woodlawn Estate in Alexandria, Va. Callendar and her team were asked to transition Woodlawn, which was originally part of George Washington's Mount Vernon estate, into a functioning home for a modern family. The team's design focused on environmentally friendly, sustainable, and healthy practices. They were awarded for their design of the estate's dining room. The National Trust for Historic Preservation and MADE: In America sponsored the competition.



Left to right, ENRP's Susanna Murley, Forrest Miller, Emily Halter, and Anthony Cefali worked on the project involving uranium contamination.



YOUNG LOVE: *What CAUSES DYSFUNCTIONAL Romance?*

The way young adults respond to the intense emotions that come with romance may say something about how they were brought up. Recent graduate **Michelle Kuhn**, BA '13, looked at factors such as cultural background, learned behaviors, and predisposition to depression and social phobia to see whether they foreshadow dysfunctional relationships for individuals aged 18-25.

During her senior year, Kuhn worked with Associate Professor of Psychology and Director of Clinical Training **Christina Gee** to develop a survey to gauge how individuals acted during their most recent romantic relationships. She looked at whether these actions and interactions correlated with what the individuals observed in other influential relationships in their lives, including those of their parents, adult mentors, peers, or siblings. Kuhn's questionnaire was based on findings from Gee's earlier study on relationship behaviors.

"Results have shown significant correlations between observed relationship behaviors—both positive and negative—and the behaviors individuals demonstrate in their own relationships," said Kuhn. "That includes how they communicate with their loved ones, support each other, and how much time they spend with their significant other."

The study's preliminary findings indicate that young adults tend to behave in romantic relationships in the same manner as their parents.

"For example, if individuals witness their parents physically fighting early in their lives, they may be more likely to do so in their own relationships," explained Gee. "However, if the individuals appraise these behaviors as undesirable then they would be less likely to model that behavior in their own romantic relationships."

Kuhn noted that romances in the stage of emerging adulthood are important in determining how people will address future relationships. "It is likely that individuals will continue to demonstrate many of the behaviors they have reported in this study," Kuhn said. "However, I would hypothesize that the behaviors individuals demonstrate, but do not desire or admire in themselves, will be more likely to change than those they view positively or ambivalently."

Kuhn and Gee presented results of the study at the American Psychological Association's convention in July. Kuhn began a doctoral program in clinical psychology at Seattle Pacific University this fall.



"Results have shown significant correlations between observed relationship behaviors—both positive and negative—and the behaviors individuals demonstrate in their own relationships."
— Michelle Kuhn



DRONES:

Imagine a robot flying with a gun, chasing an elderly woman into an alley, and ordering her to drop her purse. Terrified, she complies and runs away. The robot then swoops down, scoops up the purse, and takes off in flight.

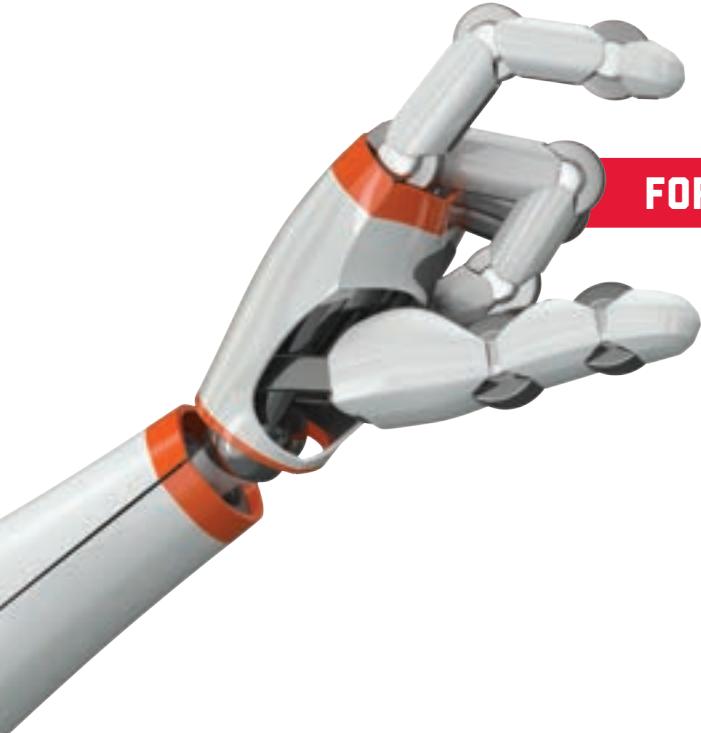
Science fiction? Maybe not.

In debates about the proliferation of drones—the informal name for Unmanned Aerial Vehicles (UAVs)—there is much concern about privacy rights but much less discussion about how criminals might use them. According to **Victor Weedn**, an accomplished forensic pathologist and chair of the Department of Forensic Sciences, drones could soon become a major tool in the arsenal of criminals everywhere.

And he fears the forensics community is not prepared to investigate crimes committed with the flying robots.

“We anticipate proliferation of UAVs in the civilian community, and it seems to us that we’re not ready for that,” said Weedn, who is coauthoring a paper on the subject with public safety technologies expert Anthony Hallett. “We in the forensic sciences community need to discuss the implications for what we do and figure out how to prepare.”

The Federal Aviation Administration has limited the use of drones in public airspace; however, those tight restrictions will expire in 2015. The result could be a huge increase in the use of unmanned flying robots by hobbyists, businesses, government agencies . . . and perhaps those harboring criminal intent.



FORENSIC SCIENCE POWERHOUSE

Victor Weedn’s concern about the potential use of drones to commit crimes is just another example of how he remains on the cutting edge of issues involving forensic investigation.

As a founder and former chief of the Armed Forces DNA Identification Laboratory (AFDIL), Weedn was instrumental in identifying the remains of Russian Czar Nicolas II, as well as those of service members who died in the first Gulf War, the Vietnam and Korean wars, and World War II. Under his leadership, AFDIL broke new ground with the use of forensic technologies, such as laser-induced fluorescence, and developed the first truly portable DNA testing equipment. That device became the basis for U.S. Postal Service anthrax detection equipment.



The Criminal Factor

UAVs are also becoming easier to acquire because electronics and communications equipment are relatively inexpensive, further fueling the increased presence of drones across the globe. “The sky is going to be dark with these things,” alumnus **Chris Anderson**, BS ’81, the former editor-in-chief of *Wired*, recently predicted in a story for *The New York Times*.

In the United States, most UAVs are used for search-and-rescue operations or to meticulously photograph disaster areas from above. However, there are already documented cases of smuggling and terrorism operations using drones.

“UAVs enable small groups with modest sums of money to do great harm,” noted Weedn. “Crimes that can be facilitated using drones include theft, arson, vandalism, dropping explosives or biological weapons, secretly videotaping closed events, disabling security equipment, and launching cyber-attacks.”

To thwart criminals, Weedn recommends that forensic investigators acquire specialized skills involving radio communications, digital evidence, and engineering. He also encourages the development of databases to help track types of robots and the tools—such as remote controls and electronic control systems—used to operate UAVs.

“But, as much as you do that, there will always be people using different trigger mechanisms or control systems,” he said, “and the varying types become endless.”

“We anticipate proliferation of UAVs in the civilian community, and it seems to us that we’re not ready for that.”
—Victor Weedn

Weedn’s list of other accomplishments is long and impressive. He successfully spearheaded an effort to create a consolidated genetics program within the Department of Defense and to develop molecular pathology standards for clinical laboratories. In addition, he helped draft a position paper on genetic privacy for the College of American Pathologists and later testified before Congress on genetic privacy issues.

And, just this past summer, Weedn was featured in the Investigation Discovery TV program “Evil Twins.” He served as an expert on forensic DNA in the “Blood Brothers” episode about a set of twins, one of whom had committed murder.



Victor Weedn



Turtle Ants: **SHIELDED** from **DANGER**

Scott Powell has spent many summer hours sitting in trees in eastern Brazil. Among the branches and tropical wildlife, the assistant professor of biology watches the turtle ant, a remarkable little creature distinguished by a dish-like head that acts as a shield against intruders. The insect fascinates Powell not only because of the intimate connections between the ant's unusual physical features and its habitat, but also because of its interactions with other ant species.

Turtle ant society is marked by an elaborate caste system. Each colony has one queen and many workers and soldiers. The ants get their name from the peculiar appearance of the workers: Much like a turtle, they have an outer shell under which they can pull their antennae and legs when danger lurks nearby. They can also flatten themselves against the ground or even slide beneath bark to hide from predators.

The soldiers in a turtle ant colony are bigger than workers and have large shields on their heads, "shaped like a dinner plate," said Powell. The colonies live in tiny cavities in trees, often vacated by wood-boring beetles, and soldier turtle ants wedge their head plates into cavity openings from within to protect the colony from marauding groups of foreign ants. A sharp ridge around the edge of the head plate allows a soldier to twist and mechanically screw his head plate into the wood, making it almost impossible for aggressive ants or other predators to invade the colony's home.

The elaborate head disc of the turtle ant soldier can be seen on the left, compared to the worker ant's flatter shield.

"A colony of turtle ants chooses its home by finding a cavity whose entrance precisely matches its soldier's head plate," said Powell. "The head plate is a characteristic that evolved over time and one that helps the turtle ant survive today. It is also indicative of the effect the ants' environment has had on their physical features over time."

Powell noted that Charles Darwin mentioned the genus in his groundbreaking *The Origin of Species*.

With data that Powell and his collaborators gathered from observing the ants and measuring their physical attributes and the cavities in which they live, a phylogenetic (evolutionary) tree diagram has been created that depicts the relationships among the more than 115 turtle ant species. The resulting



Research Briefs

chart is the first of its kind for turtle ants and allows the researchers to explore in greater detail how the environment has shaped the evolution of the group.

To enable better understanding of how the ants evolved, Powell placed colonies in tree cavities that were slightly larger than the soldiers' head plates. He found that the ants did not survive as well in this environment. They often ended up being usurped by other ant species, illustrating that the ants' bodies evolved based on their habitat.

"Turtle ants have many more species than most other ant genera, and our research sheds light on traits that have allowed diverse groups of organisms to be so successful," said **Shauna Price**, a Columbian College post-doctoral scientist working with Powell. "Our research contributes to understanding how diversity was generated in the [Neotropic] region with remarkably high levels of biodiversity."

Powell and Price are also examining how external factors, such as deforestation and global warming, affect the ants' habitat and survival. Much of Brazil's savannah region where the ants live is being turned into farmland.

"I hope to translate our results into conservation-minded perspectives," Powell said. "Turtle ants have an intimate relationship with the environment in which they live. Over 46 million years, their environment has made them into the complex creatures they are today."

Powell's research team is nearing the end of two multi-year projects that were awarded \$900,000 in funding from the National Science Foundation. He is now putting together a funding proposal for a larger study on the armor of the turtle ants.

SPECIES OF DINOSAUR IDENTIFIED

Fossils found in China by **James Clark**, Ronald B. Weintraub Professor of Biology, are thought to be the remains of a new species of small theropod, or meat-eating dinosaur, dating from the Jurassic period. Clark and his then doctoral student **Jonah Choiniere**, along with a team of international researchers, discovered the skull, mandible, and partial skeleton of the dinosaur in a remote region of Xinjiang. Their discovery was published in *Journal of Systematic Palaeontology*. The theropod, believed to be young when it died, probably was about three feet long and weighed



all of three pounds. The dinosaur is named *Aorun zhaoi* after the Dragon King in the Chinese epic tale *Journey to the West*. Choiniere, PhD '10, is now a senior researcher at the Evolutionary Studies Institute in South Africa.

POWERFUL BITE OF THE PIRANHA

The most powerful bite of a carnivorous fish belongs to the black piranha and the now-extinct giant piranha, or

megapiranha, according to research by **Guillermo Ortí**, Louis Weintraub Professor of Biology. Ortí took body size into account during his research, which found that the piranhas' specialized jaw structure allows them to bite chunks out of much larger prey. The powerful bite is the result of large muscle mass in the jaw and a jaw-closing lever. Ortí and a group of researchers traveled to the Amazon region to collect data on the fish. Their study was published in *Scientific Reports*.

BRAIN REGION FOR EMPATHY EXISTS IN OTHER PRIMATES

The part of the human brain that is linked to human empathy—a cognitive capacity thought to be uniquely human—also grows to the same scale in many other primates, according to a study co-directed by anthropology professor **Chet Sherwood** and anthropology doctoral candidate **Amy Bauernfeind**. The team examined the part of the brain called the insula in 30 species of primates, from humans and gorillas to the slender, wide-eyed lorises. Although a chimpanzee's





insula is bigger than that of a macaque's, and a gorilla's is bigger than a chimp's, a human insula is larger. This suggests that people have a greater ability to empathize, according to the findings that were published in the *Journal of Human Evolution*.

SRI LANKAN STUDY UNCOVERS NEW SNAKE SPECIES

Alex Pyron, assistant professor of biology, and a team of researchers have discovered a new genus of blind snake in Sri

Lanka through the sequencing of snake DNA. The researchers also confirmed the identity of 60 known species of snakes in Sri Lanka, demonstrating the island's snake biodiversity. They used DNA sequencing technology on 40 species to understand how they are linked to one another as well as their evolutionary relationship to other species. The findings appeared in the journal *Molecular Phylogenetics and Evolution*.



Alex
Pyron

COLUMBIAN BOASTS FULBRIGHT SCHOLARS

The prestigious Fulbright Scholar Program selected three Columbian

College faculty members to receive research funding for 2013-2014. **Peg Barratt**, former dean and a professor of psychology, is spending six months in Japan studying the effect of Japanese policies on early childrearing practices. **Elizabeth Chacko**, associate professor of geography and international affairs, traveled to the National University of Singapore to research the integration of new and old streams of immigrants from South Asia. And **Gerald Feldman**, associate professor of physics, is collaborating with two Italian theoretical physicists at the University of Trento to combine the pedagogical and research elements of nuclear physics.

COLLABORATION WITH SMITHSONIAN

For the second year in a row, Columbian College faculty members are working with Smithsonian researchers through the GW-Smithsonian Opportunity Fund, a collaboration designed to share knowledge and spark discovery. The partnership encourages scholars from disparate areas to come together on startup projects with seed funding from both institutions. This year's projects focus on the interaction between plants and the bees that

pollinate them; the long-term impact of fungus on mineral erosion; fish diversity and how physical attributes of ray-finned fish shed light on their evolution; and forest ecology as it relates to climate change, ecosystem carbon storage, and DNA sequencing of fungal genes. Faculty members working on the projects are, respectively, Associate Professor of Biological Sciences **John Lill**, Associate Professor of Chemistry and Geosciences **Henry Teng**, Professor of Biological Sciences **Guillermo Ortí**, and Assistant Professor of Biological Sciences **Amy Zanne**.

HOW THROWING MADE US HUMAN

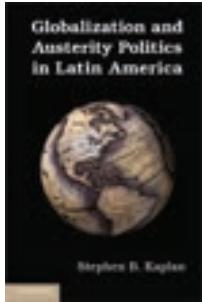
Little leaguers and professional baseball players alike have our extinct ancestors to thank for their success on the pitcher's mound, according to a study by **Neil Roach**, a postdoctoral scientist in Columbian College's Center for the Advanced Study of Hominid Paleobiology. Roach found that the ability to throw evolved nearly 2 million years ago as an aid in hunting. "Chimpanzees are incredibly strong and athletic, yet adult male chimps can only throw about 20 miles per hour—one-third the speed of a

12-year-old Little League pitcher," Roach said. He and colleagues found anatomical features that evolved in the torso, shoulder, and arm. The study, funded by a grant from the National Science Foundation, was featured in the journal *Nature*.

SOLAR CEMENT GREENS THE GRAY

Cement may be an essential ingredient in building cities, but the process of creating cement—a chief ingredient in concrete—generates nearly as much carbon dioxide as it does of cement itself. Chemistry professor **Stuart Licht** is trying to cut that greenhouse gas rate to zero through a solar-powered process. Licht and an interdisciplinary team of GW scientists are working to perfect this "solar cement," an effort that could go a long way toward greening an industry that Licht says accounts for as much as 5 percent of the world's manmade carbon dioxide. Licht's solar-powered process was awarded a \$1.7 million grant from the National Science Foundation.

A Sampling of New Books by Columbian College Faculty



Globalization and Austerity Politics in Latin America

In an age of globalization, are markets and democracy compatible? When is austerity imposed externally and when is it a domestic political choice? *Globalization and Austerity Politics in Latin America* by Professor of Political Science and International Affairs

Stephen Kaplan examines the effect of financial globalization on economic policymaking. The book challenges the conventional wisdom that political business cycles are prevalent in newly democratizing regions.

Studying countries such as Argentina, Brazil, Chile, Ecuador, and Venezuela using a multi-method research strategy, Kaplan's book investigates how relations between international creditors and national debtors affect economic policy choices.

Reinventing Professionalism: Journalism and News in Global Perspective

Prevailing anxiety about the future of journalism adds timeliness to the notion of professionalism in the media. In *Reinventing Professionalism: Journalism and News in Global Perspective*, Professor of Media and Public Affairs **Silvio Waisbord** argues that professionalism should be used as a tool of specialization and to control occupational practices.



As today's technological, political, and economic climates shake news outlets, Waisbord critically assesses journalistic professionalism in a global context. In his book, he refers to reporting that observes certain ethical standards as well as to collective efforts by journalists to exercise control over the news.

Globalization and Austerity Politics in Latin America

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The Trojan War: A Very Short Introduction

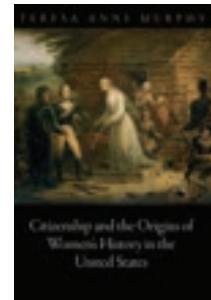
The Iliad, Homer's epic tale of the abduction of Helen and the resulting decade-long Trojan War, has fascinated audiences for generations. The war has inspired countless books, movies, television documentaries, and art. In *The Trojan War: A Very Short Introduction*, **Eric Cline**, chair of the Department of Classical & Near Eastern Language & Civilizations and professor of classics and anthropology, taps archaeology, Hittite texts, and Greek legend to investigate the truth about the infamous war so often prominent in U.S. pop culture.



Cline offers an original perspective on the war, examining events that may have inspired Homer's timeless epic. He investigates the question of whether the Trojan War was a real historical event and whether the actual site of ancient Troy has been correctly located. He also challenges the assertion that Helen's abduction was the impetus for the war.

Citizenship and the Origins of Women's History in the United States

Narratives about women's history between the late 18th century and the American Civil War are constantly changing. Associate Professor of American Studies **Teresa Anne Murphy** outlines the development of women's history during this period in her book *Citizenship and the Origins of Women's History in the United States*.



Murphy examines literature that promoted domestic citizenship and looks at how these historical writers set the stage for a more progressive women's rights campaign. She demonstrates that citizenship is at the heart of women's history and, consequently, that women's history is also the history of nations.



Shaping Mathematics . . . *Literally and Figuratively*

From the time he was 7 years old and his father brought home a thick library book about origami, **Lowell Abrams** has been fascinated by how shapes can be folded and fit together. Legos, Tinkertoys, and other construction sets also captured his childhood imagination.

Today an associate professor of mathematics, Abrams still builds with small models and collections of various pieces and shapes on his desk, but now he does it to help with abstract ideas. "These are hands-on manifestations of the concepts I grapple with in my work and artistic imagination," he explained.

For Abrams, who works with complex mathematical concepts based on cell structures (not human cells, but small components of objects, such as honeycombs), it is important to continuously bring excitement into mathematics. One way is take time to "play."

"My work involves the interplay of cellular structure and symmetry. I am fascinated by the way we can build beautiful shapes, whether abstract or concrete, out of finite pieces, and by the role symmetry plays in these constructions—all of which includes notions such as folding/unfolding and collapsing/expanding," he said. "Hence, my interest in origami."

"These [shapes] are hands-on manifestations of the concepts I grapple with in my work and artistic imagination."
—Lowell Abrams

Each year, Abrams visits the school his children attend and gives age-appropriate lessons using items that are part of the students' daily lives. Recently, he showed second graders different ways shoelace knots can behave, depending on how they are tied—a simple and fun example of knot theory, the high-level concept studied by many mathematicians. He has also visited the classrooms of upper-level students, including a 12th grader who spent a six-week senior internship working with Abrams.

Abrams likes to correlate hands-on examples with complicated concepts in order to foster continued interest in math. This is particularly important for engaging young women, who statistically shy away from careers in science, technology, engineering, and mathematics (STEM) fields. He points to the example of a now distinguished female mathematician who realized she wanted to go into the field when, as a child, she watched a Möbius Band demonstration that involved the folding and cutting of a ribbon.

"The point is to make math concrete for young people, so they will see it's interesting to think about and isn't just about numbers," Abrams said. "I feel very good about going into the K-12 classrooms. I'm doing what I can to get kids inspired."

Unlocking a

In a study led by Assistant Professor of Chemistry **Cynthia Dowd**, researchers identified a potential new route for attacking tuberculosis that could hold promise against drug-resistant strains of the disease and even dormant TB infections.

Dowd's team, which included **Emma Edelstein**, BS '13, and **Emily Jackson**, PhD '13, designed and tested molecules that work like a chemical Trojan Horse, sneaking past the defenses of TB-causing bacterial cells and, once inside, blocking functions essential for survival. Their work was published online this summer in the journal *MedChemComm*.

"TB remains a huge threat to global public health," said Dowd. "New therapeutics are essential for combating drug-resistance and staying one step ahead of the bug, so to speak. Our work seeks to validate a drug target that is not used by current drugs."

The impact of tuberculosis—a chronic bacterial infection, usually of the lungs—hangs over thousands in the United States and millions worldwide. Though TB infection rates are declining, an estimated 8.7 million new cases and 1.4 million deaths were reported in 2011, according to the World Health Organization. About one-third of the world population is thought to have latent TB, an inactive infection that carries no symptoms and cannot be spread unless it becomes activated.

In the new study, the chemicals targeted an enzyme known by the abbreviation

CURE for TUBERCULOSIS

Dxr. Enzymes drive life-sustaining chemical reactions inside cells and are common targets for drug treatments. Operating like a lock-and-key mechanism, enzymes like Dxr have openings that fit correspondingly shaped molecules. Once they attach to the enzyme, molecules are broken down or combined to forge yet other molecules for use inside the cell.

Enzyme inhibitors, like those created by the research team, act as false keys and block that process. “The key doesn’t open the lock, the key gums up the lock,” explained Dowd. “It occupies the lock so the right key can’t fit in there.”

Jackson added, “Our hope is that by targeting that enzyme, we will kill the bug. The ultimate goal is to cure TB.”

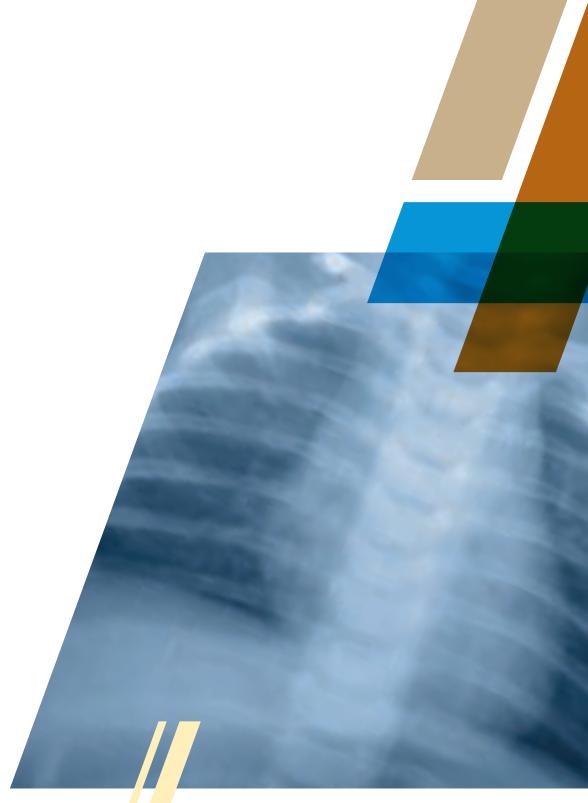
The team set out to hamper two of those locks, or binding sites, on the Dxr enzyme: one for fosmidomycin, a proven disruptor of Dxr that is rebuffed by the cell wall of the bacteria that causes TB, and the other a binding site for a molecule called NADPH.

Building on their previous work showing that a molecule can be chemically disguised to gain entry into the TB cell, the researchers mimicked both fosmidomycin and NADPH with a masked, a two-pronged key that stretched from one binding site to the other. The two-pronged approach, rather than using two separated chemicals, can offer a tighter fit into the binding sites.

The work was a success—and a surprising one at that. The false key for NADPH actually missed its mark and landed in another, unrecognized binding site on the enzyme.

According to Dowd, the discovery marks the first time the Dxr enzyme has been used to kill TB. The research fuels optimism that TB’s resistance to drugs can be sidestepped. Since Dxr is involved in basic, root-level functions of cells, strategies to disrupt it may also prove useful against dormant TB infections.

The team, which includes researchers from the National Institute of Allergy and Infectious Diseases at the National Institutes of Health, will now try to determine exactly how the chemical works and how to sharpen its potency.



“TB remains a huge threat to global public health. New therapeutics are essential for combating drug-resistance and staying one step ahead of the bug.”
—Cynthia Dowd

New Designs, New Discoveries

Cynthia Dowd works in a large open laboratory that features a new air-handling system and spaces designed for the exchange of ideas.

It is part of a synthetic chemistry lab created in 2012 as a prototype for the research spaces being built within GW’s new research and teaching facility, Science and Engineering Hall (SEH).

Dowd shares the lab with **Adelina Voutchkova-Kostal**, also an assistant professor of chemistry, whose research focuses on making industrial processes less polluting and household products safer for humans and the environment.

Construction of SEH, located at 22nd and H streets on the Foggy Bottom Campus, is slated for completion in late 2014. The 400,000-square-foot building will bring much of GW’s efforts in biology, chemistry, hominid paleobiology, and engineering and applied science together under one roof.

DEFINING FRIENDSHIP



“Friendship is a compromise between the push and pull of two feelings: love, which annihilates the distance, and respect, which restores it.”

Tatiyana Apanasovich,
Assistant Professor of Statistics



“I cite none other than Groucho Marx who said ‘Outside of a dog, a book is man’s best friend. Inside of a dog, it’s too dark to read.’ All kidding aside, Groucho was on to something. My dog possesses qualities we wish all our friends had. His loyalty is inexhaustible. He sticks by me merely because it’s me, forgives within moments the harsh tone of my impatience, and never fails to show me his affection. Books, as Groucho clearly understood, embody many of the same qualities. They challenge us, inform us, give us adventure and solace, and insist that we live up to our full intellectual potential. With any luck, we will all have friends with these qualities. But if not, we will always have our books and our dogs.”

Stephen Forsell,
Director, LGBT Health Graduate
Certificate program



“I define a true friend as someone you can count on, no matter what, to tell you when you are wrong in private, but to back you up when you go out on a limb in public.”

Tyler Anbinder,
Professor of History



“A friend is someone who knows your heart and sees your soul, your myriad qualities, your goodness, and your not so goodness, calls you out when needed, and loves you anyway.”

Geralyn Schulz,
Associate Dean for Research
and Outreach and Professor of
Speech and Hearing Science



“Friendship is a delicate cocktail, blending social support, evaluative feedback, and intellectual growth.”

Nils Olsen,
Assistant
Professor of
Organizational
Sciences



“When I think about friendship, what immediately comes to mind is the South African word *ubuntu*—the concept that ‘I am because you are.’ When in the company of my closest friends, I like the person that I am, and I hope they feel I bring out their own best selves. A friend must be unselfish and loyal, ready to ‘jump into the fray’ when needed. In the words of Cole Porter, ‘if you ever lose your teeth when you’re out to dine, borrow mine.’”

Leslie Jacobson,
Director of the Academy of
Classical Acting and
Professor of Theatre



ARISTOTLE DEFINED FRIENDSHIP AS A "SINGLE SOUL RESIDING IN ONE BODY." JANE AUSTEN DESCRIBED IT AS THE "FINEST BALM FOR THE PANGS OF DISAPPOINTED LOVE." AND OSCAR WILDE ADROITLY NOTED "TRUE FRIENDS STAB YOU IN THE FRONT."

HOW WOULD YOU DEFINE FRIENDSHIP? A HANDFUL OF COLUMBIAN COLLEGE FACULTY MEMBERS WERE RECENTLY ASKED WHAT FRIENDSHIP MEANS TO THEM. HERE'S HOW THEY RESPONDED.



"At a time when many people rely on Facebook postings and news feeds to maintain friendships, it's the real-time, in-person—or at least telephonic—interactions that continue to define friendship for me. Whether it is someone you see on a daily basis or a 'bookmark friend' who understands you so intimately that you can easily pick up where you left off, a friend is always there for you. And they are as eager to share your bad news as your good, as willing to comfort as to celebrate. As Marlene Dietrich once said, 'It is the friends you can call up at 4 a.m. that matter.'"

Chad Heap,
Associate Professor of American Studies



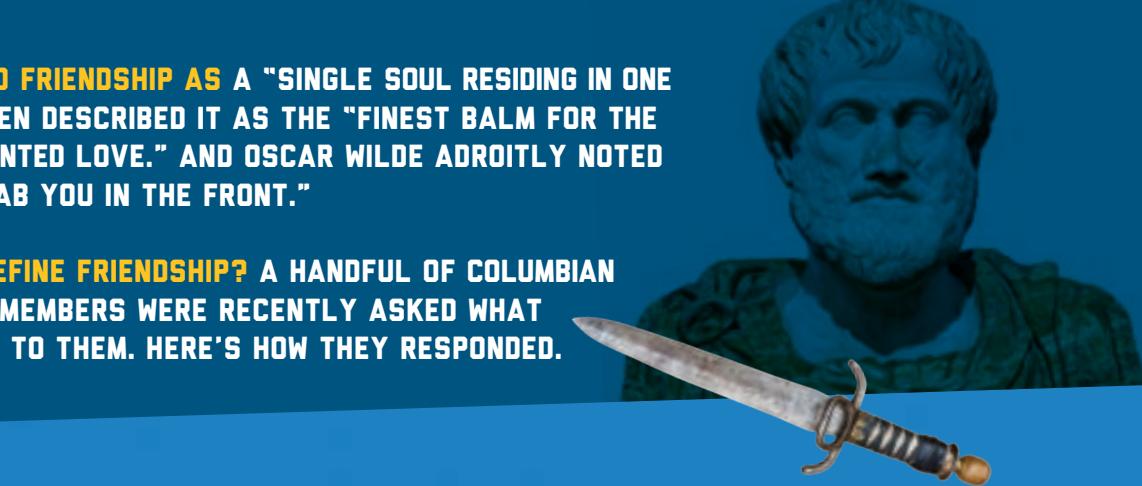
"Friendship for me is Janet and Gina, my best friends from fifth grade at Flynn Park Elementary School in Missouri. After nearly 50 years, they are still my best friends. Now, that's a very long friendship . . . the best friendship gets."

Nina Seavey,
Assistant Research
Professor of History and of
Media and Public Affairs



"The Greek philosopher Epicurus stated it best: 'Of all the things that wisdom provides to help one live one's entire life in happiness, the greatest by far is friendship.' I believe that friendship and happiness are inextricably linked. When you recall some of the best times of your life, you're most likely remembering moments with your friends."

Catherine Anderson
Assistant Professor of Interior
Architecture and Design



"Friendship conjures up that feeling you have when you can't wait to see someone because you can't wait to feel how you feel around them."

Christopher Cahill,
Professor of Chemistry and
International Affairs



"A friend is someone who listens patiently, speaks gently but honestly—even when it's not what you want to hear—has your back on both the sunny and the stormy days, and is always ready to run face first into the next adventure with you."

Eva Vincze,
Professor of
Forensic Sciences



UNIMAGINABLE JOURNEYS:

From Friendship to Surrogacy

By Heidi Bardot, MA '99, director, GW Art Therapy Program

I didn't know it at the time but my experience as an art therapy graduate student nearly 15 years ago proved life-changing not only professionally but—more surprisingly—on a very personal level. I discovered my passion to help traumatized individuals express their emotions through art, while also developing incredible friendships with similarly souled women. But it was one friend in particular, **Helena (Lena) Hillinga, MA '98**, who recently provided the ultimate demonstration of the deep connection between us—she gave me the gift of life.



Heidi and Frederic Bardot, center, with their newborn Luca Bardot; and, left and right, Lena and Doug Haas and their children Carlena and Adriaan Haas

When we were students, Lena and I immediately bonded over our similar histories of growing up overseas and our love of art therapy. We dreamed and planned and, upon graduation, traveled for four months through the Middle East and Europe, meeting with counselors, social workers, art therapists, school leaders, NGO representatives, and anyone who would let us bring art therapy to their organization. We carried everything on our backs: art supplies, paper, laptop, camera, video, and shared clothing.

We began in my country of birth, Lebanon, and ended in Lena's home country of Holland. Along the way, we did art work with students in Athens, shared

ice cream with local art therapists in Florence, rode bikes through Switzerland, and hopped an endless night train to Portugal. I got engaged in Paris, and, together, we met my in-laws for the first time and shared a champagne toast with them. We collected more than 150 pieces of artwork and presented our research the following year at an American Art Therapy Conference.

In the ensuing years, we both got married, changed jobs, celebrated numerous birthdays, and welcomed the birth of Lena's twins—all events that deepened our friendship despite the fact that Lena had long since relocated to Seattle.

Two years ago, when Lena found out that I could not medically carry a child, she and her husband, Doug, offered my husband, Frederic, and me a true gift—to become a surrogate for our child. On June 4th, our son was born with all four of us there to witness his birth.

It has been an amazing process to experience such love and generosity. Both Lena and Doug have sacrificed in order to bring our dreams to fruition and to allow us to have the joy of parenting that they have experienced with their two children. The four of us have been deeply connected and bonded by this experience—we have become family.

Lena and I often think back to what brought us together...GW and its Art Therapy Program. Today, as the director of that same program, I continue to seek ways to foster an environment where students not only learn, explore and grow professionally and clinically, but also where they can bond and create deep connections emotionally with others. The possibilities are endless and often unimaginable, but sometimes they begin with the smallest of seeds in the most unassuming of places.

“We are thrilled to have a graduate program that extends the remarkable environmental legacy of Roger Kennedy.”
—Tara Wallace

GIFT Enables Partnership with NATIONAL PARK SERVICE

A top priority of the National Park Service (NPS) is aimed at building knowledge about America's natural and cultural resources. The new graduate certificate in Contexts of Environmental Policy program, launched this fall, supports that goal by preparing emerging NPS leaders involved in the preservation of public lands and cultural heritage.

The program was inspired by a gift from the late **Roger Kennedy**, a former NPS director and part-time professor of American Studies in Columbian College, and his wife, **Frances Kennedy**.

“Roger knew that NPS was one of our nation's great educational institutions,” said Frances Kennedy. “Through his leadership as director and through the National Parks Fellowship, NPS educators and Americans who visit the parks will benefit.”

The Friends of Roger Kennedy established the Roger Kennedy National Parks Fellowship to provide tuition support for NPS employees enrolled in the certificate program. Kennedy taught at Columbian College from 1998 to 2003.

“We are thrilled to have a graduate program that extends the remarkable environmental legacy of Roger Kennedy,” said **Tara Wallace**, Columbian College's associate dean for graduate studies. “This program helps further the goals of both GW and NPS and establishes an important relationship between two major institutions in Washington, D.C.”

Program participants are encouraged to tailor courses to fit their skills and strengthen their professional

credentials. Each is required to take a policy course and choose among electives in environmental sciences, history, strategic communications, historic preservation, ethnicity and identity, and preventive conservation concepts.

The certificate partners NPS with Columbian College's Environmental Resource Policy Program (ENRP) directed by **Peter Linquiti**, an expert on policies relating to air quality, climate change, hazardous and solid waste, and new green technologies. He views the new certificate as a way to build on the expertise of NPS managers and others who play a vital role in protecting America's environmental resources.

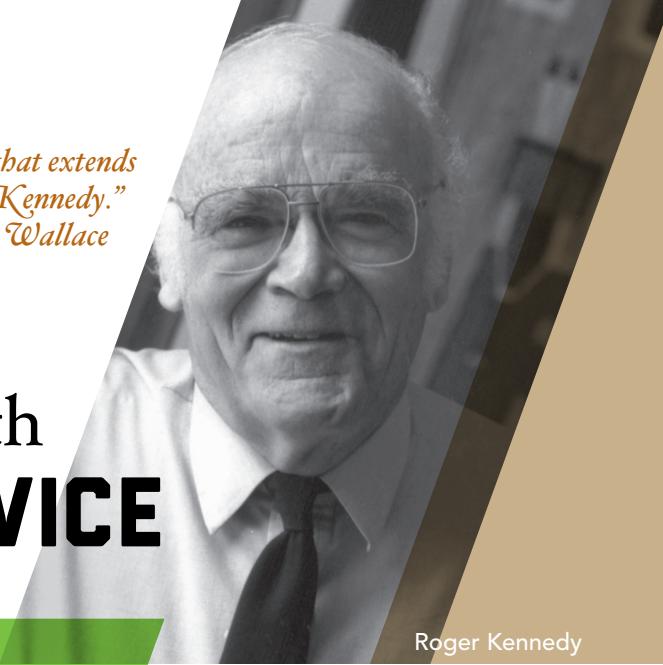
“What's more,” said Linquiti, “as these NPS employees participate in GW classes alongside current ENRP students, they introduce a more practical, field-oriented perspective into course discussions than otherwise might be the case.”

Beyond the obvious mutual benefits for both institutions, Frances Kennedy is proud that her husband's “transformational” leadership continues to play a vital role in environmental responsibility.

“Roger loved our country and was a great citizen,” she said. “The Roger Kennedy Fellowship will help people in the National Park Service to move toward their goal of being fine educators.”

Roger Kennedy

Photography credit: Diana Walker



Milestone: National Council Marks 20 YEARS



Columbian College's National Council

Council Chair Pam Lawrence Discusses Impact and Importance of Giving Back



Pam Lawrence,
BA '76

When Columbian College's National Council for Arts and Sciences celebrated its 20th anniversary this past spring with a dinner at the United States Institute of Peace, President **Steven Knapp** and Provost **Steven Lerman** lauded the council for its commitment and service. The council, composed of alumni, parents, and friends, serves as a volunteer advisory board to the dean of the college. **Pam Lawrence**, BA '76, senior vice president of North Shore Medical Center in Massachusetts and the council chair, recently shared her thoughts on service, philanthropy, and the need to remain engaged in the life of the university.

TELL US ABOUT THE NATIONAL COUNCIL'S IMPACT OVER THE LAST TWO DECADES.

In the early days, the National Council was a way for interested alumni to stay connected or to reconnect with GW and to hear from

the dean and the faculty about activities on campus. In the ensuing years, the dean began soliciting advice from the council on a range of local initiatives and issues affecting higher education in general.

As the group coalesced, the ways that National Council members have engaged with the university have become as diverse as the interests of its members. For example, one member works with the NYC Real Estate and Finance Alliance to mentor GW students and help them network. Another is the honorary producer of multiple student theater programs. Many serve as GW ambassadors, hosting events to connect alumni and donors, and others have been instrumental in securing major philanthropic support for university programs, such as the Solar Institute. The thread that ties us all together is a passion for GW and a desire to support the university, its faculty, and its students.

WHAT DRIVES YOUR COMMITMENT TO COLUMBIAN COLLEGE AND THE UNIVERSITY?

GW was a transformational experience for me personally and professionally. That makes me very loyal, but it also makes me feel responsible for supporting the college and the university so it can provide the same experience for others.

WHERE HAVE YOU CHOSEN TO DIRECT YOUR OWN PHILANTHROPIC SUPPORT AND WHY?

For me, the focus on citizenship, volunteerism, and public service is incredibly significant as it supports values that students carry forward for life. Service learning courses provide a strong academic foundation and also strengthen the ties between the university and the city that is its home. That is why I chose to support the Center for Civic Engagement and Public Service and the Columbian College faculty who teach those courses.

CHANGING LIVES

\$2.5 Million Bequest Will Bolster the Arts at GW

WHY SHOULD ALUMNI GIVE BACK AND REMAIN ACTIVE IN THE UNIVERSITY COMMUNITY?

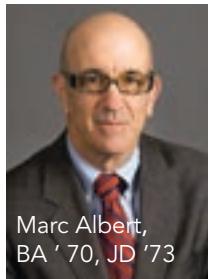
The university is truly a community, and being a part of a community is an essential component of our society. The GW community is incredibly diverse, increasingly robust, and a tremendous resource for new ideas and lifelong learning. The key is to simultaneously take advantage of it and to support and enhance it.

WAS THERE A FAVORITE CLASS, PROFESSOR, OR MENTOR THAT INFLUENCED YOUR LIFE CHOICES?

There were actually two. The first was Professor **Rod French**, who was in charge of a program called Experiential Humanities—the predecessor of today's service learning initiatives. He taught us the importance of engagement with our new urban community and instilled a passion for public service. The second was Professor **John Morgan**, who taught constitutional law in the Political Science Department. I credit him with teaching me to think critically and systemically. As a strategic planner, these are skills I use every day.

YOU HAVE A SUCCESSFUL, VERSATILE CAREER. WHAT ADVICE CAN YOU OFFER STUDENTS AND YOUNG GRADUATES SEEKING PROFESSIONAL SUCCESS?

Study what you are passionate about, but stay open to career opportunities that are relevant and yet different. You graduate with a base of knowledge but, more importantly, with a set of skills that can be applied in many ways and in many settings. And always remember that you build your professional credibility and reputation with each and every daily interaction.



Marc Albert's motto is simple: *Make a difference in others' lives*. On the world stage, his work as an international bankruptcy attorney has seen him participating in USAID projects in Egypt and Albania, interacting with clients at the United Nations, and teaching courses in bankruptcy law to local judges, bankers, and government officials. These experiences have provided a rich perspective on working with other peoples and cultures within a context of creating change.

"I quickly learned that not everything that works in the U.S. is feasible in other parts of the world and that I can learn from professionals in these countries as much as they can learn from me," said Albert. "We can hopefully make a little difference in world politics by getting others to know us and realize we are more similar than not."

Even with that global view, it is on the home front where Albert, BA '70, JD '73, is changing lives most significantly through his philanthropic support. His \$2.5 million bequest to provide an undergraduate scholarship endowment for Columbian College theatre students and endowed funds for the MainStage student production season is a further example of his personal largesse.

"Marc's sincere love of the performing arts as shown through his bequest intention will have a deep impact on our students and our programming for years to come," said **Dana Tai Soon Burgess**, chair of the Department of Theatre and Dance and a world-renowned choreographer. "His support is greatly appreciated."

The planned gift includes a collection of paintings, watercolors, pastels, and pencil and charcoal drawings—as well as textiles, rugs, and furniture—that is earmarked for the new George Washington University Museum. The artwork is part of a collection left to Albert by his late partner **Michael Green**, MFA '76, a former administrator of the Phillips Collection in Washington, D.C.

continued, next page

Changing Lives, continued

"Michael was part of the Washington colorist school and well known and respected by the GW community," said Albert. "When he died in 1987, he left me his art collection, which is extensive. On top of that, we collected works by artists such as Avery and Davis, and I have continued to collect works by other artists."

Albert's contributions to the arts at GW go well beyond philanthropy. In collaboration with Professor of Theatre **Lesley Jacobson**, he served as honorary producer of four MainStage Theatre productions. There may even be an acting role in his future.

"I have engaged in a very terrific relationship with Leslie Jacobson to produce plays at the university," said Albert. "I have attended rehearsals, auditions, and the production meetings and have assisted in marketing the plays to a broader Washington audience. And, yes, there is a chance I might not only produce the next musical Ms. Jacobson directs, but also perform in that production."

Albert's mother Molly, now 90, first ignited his interest in theater. When he was a child, she made sure he had the opportunity to audition for local productions in Philadelphia. For many years she ran a business from Philadelphia, arranging trips to theater performances in New York. She is still active as the leader of a play-reading group.

Beyond his volunteer activities with MainStage Productions, Albert is an emeritus member of Columbian College's National Council for Arts and Sciences and recently served on the Columbian College dean's search committee. He has also been active in mentoring and recruiting students throughout the university.

"GW gave me a great start both professionally and personally," said Albert. "I will always be very grateful. The university has continued to play a part in my life, and I expect it will continue to do so in the future."

Briefs

CLARICE SMITH'S PAINTINGS EXHIBITED AT BRADY GALLERY

Spring season at GW's Luther W. Brady Art Gallery opened with an exhibition of 28 paintings by artist, philanthropist, and Columbian College alumna **Clarice Smith**, BA '76, MA '79. The collection showcased landscapes, floral images, and portraits that captured moments from Smith's life.

"I'm not interested in just painting a pretty flower—I want to invoke a memory or a feeling," said Smith, a faculty member in the Department of Fine Arts and Art History from 1980 to 1987. Smith recently illustrated *American Hero: John Marshall, Chief Justice of the United States*, authored by her son, **David Bruce Smith**, BA '79.

Highlights of the Luther W. Brady Art Gallery exhibit included images of horses, a study of clouds in the western sky, and scenes inspired by Smith's visits to the Isle of Harris in Scotland.



Clarice Smith, BA '76, MA '79



Mark Warner,
BA '77

ALUMNI HOLD POLITICAL CLOUT

Columbian College alumni continue to make their mark in the political arena. In the last election cycle, several were re-elected to Congress, including House Majority Leader **Eric Cantor**, BA '85, from Virginia, and U.S. Rep. **Steve Israel**, BA '81, from New York. In state elections, **Brad Hawkins**, MPA '01, was elected state representative for his district in Washington, and **John "JB" McCuskey**, BA '04, was elected to the West Virginia House of Delegates. Not up for re-election but moving ahead in seniority status is **Mark Warner**, BA '77, now the senior senator from Virginia.

FUNDING ENABLES FOCUS ON GLOBAL FOOD PRODUCTION

The School of Media and Public Affairs, with funding from Land O'Lakes Inc., has launched "Feeding the Planet: Innovations in Food Production." The initiative identifies solutions to problems surrounding food production and nutrition security. Policymakers, experts, and thought leaders will attend events throughout the year to discuss ways to

feed a global population projected to explode to nine billion by 2050. In addition, fellowships are now available to select students for travel internationally to identify and report on stories pertaining to food production. "Feeding the Planet" is an outgrowth



of GW's "Planet Forward" domestic and global sustainability effort, which promotes innovative ideas to address the environmental, energy, and sustainability challenges confronting the planet.

LUTZ'S LIFE INSPIRES HOLLYWOOD FILM

Swiss Consul Carl Lutz, BA '24, will be portrayed in the upcoming Hollywood film "Walking with the Enemy." Nominated three times for the Nobel Peace Prize, Lutz launched one of the largest rescue operations during World War II, saving 62,000 Jews from Nazi death camps. The film focuses on Elek Cohen, who helped Hungarian Jews during the Holocaust. (Through his official status, Lutz was able to protect Cohen during this period.) Lutz served 20 years in various Swiss posts in the United States before

receiving assignments in the Middle East and Eastern Europe. A tree in the Garden of the Righteous of the Holocaust Museum in Los Angeles will be dedicated to Lutz, who died in 1975.

LAB EQUIPMENT BENEFITS BIOLOGY

Students in biology teaching labs will have more opportunities for hands-on learning thanks to \$130,000 worth of lab equipment donated by



Vanda Pharmaceuticals, a local biopharmaceutical company whose CEO, **Mihael Polymeropoulos**, has close ties with the university. Vanda employee **James Pomponio**, BS '10, helped facilitate the donation. "My conviction and commitment to GW go beyond location and extend many years back, as an adjunct faculty [member] of the genetics program and, most recently, with three of my children attending GW as undergrads," said Polymeropoulos. "At Vanda, we look forward to forging a strong relationship with the GW students and faculty for years to come."

NINE COLUMBIAN COLLEGE ALUMNI JOIN GWAA BOARD

This summer, the George Washington Alumni Association added nine Columbian College alumni to its Board of Directors. They are **Martin Baum**, BA '82; **Shannon Cerninaro Doyle**, BA '96; **Brooke DeLancey**, BA '08, MA '10; **Kristine Esposito**, BA '07; **Tim Gowa**, BA '10; **Jennifer Leighton-Guzman**, BA '06; **Priscilla Monico**, BA '07; **Courtney Tallman Thorne**, BA

'05, MPA '07; and **Marilyn Yakowitz**, MA '74, PhD '80. The new members-at-large work with other volunteers from across GW to engage alumni in the life of the university and implement new alumni programs and services.

There are now 27 Columbian College alumni board members, including board President **Steve Frenkil**, BA '74, and Columbian College representative **Scott Dantley**, BA '92. Each GW school has one appointed representative.

STAY CONNECTED!

Alumni are an important part of the Columbian College and GW communities.

Don't miss out on:

Invitations to professorial lectures, the Culture Buffs series, networking nights, and more;

Exclusive benefits available to Columbian College alumni, such as the alumni travel and course audit programs;

Special announcements from Columbian College and your department;

Alumni networking and connecting opportunities through the Columbian College; and

Alumni Association LinkedIn groups, Facebook, and Twitter.

Visit alumni.gwu.edu for details about special alumni programs and events and remember to update your contact information at alumni.gwu.edu/update.

HONOR ROLL *of* DONORS

FISCAL YEAR 2013
(JULY 1, 2012–JUNE 30, 2013)

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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.

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1821 BENEFACTORS

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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. Grandfathered members with lifetime giving over \$100,000 are included.

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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 to the university.

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Luther Rice raised the necessary funding and lobbied President James Monroe and Congress to make George Washington's vision of a university in the heart of our nation's capital a reality. Now, nearly 200 years later, Luther Rice Society members are continuing the legacy and advancing The George Washington University and the Columbian College as a premier place of learning and a distinguished community of global leaders.

The Luther Rice Society is comprised of individuals who contribute leadership annual gifts of \$1,000 or more, (\$250+ for graduates between 0-5 years and \$500+ for graduates between 6-9 years), and students who contribute \$75 or more each fiscal year between July 1 and June 30.

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Carolyn A. Eldred+	Janet M. Von Doenhoff+	Terrence L. Lisbeth	Terrence L. Lisbeth	Apostolos-Cappadona		
Rosemary English+	Karen E. Wilcock	Elizabeth St. J. Loker+	Elizabeth St. J. Loker+	Frances P. Aschheim		
Elaine O. Feidelman+	William R. Yelen	Elizabeth B. Love	Elizabeth B. Love	John R. Bacon		
Michael B. Fingerhut+	Mahmoud A. Zawawi	Liddell L. Madden	Liddell L. Madden	Daryl P. Beabeau		
Jack M. Firestone+	Linda L. Ziglar+	Kenneth A.	Kenneth A.	Gloria C. Becker+		
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1970						
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		Diane P.	Diane P.	Julie M. Misegades		
		Apostolos-Cappadona	Apostolos-Cappadona	Donald E. Lucas		
		Frances P. Aschheim	Frances P. Aschheim	Gerald W. Lunt		
		John R. Bacon	John R. Bacon	Rita H. McMahon*		
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		Herbert L. Bilsky	Herbert L. Bilsky	Gerald W. Lunt		
		Carol K. Block	Carol K. Block	Rita H. McMahon*		
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		Anne Brewer+	Anne Brewer+	Julie M. Misegades		
		Scott W. Brinckerhoff	Scott W. Brinckerhoff	Diana R. Molinari		
		John R. Broadway, Jr.	John R. Broadway, Jr.	Mary H. Moltz+		
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				Patricia L. Nietfeld		
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1971						
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		Karen K. Berger+	Karen K. Berger+	Laurel R. Bergold+		
		Laurel R. Bergold+	Laurel R. Bergold+	Jane E. Berman		
		Jane E. Berman	Jane E. Berman	Steven G.		
		Marilyn S. Nyman	Marilyn S. Nyman	Bernstein, M.D.+		
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		Annette C. Osso	Annette C. Osso	Sherrie T. Black		
		Wayne L. Paige	Wayne L. Paige	Rita C. Bleier		
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		Frederick J. Scheuren+	Frederick J. Scheuren+	Clain-Stefanelli		
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Tod W. Burke	Lynn P. Parker	Edgar A. Peden+	Motsumi Moja+	Maria M. Peznola-Reed	Blaire L. Osborn+	
Jacqueline L. Byrd	Michelle L. Rice	Michelle L. Rice	Paul W. Oshel+	Michele L. Poynton-Marsh	Helen T. Palmer	
Donald H. Chace	Karen S. Richardson	Kelly L. Ritchie	Kelly L. Ritchie	Amy Robards	Ellen L. Parkhurst+	
Wayne A. Cimons	Tracie B. Ward	Louis P. Rizzo	Louis P. Rizzo	Pasquale J. Rocco+	Charles W. Pearson	
Michael E. Cohen	Jeanette S. Ridge+	Donna S. Ronsaville+	Sharyn H. Rosenblum+	David E. Russell	Peter N. Peterson	

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Joseph J. Pfanzelter+		Mary A. Zoellner	W. Scott Allen	Joseph J. Zelinka+	Amanda M. Fugazy	Hazel G. LaNasa+
Ronald P. Regulski		1992	Jerry L. Archer+	Katherine E. Beery	Tanya S. Ghatan	Linda Makings
Carol R. Sacks+		Khela C. Thorne	Marc B. Bailkin+	Benjamin C. Adams	Elizabeth M. Ginexi	Mary Ann Marchowsky+
James D. Sadowski		Patrick L. Troppe	Michael L. Adler+	Rachel Berman	Constance J. Glover	Elizabeth C. Matto+
Sandra M. Singer		Patricia A. Troppe	John L. Bailey	Steven D. Adrian	Dawn E. Gundersen	Ward W. McIntyre
Michele G. Sloane		Dante A. Verme+	Mark G. Barry	Jennifer G. Barbour	Frederick R. Hoeschler	Beth M. McNaughton
Virginia M. Smart		Jennifer L. Wagner	Joseph S. Berney	Adam S. Barker	Lisa A. Hoston	Matthew D. Moore
Ronnie G. Smith		Adam J. Weisler	Lauren C. Brobson	Richard W. Burris	Ryan D. Israel+	Scott M. Mory+
Gregory C. Spengler+		Carolyn A. Wilson+	Leslie B. Burk+	Kathleen M. Burger	Melissa Kansa	William D. Mueller
Amy W.F. Taxay+		Frank M. Wroblewski	Patricia M. Carter	Jenny A. Burkholder	Marie E. Lambremont+	Khuong Mulvaney
Bryan N. Tramont+		1991	Gail E. Collins	Kendra A. Cipollini	Elizabeth L. Lawson+	Michele C. O'Connell
Anita H. Tuchrello+		Thomas C. Adams, III+	Zena L. Cook	Fred J. Donodeo	Leonard D. Lazarus+	Christopher E. O'Connor
Peri C. Ulrey		Pamela A. Adams	Andrew S. Corr	Kathleen A. Donodeo	Kathryn E. Liburdi	Blaire L. Osborn+
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Karin S. Wendzel		Paul D. Bourquin	John A. Creech+	Amanda P. Feinsod+	Daniel McCuaig	Genyong Peng+
Ingrid Wicker-McCree		Scott H. Braunstein	Scott J. Dantley	Michael R. Feinsod+	Judith E. McLean	Alexander B. Ragone
Owen N. Wild		Marjorie J. Buergenthal+	Liesl D. Dees	Barbara C. Fertig	Bruce J. Gruenewald	Jodi L. Scheer
1990		Marco T. Cisneros+	Andrew L. Dixon, III+	Matthew G. Fetchko	Stuart L. Harshbarger+	Nancy E. Schlatter
Clay C. Aldrich		Christine A. Coleman	Dana C. Dobson	Erick L. Fish	Mickey J. Hayward+	Tatyana S. Schriempf+
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Vera D. Harvell		Julie A. Jampolis	Beth C. Kimmerling+	Stewart P. Kerr	Neil B. Stekloff	
John Holder+		Vicky L. Jefferis	Aaron R. Kwittken	Jill E. Koelbl	Keri L. Trolson+	
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Myra F. Joy+		Salvatore J. Lucido	Walter S. Nagurny	Steven W. Lindner	Arthur F. Young-Wick+	
Robert K. Kearney+		Jill P. Madenberg	William M. Newell	Adam H. Marks	Jianqiang Zhu	
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Anne S. Lindblad+		Merrily A. McGowan+	William D. Orthwein, IV+	Vollie D. Nelson+	Ahmad A. Al Aseeri	
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Sejal G. Mattu		Kenneth L. O'Bannon	Nolan D. Schmidt	Sandra O. Otto	Susan L. Boucher	
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Erik K. Olstein		Lisa M. Rasmussen	Melissa S. Toms	Nolan D. Schmidt	Lee W. Deutsch	
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Heather P. Robinson		Michael P. Rolfe	Carolyn J. Winje+	John D. Sherwood	Mark J. Elman+	
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Hassan Sedaghat		Christopher Sporon		Jonathan D. Tarnow+	Charles G. Fogelgren	
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		Richard L. Weitz			Nancy E. Gwinn	
					Deborah L. Huang	
					Amy E. Hummel Corbin	

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Jennifer L. Stewart	Marnie A. Suss	Daniel K. Barrow	Kieara S. Garnett	Bradley H. Dlatt	Amanda A. Castroverde
Courtney T. Thorne	Robert A. Tanen	Daniel A. Broxterman	Adam H. Goldberg	Logan C. Dobson	Hyun Jeung Cheong
Deborah O. Tisdale	Patricia A. Troppé	Nicole M. Capp	Ilana R. Goldfus	Amy K. D'Onofrio	Edward B. Costigan
Melinda L. Tracy	Alexandra S. Tuffuor	Heather E. Childress	Timothy M. Gowa	Theresa K. Dussault	Megan E. Davison
Yao P. Tyus+	Ariel E. Wade	Fadesola A. Adetosoye	Andrew W. Granucci	Lori L. Eggleston	Sumona B. De Graaf
Taryn A. Washkowitz+	Christian A. Washington+	Joseph A. Altenau+	Caitlin A. Craumer	Lauren S. Enlow	Thomas H. deVries
Gina Wasserman	Ashley O. Westby	Christine L. Bennett	Cara T. Dolak	Bonnie J. Epstein	Brittany L. Dibble
Steven J. Weissbart	Meredith L. Wiedeman	Emily M. Blair	David J. Green	Estelle A. Faulkner	Bradley H. Dlatt
Valentine N. Wolly	Cori B. Wilf	Bogdan L. Bonca	Jacqueline E. Hackett	Douglas C. Frechting+	Hilah K. Evrony
2008					
Jennifer L. Stewart	Marnie A. Suss	Marcy L. Chokshi	BinJin Hwang	Lauren S. French	Jeffrey D. Farber
Courtney T. Thorne	Robert A. Tanen	Joseph A. Altenau+	Emily K. Grebenstein	Mary Faye Fullam	Jessica R. Fern
Deborah O. Tisdale	Patricia A. Troppé	Christine L. Bennett	David J. Green	Kieara S. Garnett	Alexandria C. Flatter
Melinda L. Tracy	Alexandra S. Tuffuor	Emily M. Blair	Jacqueline E. Hackett	Miranda C. Gendel	Melony E. Frazier
Yao P. Tyus+	Ariel E. Wade	Bogdan L. Bonca	BinJin Hwang	Joseph A. Goldman	Christopher C. Fritz+
Taryn A. Washkowitz+	Christian A. Washington+	Marcy L. Chokshi	Benjamin H. Hyman	Sarah E. Griswold	Jorge A. Gadala-Maria
Gina Wasserman	Ashley O. Westby	Joseph A. Altenau+	Evan M. Faber	Kara N. Hershorn	Arielle R. Gajer
Steven J. Weissbart	Meredith L. Wiedeman	Christine L. Bennett	Ann O. Finch	Michael R. Komo	Gretchen M. Gasteier
Valentine N. Wolly	Cori B. Wilf	Emily M. Blair	Deborah L. Friedman	Jeffrey N. Lamoureux	Meredith E. Giantsos
2006					
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de Tuazon	Morgan P. Corr	Daniel H. Else, III	Chloe A. Mayer	Ashley A. McDaniel	Rebecca Z. Kahn-Witman
Bogdan L. Bonca	Kathleen A. Coulombe	Laura E. Ewald Ours	Jennie C. Meade, Esq.	Lauren A. Kalina	Lauren A. Kalina
Dany BouRaad	Alyiah S. Cromwell	Alexander J. Funk	Kathleen E. Miles	Chrishon A. McManus	Lara C. Kanitra
Christopher J. Bright	John H. Davis	John E. Galmiche, IV	Zachary R. Miller	Gregory J. McWhir	Meghan E. Kearns
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Christopher M. Bruno	Samantha J. Dworken	Jacqueline E. Hackett	Timothy C. Murphy	Kassandra M. Moultrie	Eric C. Litmer
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Katherine M. Fischer	Andrew D. Graepel	Michael G. McDonough	Joseph J. Radosevich	Christina G. Revenis	Matthew M. McCreary
David J. Frenkil	Katherine C. Griffith	Megan C. McHugh	Ashley V. Randall	William B. Ricketson	Kristen D. Mendoza
Kara M. Fukumoto	Nicholas A. Haas	Luke R. Moses	Nicole P. Rappaport+	Claire E. Rose	Rebecca A. Naeder
Rachel K. Fyall	James E. Hess	Molly K. Nelson+	Hillary M. Richards	Gabrielle J. Russell	Courtney N. Oddman
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Gisela M. Garcia	Laura M. Kahle+	Ana O. Ottman	Jaime I. Rose	Drew L. Williams	Dylan F. Pyne
Matthew D. Gillmor	Garrett M. Kephart+	Timothy P. Polko+	Michael D. Sansone	Michael S. Wolfe	Kimia Ramezani
Jason F. Goldberg	Rabia M. Khan	Michael E. Riccio	Jeremy S. Sapriel	Brittney A. Wright	Erika N. Renson
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Matthew T. Grieger	Jamie L. Lindsay	Stephen J. Roche	Jasmine Smith	Matthew J. Swain	Allison N. Rohde
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Tiffany J. Haas	Tzviah B. Mayman+	Margaret D. Sacks	Madeline J. Spado+	Laura E. Terstappen	Joseph D. Sangiorgio
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Durriyyah R. Johnson	Melissa F. McShea	Timothy D. Shea	Julie E. Stofer	Taylor E. Tibbets	Rebecca A. Naeder
Shaida S. Johnston	Emanuel Mkrtchian	Jacob S. Sherman	Mark T. Tripputi	Catherine J. Toor	Courtney N. Oddman
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Caiyi Lang	Kelly A. O'Brien	Justin B. Slotnick	Michael E. Weissberg	Elizabeth G. Barnett	Dylan F. Pyne
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2009					
Jennifer L. Stewart	Marnie A. Suss	Marcy L. Chokshi	Hilah K. Evrony	Monique P. Blount	Kathryn M. Suarez-Quijano
Courtney T. Thorne	Robert A. Tanen	Joseph A. Altenau+	Emily Cahn	Brian P. Tabit	Elaine M. Till
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Yao P. Tyus+	Ariel E. Wade	Bogdan L. Bonca	Gabrielle K. Ciarcia	Hannah E. Spangler	Kelsi E. Browning
Taryn A. Washkowitz+	Christian A. Washington+	Marcy L. Chokshi	Nathaniel P. Clough	Kathleen M. Suarez-Quijano	Amanda A. Castroverde
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Valentine N. Wolly	Cori B. Wilf	Emily M. Blair	Erin M. Delker	Deborah L. Trent+	Megan E. Davison

Justin R. Woods	Sinead E. Casey	Joanna S. Falk	Elizabeth M. Henriksson	Mallory J. Levy	Julia Navarro	Sylvia A. Rzepniewski
Colin M. York	Diana M. Cavenagh	Hardy Farrow	Deonee S. High	Tianying Li	David M. Neary	Julian A. Saccia-Schaeffer
2013	Adam S. Cella	Jhila K. Farzaneh	Jordan V. Hill	Pengli Li	Brandon D. Neuman	Sean S. Sachdev
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Nicole S. Alesio	Hernan A. Chiriboga Novillo	Nicollette M. Fernandez	Evan P. Honor	Elizabeth I. LoGalbo	Keith S. Osentoski	Dustin A. Schaefer
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Margaret R. Ardery	Johee G. Chung	Luke W. Fey	Shirley Hsuan Hsieh	Karina M. Loor	Aglaja Ovtchinnikova	Peter E. Schlosser
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Christina N. Arvanites	Elizabeth S. Cohen	Caitlin L. Figg	Richard G. Ingebretsen	Lokyee Lori Lui	Rachel J. Palacios	Casey M. Schreiber
Shelbie B. Atkins	Douglas M. Cohen	Eugenia M. Finizio	Hannah R. Jacobs	Yael D. Lukin	Julian M. Panero	Rachel A. Schroeder
Arjun Awasthi	Justin M. Fink	Justin M. Fink	Runala S. Jaglal	Bridgett P. Lynn	Lori A. Panosyan	Andrew M. Schumacher
Ariel J. Bachar	Kristina M. Cole	Thomas C. Flowers	Nimisha Jain	Kaiya A. Lyons	Isabel Parilis	Michael J. Schumpp
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Sarah R. Barrie	Krista L. Connally	Matthew R. Freeman	Yoo S. Jeong	Nigel I. Madden	Gabriella L. Patruno	Caleb N. Seavey
Jennifer F. Beatty	Dustin R. Cooper	Austin L. Frizzell	Paige E. Johnson	Brendan J. Mahoney	Alejandro M. Peralta	Benjamin D. Seifer
Aviv Becher	Christopher S. Cordero	Danielle Gabriel	Noor K. Kalkat	Manuel Ignacio	Sarah J. Perillo	Rhys D. Seiffe
Timothy J. Beggs	Joseph A. Cordi, Jr.	Conor J. Gaffney	Paulina A. Kanakos	Malo Marchan	Dana A. Perim	Magnolia R. Sexton
Chelsea R. Benjamin	Victoria A. Costa	Jennifer L. Gal	Francis J. Kane, Jr.	Joseph V. Maniscalco	Sarah A. Perkins	Melisa Seyhun
Valerie B. Berg	Paula A. Costa	Eric B. Gallager	Ellen J. Kaplan	Tarek R. Mansour	Logan C. Pernikoff	Alexandra A. Shaffer
Abby S. Bergren	Analisa M. Cotter	Amanda M. Galonek	Andrea E. Karikas	Katherine M. Marchione	Christine Bao	Amiel Shah
Adam B. Bethke	Clarissa M. Coultas	Brittany L. Garcia	Aliya Karim	Alex Y. Markoff	Chau Pham	Rachel S. Shapiro
Michelle L. Betz	John F. Creamer	Michael S. Garry	Arielle H. Katcher	Hyacinth L. Mascarenhas	Benjamin L. Pincus	Lauren R. Shenfeld
Krisna R. Bharvani	Margaret R. Creech	Ernest G. Gaudio	Tanveer I. Kathawalla	Spencer A. Mathews	Alex G. Pisciarino	Rachel M. Sher
Paul J. Biba	Meredith L. Crimmins	Kyra A. Gembka	Lauren E. Katz	Ethan L. Matz	Rachel E. Platner	Phebean W. Sheriff
Isabella K. Black	Isabelle C. Crowther	Christopher M. Genovese	Michael B. Katz	Kayla E. McAlindin	Ashrithpal Police-Reddy	Samuel A. Sherman
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in remembrance

We note with regret the passing of the following members of the Columbian College community:

Otto Bergmann, a professor of physics at GW from 1962 until his retirement in 1998, contributed to many areas of physics through his theoretical work and was dedicated to educating students about the broad philosophical and historical underpinnings of the field. He served in the Faculty Senate and published numerous articles on particle physics, special and general relativity, plasma physics, and material science. In 1998, he became a professor emeritus.

Lloyd Elliott, GW president from 1965 to 1988, is remembered as a gracious and unassuming leader who consistently put students' best interests above all else. During his tenure, he helped transform the university from a "commuter" school into a respected residential academic institution. Other achievements include building the university's endowment from \$8 million to \$200 million, overseeing the addition of three libraries on the Foggy Bottom campus, and strengthening the study of world affairs at the university.

Elissa Froman, BA '06, who graduated with a degree in Judaic and women's studies, earned a national reputation as a social justice hero and political activist representing Jewish communities in Washington, D.C. She was a congressional lobbyist for the National Council of Jewish Women and, as a student, was an active member of GW Hillel. Froman was passionate about civil liberties, the separation of religion and government, D.C. state rights, and social justice.

James H. Hansell was a professor, deputy director of professional psychology, and a director of clinical training at GW. Certified by the American Psychoanalytic Association in Psychoanalysis, his many writings include a text on abnormal psychology. He is remembered for

bringing a keen appreciation of the richness and complexity of the human mind to his research and clinical work, and for being unfailingly supportive of his graduate students.

Robert G. Jones, professor emeritus of religion, taught at GW from 1959 to 1991. As chair of the Department of Religion from 1963 to 1979, he was a generous mentor to new faculty members and presided over the expansion of the department to include courses in most of the world's religions. Jones also served as university marshal for 20 years.

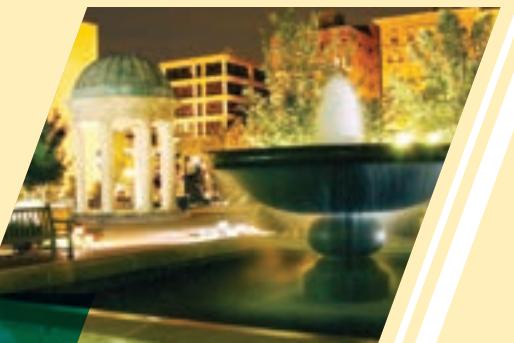
Eugene Lambert, AA '55, BA '57, a pioneering food and drug lawyer, was a leader in his field. A generous philanthropic supporter of GW and dedicated volunteer, he served as chair of the Heritage Society, president of the GW Alumni Association, and founding and emeritus member of Columbian College's National Council for the Arts and Sciences. Lambert also was a GW alumnus trustee from 2000 to 2006 and became an emeritus trustee in 2007. He received the Alumni Outstanding Service Award in 1999.

William Pucilowsky, associate professor of theater, was a member of the Department of Theatre and Dance for 34 years. During his tenure, he developed and taught design courses and, for six years, served as producer of the department's six-production MainStage Season. Pucilowsky was a dedicated adviser and mentor to students, both during their time at GW and long after their graduations. Between 1980 and 2003, he also enjoyed an active career as a costume designer in D.C.'s professional theater community.

Arthur Hall Smith, MFA '79, was a professor emeritus of painting, having joined the faculty in 1974 following service as a curatorial assistant at the Phillips Collection. Smith's commissions include the Centennial Murals at Illinois Wesleyan University and the Mural of Mammals in the Smithsonian's National Museum of Natural History. The Corcoran Gallery of Art held a 10-year retrospective of his work in 1961.

Henry Solomon was dean of graduate studies at Columbian College from 1974 to 1990 and a former chair of the Department of Economics. Solomon began his teaching career at GW in 1956, progressing to full professor of mathematical economics and micro-economic theory. He is noted for research on the application of mathematical programming techniques to production processes. His tenure as the graduate dean was marked by an increase in both the quantity and quality of graduate programs.

Harry E. Yeide, professor emeritus of religion and an assistant dean of Columbian College from 1967 to 1979, helped found the college's Peace Studies Program. He received a Trachtenberg Prize for Teaching in 1997 and another for University Service in 2007. Yeide joined the Department of Religion in 1963, serving as its chair from 1979 to 1991 and again from 1993 to 1997. His research focused on bioethics, peace-making, and other ethical issues.

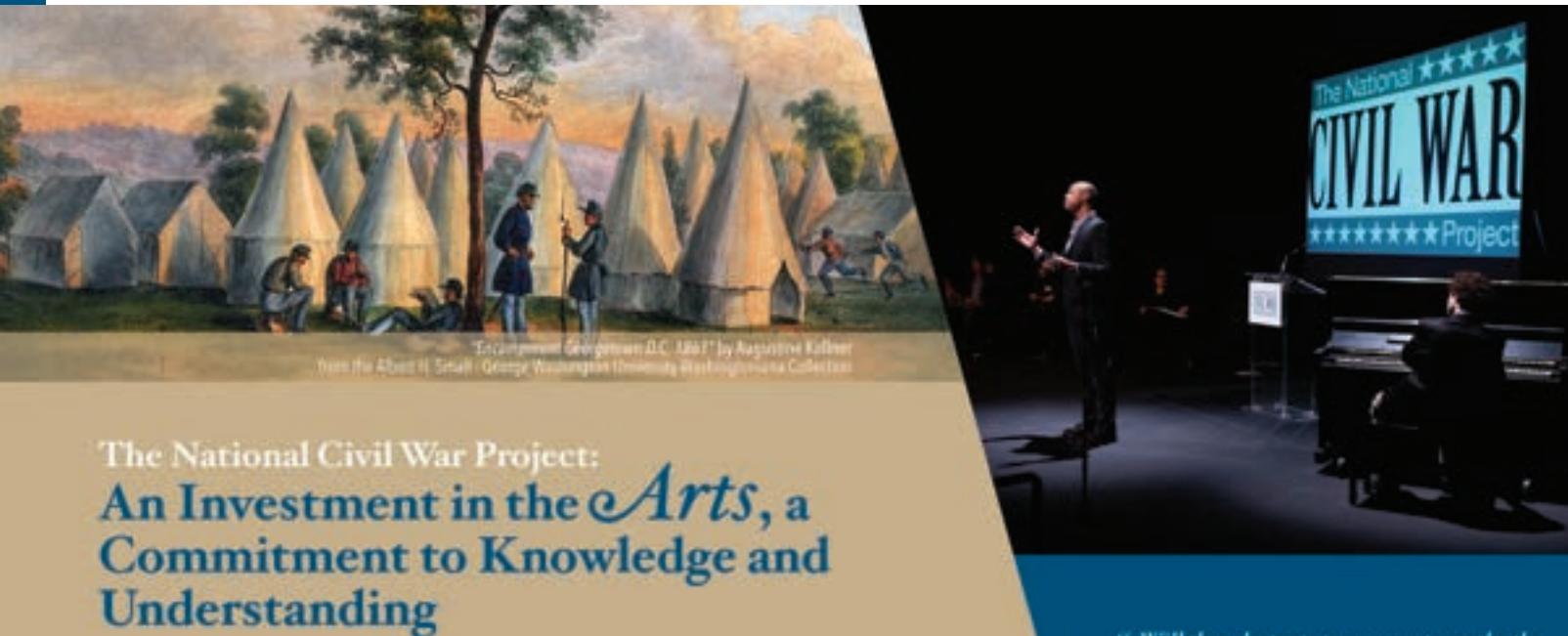




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The National Civil War Project:
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"Will there be poets tomorrow to soothe the minds, artists whose canvases capture the beauty and nuance of the human spirit, or novelists who enrich and excite our imagination?"

Ron Pump (dec. 2010)
Alumnus and Philanthropist