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As of June 30, 2017, thanks to the extraordinary generosity of our alumni, friends, faculty, and staff, *Leading Together: The Campaign for Washington University* has reached a total of \$2.62 billion, with \$456.8 million designated to scholarships and fellowships.

As of June 30, 2017, thanks to the extraordinary generosity of our alumni, friends, faculty, and staff, *Leading Together: The Campaign for Washington University* has reached a total of \$2.62 billion, with \$456 million designated to scholarships and fellowships. Though there is still much to be done, the impact of *Leading Together* is tangible across the university. Construction of new facilities to enhance teaching, research, service, and patient care is underway on the Danforth Campus and at the School of Medicine. Endowed professorships are allowing us to attract and retain exceptional faculty. The incoming first-year class, 1,776 new students drawn from a field of 29,197 applicants, was the largest in Washington University history, and 123 were the first in their families to attend college. About 13 percent of the class is from families with high financial need.

Three schools celebrated historic milestones this year. The School of Law commemorated its first 150 years by launching a year of events on campus and across the country. The Olin Business School marked 100 years of excellence in business education using the theme "Our History. Our Future." and concluded with "Olin's Party of the Century" on April 21, 2017. The Sam Fox School of Design & Visual Arts celebrated the 10th anniversary of the school's founding with a gala event on September 9, 2016.

Driving Discovery, an ambitious Arts & Sciences effort designed to transform teaching, research, and facilities and usher in a new era of scientific discovery, is underway. Through this initiative, we strive to create an interconnected community of scientists and students working in state-of-the-art facilities that will empower research across disciplinary boundaries.

At the School of Medicine and elsewhere, research into personalized medicine has captured the medical world's imagination by offering possibilities for treatment and prevention based on patients' own genes. With its unparalleled tools and expertise, the School of Medicine is poised to be a global leader in this revolution. Our Personalized Medicine Initiative brings together resources and intellectual horsepower from every basic and clinical scientific discipline. The initiative aims to dramatically accelerate the timeline for customized, affordable disease prevention and treatment.

The Alvin J. Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine has expanded services in patient care and public health through a new outpatient facility in north St. Louis County and an expanded facility in St. Charles County. There are now five Siteman Cancer Center locations, and Siteman treats the third-largest number of cancer patients in the country. Siteman also launched the Siteman Cancer Network, a new affiliation with regional medical centers.

Washington University played a prominent role in the national political conversation when it hosted a presidential debate between Hillary Clinton and Donald Trump on October 9, 2016. Since 1992, the Commission on Presidential Debates has selected Washington University as a host site for five presidential debates (the 1996 debate was canceled two weeks prior) and one vice presidential debate — more debates than any other institution in history.

The university's student-athletes enjoyed great success in the past year, including three NCAA Division III national championships — in women's soccer, women's indoor track and field, and women's outdoor track and field. We wrapped up our record-breaking season by finishing second in the 2016–17 Division III Learfield Directors' Cup standings.

Fellows and alumni of the Chancellor's Graduate Fellowship Program gathered at Washington University October 13–15, 2016, for an annual conference and reunion to celebrate the program's 25th anniversary. Founded to encourage graduate students of color to become college professors, the program has broadened criteria for admission to include students from lower socioeconomic backgrounds and those who are the first in their family to go to college.

Outstanding students are drawn to Washington University, in great part, because of the quality of our academic and administrative leadership. We celebrate the arrival of the following new leaders:

Mark Taylor became dean of Olin Business School and professor of finance on December 1, 2016. Previously he was dean of Warwick Business School in the United Kingdom and professor of international finance at the University of Warwick. Taylor succeeds Mahendra R. Gupta, the Geraldine J. and Robert L. Virgil Professor of Accounting and Management.

Denise Stephens was announced as vice provost and university librarian. As such, she manages University Libraries' nine locations and the construction of the reimagined John M. Olin Library, slated to debut in spring 2018. She came to St. Louis from the University of California, Santa Barbara, where she was the university librarian. Stephens succeeds Jeffrey G. Trzeciak, who left the university in July 2016.

Anthony J. Azama was appointed the John M. Schael Director of Athletics. He came to the university after spending two years as the senior associate athletics director for external operations at Columbia University in New York. A graduate of Vanderbilt University, Azama was a three-year letterwinner on the Commodore football team.

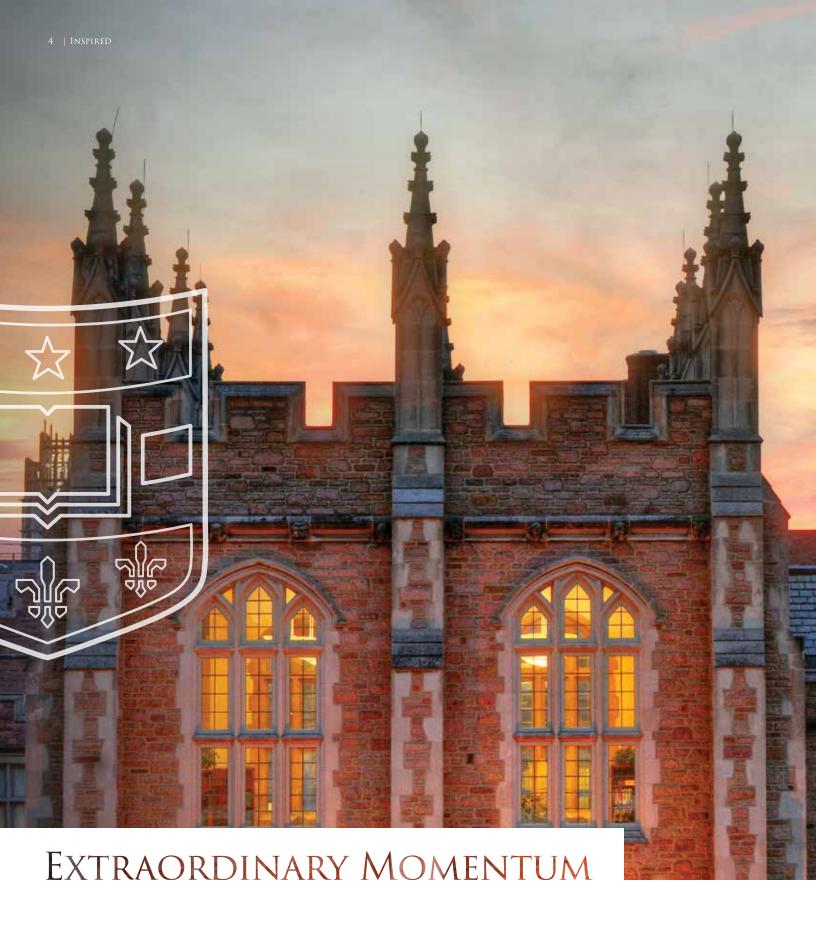
Accomplishments from this year mark progress toward the fundamental goal of making contributions of lasting benefit to our students and our society.

As a global leader, Washington University is preparing its graduates to ignite new efforts to make our society better by advancing human health; striving for social justice; building economic prosperity; providing energy for all while preserving our environment; creating music, literature, and art; and designing the built world. We can do it together.

Craig D. Schnuck
Chair, Board of Trustees

Mark A. Wrighton

Mark S. Wrighton Chancellor





CAMPAIGN

Leading Together: Extraordinary Momentum

In the penultimate year for the campaign, Washington University reached new heights of support and impact.

Together, we are making history.

As of June 30, 2017, more than 146,000 alumni, parents, friends, faculty, and staff have committed a total of \$2.62 billion to *Leading Together: The Campaign for Washington University,* including \$456.8 million for new scholarships and fellowships. The generosity of our community is an inspiration, as is the leadership of our campaign volunteers, and I thank them all.

For 2016–17, gifts totaled \$283.3 million — a new university record. Other records for the year include 64,818 donors, 32,399 alumni donors, \$368.4 million in new commitments and gifts (including bequests), and \$29.3 million in support for the Annual Fund.

It would be difficult to overstate the impact of such unprecedented support. Together, our community of donors advance life-saving research and significant scholarship. They open doors of opportunity for tomorrow's leaders. They foster innovation and entrepreneurship to address the great problems of today and tomorrow. They enable Washington University to enhance the quality of life for countless people in our region and around the world.

We have now entered the final year of the campaign. Our momentum is swift and our progress is extraordinary — but the need is still great. By giving so generously of its time, talent, and treasure, our community has created the opportunity to usher in a new era of excellence for the university. I know that together, we will seize that opportunity and make history.



Andrew C. Taylor, Life Trustee Executive Chairman, Enterprise Holdings Chair, Leading Together: The Campaign for Washington University

CAMPAIGN

LEADERSHIP GIFTS PROVIDE CRITICAL RESOURCES — AND INSPIRATION

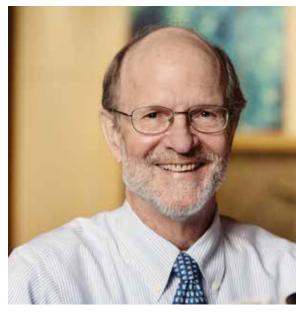
More than 146,000 dedicated Washington University alumni, parents, friends, faculty, and staff have participated in Leading Together: The Campaign for Washington University since the initiative began in March 2009. Their generosity is having a transformative impact on the university today — and building a strong foundation for the future. Following are highlights of extraordinary gifts and commitments received over the past year.

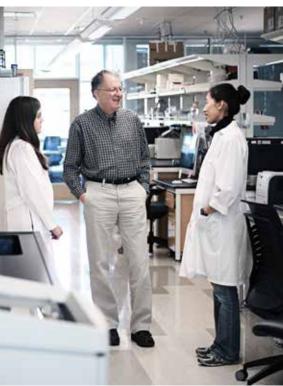
MCDONNELL INSPIRES OTHERS TO SUPPORT SCHOLARSHIPS

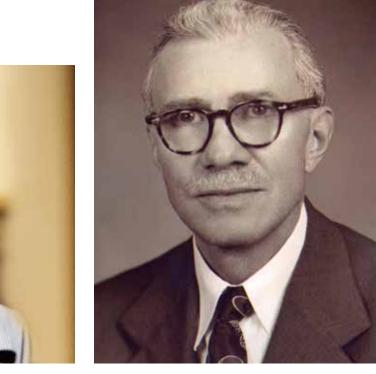
Life Trustee John F. McDonnell committed \$20 million — one of the largest single scholarship gifts in university history — to help future students achieve the dream of a Washington University education. The McDonnell Scholarship Challenge matched all new or increased gifts and commitments for scholarships and fellowships for undergraduate, graduate, and professional students received by June 30, 2018 and pledges paid through June 30, 2023. Increasing resources for scholarships and fellowships is one of the most important priorities of Leading Together. Support from the McDonnell Challenge is helping to make Washington University accessible and affordable for talented students from all backgrounds.

EDISON FAMILY SERVES AS CATALYST FOR PERSONALIZED MEDICINE INITIATIVE

A St. Louis family with a long history of investing in the School of Medicine contributed \$10 million to Washington University to enhance investigators' efforts to translate genetic data into clinically relevant research that improves human health. This gift from the Edison family through the Harry Edison Foundation created the Edison Family Fund to support the Center for Genome Sciences & Systems Biology and the work of its director, Jeffrey Gordon, MD, the Dr. Robert J. Glaser Distinguished University Professor. It will empower a new generation of scientists to combat illnesses that affect millions.







POOLE NAMES OPHTHALMOLOGY DEPARTMENT FOR HER FATHER, A PIONEERING GLAUCOMA RESEARCHER

St. Louis ophthalmologist and educator John Hardesty, MD, (1887–1953) was a war hero in World War I and a physician who helped to pioneer treatments for glaucoma, provided free care to those in need, and advocated for laws to benefit the blind. His daughter, Jane Hardesty Poole, AB '61, committed \$10 million to the Department of Ophthalmology and Visual Sciences at Washington University School of Medicine to honor her father's memory and his legacy of service to his profession and society. In recognition, the department will be renamed the John F. Hardesty, MD, Department of Ophthalmology and Visual Sciences.



(Left to Right) Aaron Bobick, Dean, School of Engineering & Applied Science and James M. McKelvey Professor; Udit Batra, CEO, MilliporeSigma and Member of Executive Board, Merck KGaA, Darmstadt, Germany; Chancellor Mark S. Wrighton; and Jennifer K. Lodge, Vice Chancellor for Research

MILLIPORESIGMA GIFTS BENEFIT ARTS & SCIENCES, ENGINEERING & APPLIED SCIENCE, AND MEDICINE

For more than 70 years, Washington University has benefited from a strong partnership with MilliporeSigma, the life science business of Merck KGaA, Darmstadt, Germany. In 2016, MilliporeSigma made a significant in-kind donation to Washington University. Supplies, equipment, and materials from MilliporeSigma are benefiting researchers in departments in Arts & Sciences, the School of Engineering & Applied Science, and the School of Medicine. To recognize MilliporeSigma and Merck KGaA's critical investment, Washington University has named the second floor of Stephen F. & Camilla T. Brauer Hall in the engineering school the MilliporeSigma Floor.

CAMPAIGN

COUCHES NAME SCHOOL OF MEDICINE RESEARCH BUILDING

Former Trustee George W. Couch III and his wife, Debra Couch, have made a \$10 million commitment to support personalized medicine at the School of Medicine. In recognition of the Couches' generosity, the university has named the new research building at 4515 McKinley Avenue the Debra and George Couch III Biomedical Research Building. The Couches' gift will establish an endowed fund that initially will support the Genome Engineering and Induced Pluripotent Stem Cell Center (GEiC), led by Jeffrey Milbrandt, MD '78, the James S. McDonnell Professor of Genetics and chair of the Department of Genetics.



Leading patrons of cultural and educational institutions in St. Louis and beyond, Michael and Noémi Neidorff, along with the Centene Charitable Foundation, made a \$5 million commitment to endow the Neidorff Family and Centene Corporation Deanship at Washington University's Brown School. Michael Neidorff is chief executive officer of Centene, a managed-care provider. Centene is a Fortune 500 company, a diversified, multinational health care enterprise with more than 12 million members in 28 states. The first Neidorff Family and Centene Corporation Dean is Mary McKernan McKay, a distinguished academic leader and scholar in social work and public health, who joined Washington University in July 2016.

MCKELVEY ENGINEERING BUILDING HONORS FORMER DEAN

Part of the East End Transformation

For more than 70 years, the family of School of Engineering & Applied Science Dean Emeritus James McKelvey Sr., MS '47, PhD '50, has been entwined with Washington University. Now, thanks to a gift from his son, the McKelvey name will live on at the university. Jim McKelvey Jr., AB '87, BS '87, made a \$15 million commitment to name a new building at the engineering school in honor of his father. James M. McKelvey, Sr. Hall will house the Department of Computer Science & Engineering and support the university's data science efforts. Construction is expected to be complete in 2020.

(Left to Right): Aaron Bobick, Dean, School of Engineering & Applied Science and James M. McKelvey Professor; James McKelvey Jr.; Anna McKelvey; James McKelvey Sr.; and Judith McKelvey











TISCH PARK WILL CREATE WELCOMING ENTRANCE TO CAMPUS

Part of the East End Transformation

Trustee Ann Rubenstein Tisch, AB '76, and her husband, Andrew Tisch, longtime benefactors of Washington University, provided a lead gift for the east end transformation project to support the creation of Ann and Andrew Tisch Park. The reimagined green space will offer a lively, welcoming entrance to the Danforth Campus and a place for students, faculty and staff members, and visitors to gather and celebrate. Situated between Skinker Boulevard and the current location of Hoyt Drive, Tisch Park will be home to 70 of the more than 300 trees to be planted on the east end.



For more information about the east end transformation, which is ushering in a new era of academic excellence for Washington University, see page 16.

SCHNUCK PAVILION WILL HOUSE DINING FACILITIES AND SUSTAINABILITY PROGRAMS

Part of the East End Transformation

Craig Schnuck, chair of Washington University's Board of Trustees, is among the university leaders who have played a key role in planning the transformation of the east end of the Danforth Campus. His engagement with that project led him and his wife, Nancy Schnuck, to make a leadership commitment to support construction of the Craig and Nancy Schnuck Pavilion, a multiuse facility that will provide vital services and serve as headquarters to the university's sustainability initiatives. Schnuck Pavilion will house dining facilities, the Environmental Studies program, the Office of Sustainability, a multipurpose classroom, and resources for pedestrian and bicycle commuters.

Campaign Progress as of June 30, 2017

- \$2.62 billion raised
- 129 professorships and other endowed positions, including 17 established in 2016–17
- \$456.8 million for scholarships and fellowships
- More than 146,000 campaign donors

Alumni and Friends Support in 2016–17

All are new records

- \$283.3 million in gifts
- \$29.3 million for the Annual Fund
- 64,818 donors
- 32.399 alumni donors



Washington University attracts some of the world's most academically gifted, inquisitive, and creative students, who are committed to addressing society's challenges. To realize their dreams of a top-tier education, many of these students need financial assistance. Scholarships and fellowships are a key priority for *Leading Together*.

At the end of 2016–2017, new support for scholarships during *Leading Together* reached \$456.8 million. Donors created 131 new annual scholarships and continued to sponsor 958, for a total of 1,089 annual scholarships in 2016–2017. Donors also established 105 new endowed scholarships (listed below), for a total of 572 new endowed scholarships established in the campaign to date.

Arts & Sciences

Anonymous Scholarship (3)

Maria and Aaron Goetz and Rabbi Sidney and Tovah Applbaum Scholarship

Isaac and Hilda Applbaum

Pamela Renee Benitez Scholarship Pamela Renee Benitez

Corbet Family Scholarship Kathleen A. and Randy Corbet

Freiwald Summer Scholarship Andrew W. Ferguson and Kay C. Wu

Charles W. Fullgraf Scholarship The Fullgraf Foundation

Lindsay Helmholz Scholarship Professor R. H. Helmholz

Holzman-Graziano Family Scholarship Glori Holzman Graziano Mary Curtis Horowitz Scholarship Mary Curtis Horowitz

Kern Family Scholarship Katie and Jay Kern

Dr. Paul Douglas Lyon (Bachelor of Arts 1970 and Doctor of Philosophy 1980) and Deborah Elizabeth Lyon (Bachelor of Arts 1973) Scholarship

Elizabeth Anne Mack Lyon and Dr. John B. Lyon

Professor Michael Merbaum Scholarship

Tal and Ariel Recanati

Andrea Grant and Selig S. Merber Scholarship

Ms. Andrea Grant and Mr. Selig S. Merber

Thomas W. Ottenad Scholarship Mary Jane Ottenad* Michael P. Pacin, M.D. and Professor Amy D. Ronner Scholarship in Honor of Professor Alfred Holtzer Michael P. Pacin, M.D. and Amy D. Ronner, Ph.D.

Helen Power Scholarship Washington University

Jill and Mitchell Roberts Family Scholarship

Jill and Mitchell Roberts

Dr. Charles L. Robertson and Dianne Robertson Scholarship Chuck and Dianne Robertson

Dr. James S. Roloff Scholarship Dr. James S. Roloff

Rosen Family Scholarship for Brain Sciences

Linda and Kevin Rosen, Nicole Rosen

Michael and Deborah Salzberg Scholarship

Michael D. Salzberg and Deborah Ratner Salzberg

Judith F. and Robert J. Schnitzer Scholarship

Ms. Judy Friedman and Mr. Robert J. Schnitzer*

Don E. and Kathleen M. Sokolik Scholarship

Don E. and Kathleen M. Sokolik

Kenneth S. Teel and Odette G. Teel Graduate Psychology Fellowship in the Department of Psychological and Brain Sciences

Kenneth and Odette Teel*

Nancy Alicia Wayland Scholarship Mr. Joseph F. Wayland and Ms. Patricia Vercilli Belinda Hsu and David Weisner Scholarship for Asian Studies Belinda Hsu and David Weisner

Eugene and Eleanor Weiss Scholarship

Jay Weiss

Harry K. and Carol Brouse Windland Scholarship in Honor of Sidney M. and Jenny R. Brouse

Harry K. and Carol Brouse Windland

James and Juanita Wittmer Scholarship

James F. and Juanita L. Wittmer

Olin Business School

W. Gene Adams Scholarship W. Gene Adams*

William G. Buckner Graduate Scholarship

William G. Buckner*

Arthur E. and Linda A. Curle Scholarship

Art and Linda Curle

Ira and Jill Gansler Scholarship Ira Gansler

Patricia Gillula Scholarship E. William Gillula

Gloria and Vincent Gorguze Scholarship

Ms. Lynn Ellen Gorguze and Mr. Scott H. Peters

Mahendra R. Gupta and Sunita Garg Scholarship Washington University

William A. and Christine A. Linnenbringer Scholarship William A. and Christine A. Linnenbringer Mosbacher Family Scholarship Merry and Jim Mosbacher

Rosenkranz Family Scholarship Jeff A. and Lisa Kaplan Rosenkranz

Allan and Lily Schweitzer Scholarship Allan and Lily Schweitzer

Dennis D. Uchimoto Scholarship in Accounting in Honor of Geraldine J. and Robert L. Virgil Dennis D. Uchimoto

A. Greig Woodring Scholarship Reinsurance Group of America Inc.

School of Engineering & Applied Science

Mr. and Mrs. Mohammed Shams-ul-Islam Ansari and Family Scholarship Mohsin Ansari and Alya Haq

Justice Mohammed Habeeb Ansari and Mrs. Mateen Ansari Scholarship Mohsin Ansari and Alya Haq

Stuart Brown and Sandra DeJong/ Langsdorf Scholarship

Stuart Brown and Sandra DeJong

Roger and Tracy Chamberlain Scholarship

Roger and Tracy Chamberlain

Fullgraf Fellowship
The Fullgraf Foundation

Richard L. Hedden Scholarship Richard L. Hedden*

William H. Hochstettler III and Cheri L. Hochstettler Scholarship William H. Hochstettler III and Cheri L. Hochstettler

Richard and Jody Homans Scholarship Richard and Jody Homans

Toby H. Kusmer Scholarship
Toby H. Kusmer and Ruth L. Kaplan

Lundquist-Stebbins Scholarship Mr. William R. Stebbins Jr.*

Robert and Marie O'Donnell Graduate Scholarship

Robert T. O'Donnell and Marie Rulfs O'Donnell*

Paik Family Scholarship Edward Paik and Naxin Jiang Paik

Ramerth Family/Langsdorf Scholarship Brent Ramerth and Kalinda Lisy

Sam Fox School of Design & Visual Arts

Fetterman-Compadre Scholarship James C. Fetterman

Hopper Family Scholarship Vicki and Dennis Hopper

April May Scholarship April May*

Jill and Mitchell Roberts Family Scholarship

Jill and Mitchell Roberts

School of Law

Catherine and Paul Aaron Family Scholarship

Catherine and Paul Aaron

Virginia Tomasulo Anthes Scholarship Virginia Anthes*

Betty and Morrey Frey Scholarship Martin A. Frey, Class of 1965

James P. Gray Scholarship James P. Gray

Cynthia Heath Family Scholarship Cynthia G. Heath

Max G. and Marilyn G. Margulis Scholarship

Max G. and Marilyn G. Margulis

Andrea Grant and Selig S. Merber Scholarship

Ms. Andrea Grant and Mr. Selig S. Merber

Military Leaders Scholarship Veteran Alumni and Friends of Military Veterans

Robert G. Schwendinger and Tatjana Schwendinger Scholarship

Robert G. Schwendinger and Tatjana Schwendinger

Donald J. and Shirley B. Sher Scholarship

Donald J. and Shirley B. Sher

Lewis A. Sigler Scholarship Lewis Sigler*

School of Medicine

Dr. M. Carolyn Baum Scholarship in Occupational Therapy Dr. Carolyn Baum

Dr. Denise Beusen and Mr. Jon Beusen Scholarship

Dr. Denise Beusen and Mr. Jon Beusen

Data-Cantrell Family Scholarship Dr. Joann L. Data and Mr. Herman A. Cantrell Anthony E. Fathman, M.D. Scholarship C. Garrison Fathman, M.D. and Ann Kohlmoos Fathman

Margaret Hoynak Scholarship Dr. Bryan C. Hoynak

Edward L. Kaplan, M.D. and Irene Colle Kaplan Medical Student Scholarship Edward L. Kaplan, M.D., '62 and Irene Colle Kaplan, M.Ed., '59

Harry and Minnie Kramer Scholarship Dr. Jeffrey Kramer and Mrs. Polly Kramer

The Class of 1974 Scholarship in Honor of Dr. Jonathan Mann Dr. Joan G. Clark

Mary Anne Rudloff Scholarship Dr. Mary Anne Rudloff

Dr. David Schlessinger Honorary Scholarship Anonymous

The Warren Family Scholarship

Drs. Robert W. and Nancy J. Warren

James and Juanita Wittmer Scholarship

James F. and Juanita L. Wittmer

Washington University School of Medicine Class of 1995 Scholarship Members of the Class of 1995

Brown School

Anonymous Scholarship (1)

Ross and Carol Brownson Scholarship Ross C. Brownson and Carol A. Brownson

Cahn Family Endowed Master's Research Fellowship

Charles M. Cahn and Stephanie M. Cahn and Family

Carol McCarthy Duhme Scholarship Carol McCarthy Duhme

Margaret Schutz Gordon Scholarship Margaret Schutz Gordon*

William E. Gordon Scholarship Margaret Schutz Gordon*

Carl E. Josehart and Samuel M. Jacobson

Scholarship
Carl E. Josehart and Samuel M. Jacobson

Donna King Scholarship Evelyn Bonander and Donna King*

Paul and Nancy Parker Tice Scholarship Nancy Parker Tice and Paul N. Tice University

Anonymous Scholarship (1)

John Berg Scholarship Washington University

Bluedorn Family Scholarship Todd and Barbara Bluedorn

Leo R. Buder Foundation Trust Scholarship Leo R. Buder*

Barbara A. and Thomas M. Feiner Scholarship

Barbara A. and Thomas M. Feiner and Washington University

Samuel and Veronica Ingene Scholarship Dr. Charles A. Ingene

Long Student Aid Fund Mr. John P. Long*

Ralph J. and Trish M. Nagel Scholarship Ralph J. Nagel and Trish M. Nagel

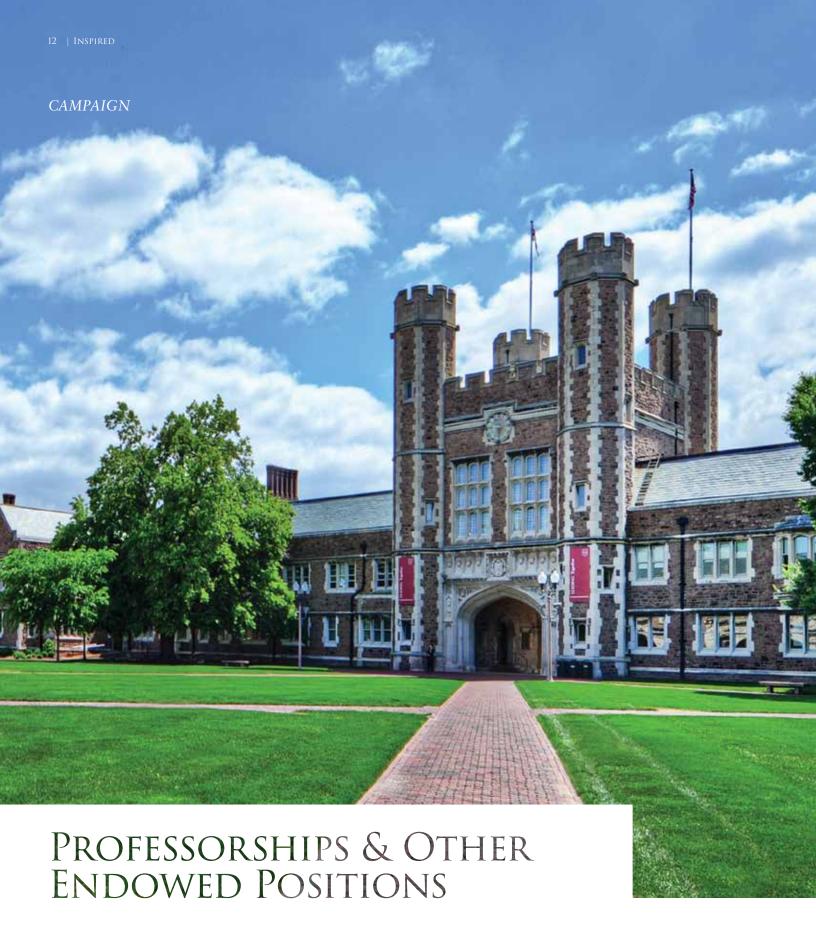
Nagel Foundation

Edward L. Pipkin Scholarship

Mr. Edward L. Pipkin*

Helen and Elmer Schwind Scholarship Dr. Charles A. Ingene

Jane Stamper Scholarship Ms. Jane Stamper*





Distinguished faculty and visionary leaders define a great university. Endowed positions help attract and retain accomplished professors, deans, directors, and coaches who advance excellence — and who challenge and inspire students to go on to great accomplishments of their own.

Endowed positions are the highest honor Washington University can bestow. They are powerful tools for recruiting, retaining, and honoring luminaries in their fields, and they are a lasting tribute to the donor and the person the donor chooses to honor. They recognize the contributions of outstanding teachers, researchers, and leaders and provide increased support for their work. Those who hold endowed positions, and their successors, will continue to provide great benefit to society for generations to come.

Investing in endowed positions ensures that we can continue to build a truly great university that serves our nation and our world. From the start of *Leading Together* through June 30, 2017, 129 positions have been established — professorships, directorships, deanships, and one coaching position. This number includes 17 positions created during 2016–17, which are listed below.

Deanship:

Neidorff Family and Centene Corporation Deanship (Brown School)

Donors: Centene Charitable Foundation Michael and Noémi Neidorff

Directorship:

Peter G. Sortino Directorship of the Gephardt Institute for Civic and Community Engagement Donor: The Danforth Foundation

Professorships funded by donors:

Daniel J. Brennan, M.D. Professorship in Neurology Donor: The Estate of Daniel J. Brennan, M.D.

Harvey R. Colten Professorship in Pediatric Science Donors: Mrs. Susan J. Colten and family, colleagues and friends of Harvey R. Colten, and the Department of Podiatrics

Lee Hunter Distinguished Professorship in Engineering Donors: Mr. and Mrs. Stephen F. Brauer

Sanford C. and Karen P. Loewentheil Distinguished Professorship in Medicine

Donors: Mr. and Mrs. Sanford Carl Loewentheil

Henry Elliot Mallinckrodt Professorship Donors: Mr. and Mrs. Edward Mallinckrodt Jr.*

Stanley A. Sawyer Professorship Donor: Stanley A. Sawyer*

Stanley A. Sawyer Professorship

Donor: Stanley A. Sawyer*

Drs. Barry A. and Marilyn J. Siegel Professorship in Radiology

Donors: Drs. Barry A. and Marilyn J. Siegel

David F. and Shirley W. Silbert Professorship in Biochemistry and Molecular Biophysics

Donors: Drs. David F.* and Shirley W. Silbert

James and Juanita Wittmer Professorship in Arts & Sciences

Donors: James F. and Juanita L. Wittmer

James and Juanita Wittmer Professorship in Medicine Donors: James F. and Juanita L. Wittmer

Professorships funded by other sources: Ralph Walter Mills Professorship in Radiology

Sherwood Moore Professorship in Radiology

Hugh Monroe Wilson Professorship in Radiology

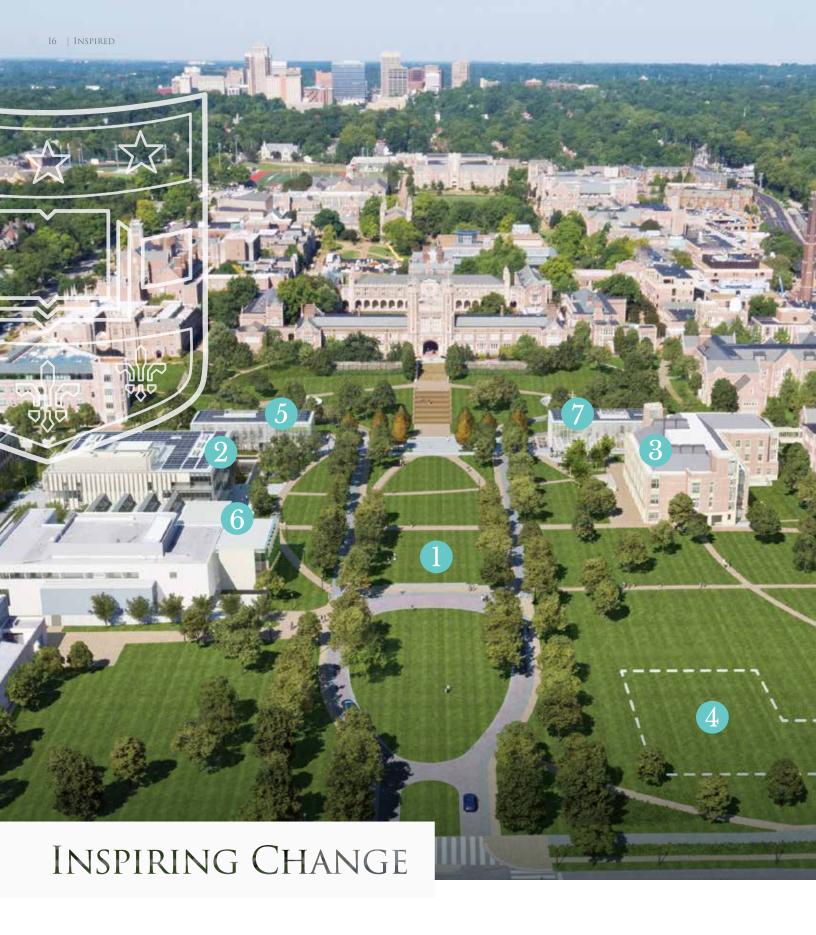
Endowed Coaching Position:

Estakhri Family Men's Soccer Head Coach Donors: Petro and Mary Estakhri

*deceased







- 1 Ann and Andrew Tisch Park
- 2 Anabeth and John Weil Hall
- 3 Henry A. and Elvira H. Jubel Hall 4 James M. McKelvey, Sr. Hall
- 5 Gary M. Sumers Welcome Center 6 Mildred Lane Kemper Art Museum Expansion
- 7 Craig and Nancy Schnuck Pavilion



EAST END TRANSFORMATION

Washington University is setting the course for its next era of academic excellence and service to society with the most extensive and multifaceted capital project in the history of the Danforth Campus.

A ceremonial groundbreaking honoring the project's lead donors took place on May 5, 2017. Construction began later that month on the eight major components: three new academic buildings, two multi-use pavilions, an underground parking garage, an expansion of the Mildred Lane Kemper Art Museum, and a beautiful new park and surrounding landscape.

"For many years, we have envisioned ways to harness the potential of this prominent part of the Danforth Campus," Chancellor Mark S. Wrighton said. "The comprehensive plan embraces our history and tradition and looks toward the future, furthering our role as a world-class teaching and research institution. We are excited to see this vision become a reality."

Henry A. and Elvira H. Jubel Hall will house the Department of Mechanical Engineering & Materials Science in the School of Engineering & Applied Science.

James M. McKelvey, Sr. Hall will be home to the engineering school's Department of Computer Science & Engineering and will support Washington University's data science initiatives.

Serving as the new front door to the Sam Fox School of Design & Visual Arts, Anabeth and John Weil Hall will provide much needed space for Sam Fox School graduate programs and will bring all of the school's programs to the Danforth Campus.

An expansion of the Mildred Lane Kemper Art Museum will create the James M. Kemper Gallery and a new entrance foyer, allowing the museum to showcase a larger portion of its world-class collection.

Ann and Andrew Tisch Park will offer a lively and inviting green space that will unite the east end of the Danforth Campus and feature an enhanced tree-lined view of Brookings Hall.

The Gary M. Sumers Welcome Center will house the Offices of Undergraduate Admissions and Student Financial Services and receive campus visitors with sweeping views and vibrant indoor and outdoor gathering spaces.

The Craig and Nancy Schnuck Pavilion will bring together a dynamic mix of dining options, the Office of Sustainability, the Environmental Studies program, and resources for pedestrian and bicycle commuters.

Construction is slated for completion in 2019, with the exception of McKelvey Hall, which will open in 2020.

Unraveling ALZHEIMER'S

"We've shown that this molecule lowers levels of the tau protein, preventing and in some cases reversing the neurological damage. This compound is the first that has been shown to reverse tau-related damage to the brain and that also has the potential to be used as a therapeutic in people."

-Timothy Miller

Brain damage caused by an abnormal protein linked to Alzheimer's disease and other neurodegenerative diseases could be reduced and even reversed by the first synthetic molecule with therapeutic potential, according to School of Medicine researchers. The compound interferes with the body's ability to build the tau protein implicated in certain brain diseases.

"This is a promising new approach to lowering tau protein. But we have to test whether it is safe in people and whether it actually lowers tau protein in people's brains as it is designed to do," said Timothy Miller, MD, PhD, the David Clayson Professor of Neurology and the study's senior author. "But everything we've seen so far says that this is worth investigating as a potential treatment for people."

The study, published in January in Science Translational Medicine, shows that an antisense oligonucleotide molecule administered to mice that were genetically modified to produce a mutant form of human tau protein — significantly reduced the levels of tangled tau proteins associated with brain dysfunction. Treated mice in the study lived longer than untreated mice and displayed better cognitive functioning. Miller's team also treated healthy monkeys with the molecule and found reductions of tau protein in the brain.





"We need to stack the deck for prevention — embrace the opportunity to reduce our collective cancer toll by changing the way we live."

-Graham Colditz

Cutting Cancer in Half

Cancer rates can be cut in half just by putting into widespread practice what we already know about preventing the disease, according to Graham A. Colditz, MD, the Niess-Gain Professor of Surgery and deputy director of the Institute for Public Health.

In a March 2017 article in the New England Journal of Medicine, Colditz and co-author Karen M. Emmons of the Harvard T.H. Chan School of Public Health called for education efforts and implementation of programs, policies, and practices to help people avoid smoking and weight gain, increase exercise and fresh-produce consumption, and get appropriate cancer screenings and vaccinations. "Our challenge is to act on the knowledge we have," said Colditz, who also serves as associate director of prevention and control at Siteman Cancer Center at Barnes-Jewish Hospital and Washington University School of Medicine in St. Louis.

However, such change has not proven easy. Colditz calls for increased research into how to break down barriers that keep people from adopting healthy lifestyles. Such findings could translate to huge health and economic benefits.

"Public health programs that focus on prevention have returns on investment that would be the envy of the business world," Colditz said. "Smoking cessation programs save over \$2 for every dollar of funding, which jumps to up to \$17 for programs targeting pregnant smokers. Building walking and bike paths triples savings. And implementing policies to tax sugary drinks saves an incredible \$55 for every dollar of funding."

Yet public health programs often go underfunded — sometimes drastically so, he said.

"To help realize the potential of cancer prevention, one of our important roles as researchers and health professionals has become that of communicator — to effectively convey the power and impact and excitement of public health," Colditz said.

FIGHTING MALNUTRITION

Jeffrey Gordon's research into the human gut microbiome and its relationship to disease and health received a significant gift from the Harry Edison Foundation.

> In 2017, the global fight against childhood malnutrition got a helping hand via a \$10 million gift to support the interdisciplinary Center for Genome Sciences & Systems Biology and the groundbreaking work of its director, Jeffrey Gordon, MD, the Dr. Robert J. Glaser Distinguished University Professor.

> "This support from the Harry Edison Foundation will enable us to make timely investments to enhance the work of the group of extraordinarily gifted, creative, and inspiring students who we, the faculty, are so fortunate to have in our labs," Gordon said. "Through the Harry Edison Foundation, the Edison and Newman families have had a profound impact on life and health in St. Louis and beyond. Both families' belief in our center and our potential to improve the health and well-being of people around the world encourages and enables us to keep making progress."

In recognition of the ongoing generosity of the Edison family, the center is being renamed the Edison Family Center for Genome Sciences & Systems Biology.

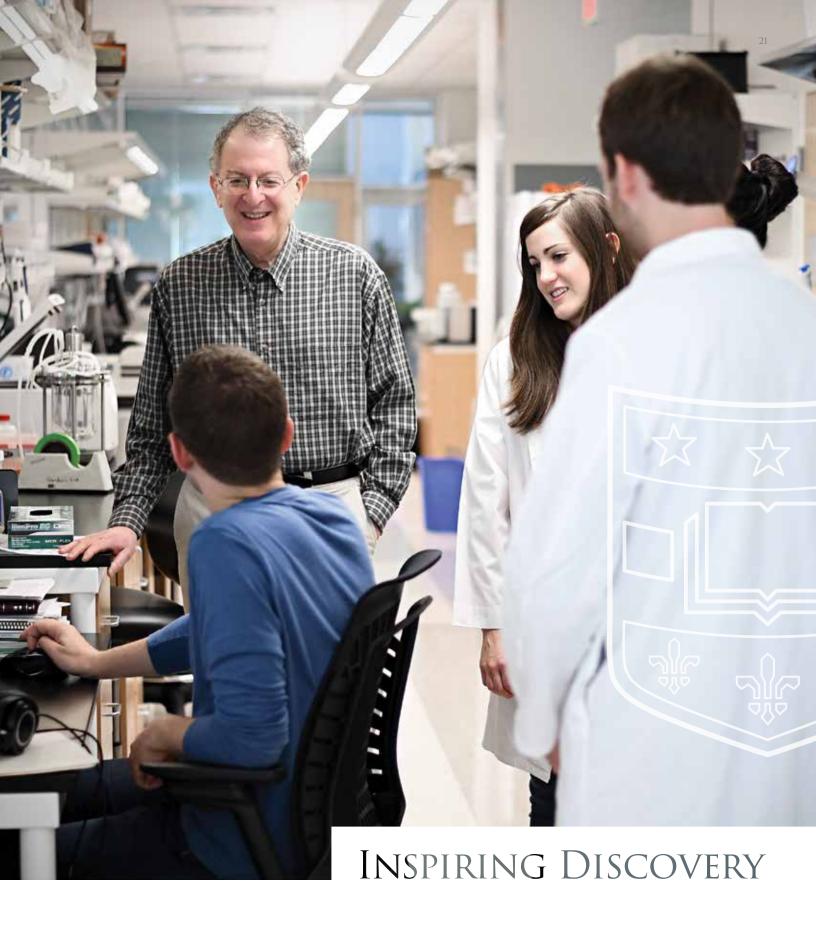
Gordon, who joined the School of Medicine in 1981, has played an internationally recognized pioneering role in establishing a research field devoted to the human gut microbiome. His trailblazing work has focused on the vast community of microbes that live in the human gut and their relationship to disease and good health.

After initially discovering the relationship between dysfunctional gut microbiomes and obesity more than a decade ago, Gordon's work has expanded to include childhood malnutrition, the leading cause of death worldwide in children under age 5. He and his students are formulating food-based therapies designed to repair the gut microbiota in malnourished children. Working with collaborators in Bangladesh, they are testing these therapeutic foods.

In recognition of his seminal work, Gordon was honored in September 2016 with the prestigious Steven C. Beering Award, given annually to an individual whose research contributions have led to outstanding advances in the biomedical sciences.

Previous gifts from the Harry Edison Foundation, spanning 50 years, have supported two professorships and a variety of initiatives and programs at the School of Medicine, including diabetes research, stem cell and developmental biology research, and the construction of the Eric P. Newman Education Center, named in honor of Eric P. Newman, JD '35, nephew of Harry Edison.





LEADING THE WAY IN ZIKA FIGHT

Washington University researchers comprise a significant nexus in the international effort to fight the mosquito-borne Zika virus, whose spread has been declared a global public health emergency by the World Health Organization. Zika, which can irreparably damage babies' brains and has been linked to myriad health problems, has rampaged throughout Latin America and ranged to the U.S., Africa, India, and elsewhere.

Michael Diamond, MD, PhD, the Herbert S. Gasser Professor of medicine and professor of molecular microbiology and of pathology and immunology, began focusing on Zika in 2015 after a chance conversation at an international National Institutes of Health (NIH)-hosted conference with a colleague from Brazil, where the number of significant Zika infections was growing. Diamond's lab began some pilot projects on the virus, which drew interest and funding from the NIH.

Less than a year later, School of Medicine researchers had developed several useful mouse models of the Zika infection and pathogenesis, identified potential drug targets to block the spread of the virus, showed that Zika can persist in the eye and testes, and identified specific antibodies that could be the basis for vaccines, diagnosis, or treatment. The Diamond laboratory more recently published on the efficacy of novel mRNA-based vaccines against Zika virus in mice. This data was important for advancing these mRNA vaccines to current trials in humans.

"While it was true that few were studying Zika before last year, it's not true that we weren't prepared for this outbreak," Diamond said. "Within a very short period of time, the field generated vaccine candidates, therapeutic candidates, and animal models both in mice and primates. It shows that by studying basic properties of pathogens, whether bacteria, viruses, or otherwise, we'll learn enough so that if something does happen, we'll be prepared, poised, and nimble enough to move into the field very quickly to make significant progress. And that's what's been done with Zika."



Washington University's School of Law, the oldest private law school west of the Mississippi, began celebrating its sesquicentennial in academic year 2017 with U.S. Supreme Court Chief Justice John G. Roberts Jr., former Massachusetts governor and presidential candidate Mitt Romney, the Missouri Supreme Court, and Mark Twain. This milestone marks 150 years of legal education and practice and highlights a legacy of scholastic excellence.

Festivities kicked off at Orientation 2016 with a Graham Chapel Convocation Ceremony welcoming the School of Law's 150th class — with students representing 41 states and 30 countries. Speakers included Dean Nancy Staudt, the Howard and Caroline Cayne Professor of Law; Chancellor Mark S. Wrighton; Missouri Chief Justice Patricia Breckenridge, as well as other Missouri Supreme Court Justices and law school faculty.

Incoming students also participated in small group discussions with prominent alumni judges and others, including state Supreme Court justices and federal court judges.

In February the School of Law hosted a fireside chat with Mitt Romney. Vice Provost Adrienne Davis, the William M. Van Cleve Professor of Law, and Vice Dean Adam Rosenzweig led a discussion with Romney that touched on presidential leadership, cultural diversity, trade, immigration, and governmental regulation.

This past March in Washington, D.C., the School of Law convened a three-judge panel led by Chief Justice Roberts to resolve "The Case of Tom Sawyer." The mock trial included a presentation by university performing arts students, incorporating the fencewhitewashing scene from the Mark Twain novel and Tom's fraudulent misrepresentations. Faculty members, alumni, and other attorneys participated in the tongue-in-cheek trial before a black-tie audience of alumni and friends. The event was covered at length by The New York Times.











MECHANOBIOLOGY FACULTY DELVE INTO CELLS TO FIND CURES

By diving more deeply into the electrical and mechanical functions of individual animal and plant cells, researchers at Washington University's newly formed Science and Technology Center for Engineering MechanoBiology (CEMB) could fundamentally transform both medicine and agriculture.

A \$23.6 million National Science Foundation grant funds the Washington University CEMB, where researchers in the School of Engineering & Applied Science and in Arts & Sciences collaborate with those from the University of Pennsylvania.

"The possible advances are nearly limitless," said Guy Genin, principal investigator of Washington University's portion of the grant and professor of mechanical engineering and materials science in the School of Engineering & Applied Science. "If we can program cellular mechanical behavior, we could stop cancer cells from metastasizing. We could also improve our bodies' system functions and vastly change the way we approach injuries, with the potential to speed up rehabilitation."

"Mechanobiology has incredible potential. It could transform the way we view many of the world's most complex questions and issues," Genin said. "As this center unravels how plant and animal cells are controlled by force and by their mechanical microenvironments, we hope to apply this knowledge to develop technologies for new therapies, materials, and agricultural techniques."

MYSCI BOOSTS TEST SCORES

Science proficiency for elementary students in north St. Louis County's Pattonville School District jumped from 38 percent to 65 percent in the first year after the district implemented the innovative MySci curriculum developed by Washington University's Institute for School Partnership (ISP).

"With careers in STEM (science, technology, engineering, math) growing, we recognize the need to equip our students with those necessary 21st-century skills," said ISP Executive Director Victoria May. The best way to do that, she added, is by hands-on learning. "Actually doing science — not just talking about it or reading about it — is key to student success."

Teachers learn key scientific concepts and how to activate small-group learning, and classrooms receive MySci kits — with books, batteries, light bulbs, and more to foster that hands-on learning. MySci now serves 55,000 K–8 pupils in public, private, and charter schools throughout the region, helping students at all learning levels to advance.

"We have found that doing what scientists do in the field and then thinking and writing about that data helps lower-achieving students grasp these concepts," May said, "and pushes higher-achieving students to the next level."

She describes the MySci program as transformative. "Gone are the traditional teaching methods of the heavy textbook and heavier lectures. Every day there are interactions — hands-on experiments, books, pictures, or short videos," May said. Further, the program prepares teachers with clear and achievable lessons. "MySci empowers teachers to feel confident about teaching science."

The active MySci curriculum works to engage all students in science learning, not just the ones who raise their hands, May said, which bodes well for their future opportunities. "MySci helps ensure that the next generations of our STEM leaders will come from schools right here in the St. Louis region."

The Monsanto Fund has figured prominently in MySci's success. A \$3.7 million grant in 2005 helped start the program, followed by a \$2.2 million grant in 2012.

Investing in Imaging Sciences

A \$25 million initiative adds faculty and research centers that are poised to create breakthroughs in diagnosing and treating disease.

> Advanced imaging science at Washington University helps diagnose and treat disease as well as study intricate biological, molecular, and cellular processes. Now it will expand significantly over the next five years, thanks to the \$25 million Imaging Sciences Initiative between the School of Engineering & Applied Science and the School of Medicine.

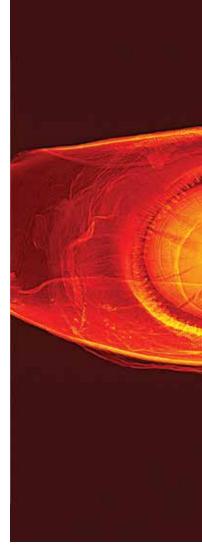
"Washington University will further establish its place at the forefront of groundbreaking biomedical engineering and imaging research that can have an immediate impact in the world," said Aaron F. Bobick, dean of the School of Engineering & Applied Science and the James M. McKelvey Professor.

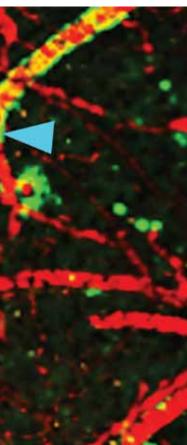
This initiative adds eight new faculty to the 100-plus cadre of engineering and medical school imaging scientists. These scientists will build on a strong history of breakthroughs on numerous fronts, from individual cells and nerves, to cancer tumors and Alzheimer's disease plaques, to innovative brain maps.

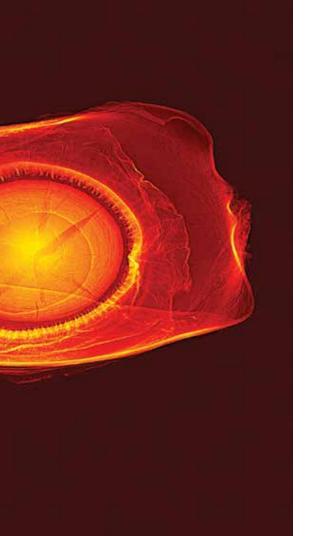
In addition to recruiting new faculty, the initiative will add imaging research centers focused on fundamental science and technology, translational clinical opportunities, and an interdisciplinary imaging sciences doctoral program.

Six departments are taking part in the initiative: biomedical engineering, computer science & engineering, electrical & systems engineering, and, at the medical school, radiology, radiation oncology, and cell biology and physiology.

David H. Perlmutter, MD, executive vice chancellor for medical affairs and dean of the School of Medicine, said he is thrilled with the potential the initiative holds for pushing the boundaries of imaging technology "to better diagnose and treat cancer, Alzheimer's, and other diseases that so tragically affect society. Welcoming new scientists to our faculty and training the next generation of imaging scientists is exciting," Perlmutter said. "I am eager to see the benefits this effort will have on mankind."

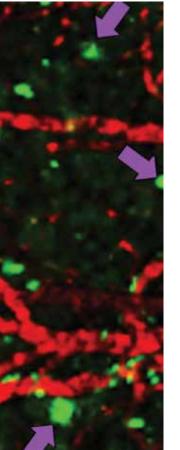


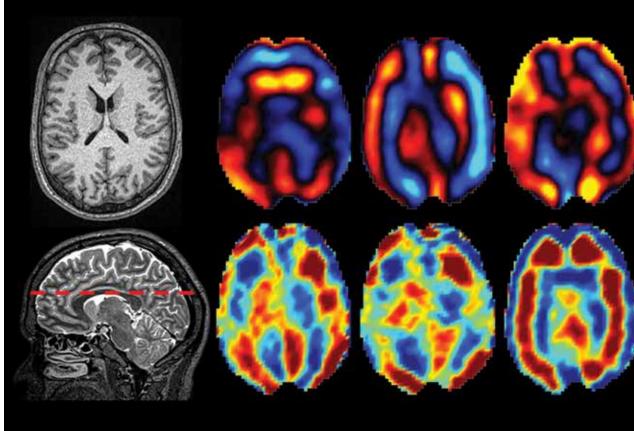






Inspiring Breakthroughs





OPENING A STATE-OF-THE-ART REC CENTER

"The goal was to create a place where everyone regardless of age, interests, or fitness level — would feel welcome."

—Brvan Lenz

The new Gary M. Sumers Recreation Center brings revitalized fitness facilities to the Danforth Campus, helping to foster the physical and emotional well-being of the entire university community.

Dedicated October 28, 2016, and named for alumnus and trustee Gary Sumers, AB '75, the center is already serving as a magnet for the university community with an average of 1,700 visitors per day. "The debut of the Gary M. Sumers Recreation Center marks the start of a new era. It is an inclusive, vibrant facility that celebrates the best of all of us and brings the entire Washington University community together in a shared pursuit: to live healthier lives," said Brian Lenz, the university's inaugural director of recreational sports and fitness.

More space and a variety of offerings are helping to attract the university community to the center. The center

houses new cardio machines, a spinning room, two fitness studios, and a threecourt gym with an elevated running track. Users can take advantage of daytime and evening cycling, yoga, kickboxing, and other fitness classes, expanded intramurals, and discounted personal training and massage therapy. Washington University varsity athletes also are benefiting from the new and renovated spaces with new locker facilities, an expanded sports medicine suite, and other features.

Developed after years of planning with input from students and employees, the center is part of the first major update to the Athletic Complex since 1984. The Sumers Recreation Center comprises a reimagined Francis Gymnasium, home to the 1904 Olympics, and a 66,500-squarefoot addition.





"Once we've established an improved baseline of healthy maturation and aging, other scientists will have access to use it to differentiate normal changes from those due to disease."

—David Van Essen

Tracking the Human Brain

To learn how the human brain develops and changes over time, Washington University researchers are scanning the brains of some 2,500 people, from kindergartners to centenarians, under two National Institutes of Health (NIH) grants totaling \$34 million.

The imaging data — part of the Lifespan Human Connectome Project — will be an incredible resource for others studying childhood disorders such as autism and neurodegenerative diseases such as Alzheimer's, said David Van Essen, the Alumni Endowed Professor of Neuroscience at the School of Medicine and a co-principal investigator on both grants.

Van Essen and his student, Matthew Glasser, MD '17, PhD '17, previously helped develop a detailed brain map that depicts the landscape of the cerebral cortex, the brain's outermost

layer, where sensory perception, attention, language, and abstract thinking occur. The map, reported in a 2016 issue of *Nature*, will greatly benefit researchers at Washington University and beyond who are studying brain diseases such as autism, schizophrenia, dementia, and epilepsy.

Washington University researchers also are playing a key role in the landmark nationwide Adolescent Brain Cognitive Development (ABCD) study through a \$5.6 million NIH grant. "We're looking at a wide variety of factors, from peers to social support to families, to determine how some things promote healthy brain development while other things can interfere with it," said Deanna M. Barch, head of the Department of Psychological and Brain Sciences in Arts & Sciences and the Gregory B. Couch Professor of Psychiatry at the School of Medicine. Barch is a co-principal investigator on the ABCD study as well as on the children's part of the Lifespan Project.

MAKING DREAMS COME TRUE

Scholarships and stipends offer exceptional young people the

opportunity to realize their extraordinary potential. Meet three such spring 2017 graduates who aspire to lives and careers of significance.

James Petersen returned to his hometown of St. Louis in 2014 after a decade in Iraq and Afghanistan as a Marine and private contractor. After receiving treatment for PTSD, he began working with homeless veterans at the downtown St. Patrick Center.

"I realized serving veterans is what I wanted to do," Petersen said. He decided that going back to school to get a master's degree in social work would help him achieve his goal. "The Brown School has one of the leading social work programs in the country. I am so lucky that I happened to be in the same city."

Supported by a Dorothy J. Ogilvy-Lee Scholarship, Petersen earned a master's degree in social work while also helping to launch the largest Veterans Day celebration on campus and serving as president of WUVets, named Chapter of the Year at the Student Veterans of America Conference earlier this year. He is currently continuing his work in veterans' affairs.

Daisy Ogede, born in Nigeria and raised in Chicago, is now enrolled in medical school "pursuing my dream of being a physician," she said. Her ability to pursue this dream was made possible by a Roland Quest Scholarship, which helped Ogede, who was a biology major with a neuroscience concentration in Arts & Sciences, earn her bachelor's degree at Washington University.

Such scholarships, she said, are "funded by people who believe that people like me who cannot afford Washington University have the ability to attend a school like this."

Ogede, a sprinter, helped the women's indoor track & field team win its first NCAA III National Championship in 2017 with three All-American finishes. She also won the 200-meter individual championship in 2016.

Josh Church, a Sedalia, Missouri, native and Olin Business School MBA graduate, credits his Wood Leadership Fellows Program scholarship with putting him in a position "to develop a career that benefits society. The Wood Fellowship had a huge impact on my life."

Church, who ranked among the top 10 students in his MBA class, works as an analyst for a firm managing investments for public worker pension funds and nonprofits. He hopes to help grow the firm's ESG (environmental, social, and governmental) strategy, which "rewards companies that not only do well financially but also do well in areas such as environmental impact and corporate governance."

Church also serves on the board of an area nonprofit that helps children, teens, and young adults overcome traumatic life challenges, an appointment arranged through the Olin Board Fellows Program.





Inspiring Tomorrow's Leaders

EXPLORING OPTIONS FOR HUMANITIES PHDS

Humanities doctoral training historically has focused on preparing graduates for tenure-track faculty positions. But Jean Allman wants to widen that view and thus broaden employment options outside academia for those with humanities PhDs. Humanities knowledge and methods can make an even more substantial impact on society if students are able to translate what they learn in doctoral programs into a multitude of careers.

"We all want our graduates to be doing interesting and strategic work," said Allman, the J.H. Hexter Professor in the Humanities and director of the Center for the Humanities in Arts & Sciences. "Anything that engages the best of your skills can be an equally worthy outcome. We all want the humanities to thrive." Allman won a prestigious National Endowment for the Humanities (NEH) Next Generation Humanities PhD Planning Grant to help her achieve that end.

"Within departments, one often hears about advisees who've been granted tenure but seldom about advisees who become CEOs or who direct nonprofits. Most programs don't have a culture of celebrating that," Allman said. "We are just too stuck in our silos."

With this grant, Allman aims to change that. In an effort to help break down the traditional silos, she and her colleagues have been studying the small size of many PhD programs, pre-qualification coursework and the duration of study, fellowships and internships, advising those uninterested in tenure-track work, and other issues. "Our work has been extraordinarily productive," Allman said. "Indeed, some implementation has already happened at the departmental and divisional levels."



Research shows that young black men in St. Louis are at higher risk for self-destructive behavior, incarceration, and homicide, says Professor Sean Joe. To help address these disparities, his research project HomeGrown STL seeks to increase social mobility for young black males in St. Louis and close the education and employment gaps that hold them back.

"St. Louis-area black youth and young men aged 12 to 29 often face numerous roadblocks to success," said Joe, associate dean for faculty and research and the Benjamin E. Youngdahl Professor of Social Development at the Brown School. His research project uses local public and private-sector community-service organizations to help clear those roadblocks. "HomeGrown STL is gathering data and fostering institutional partnerships that will build regional capacity to better serve these boys and young men."

The HomeGrown STL Census/Registry of area programs and services for black boys and men will provide a capacity baseline and annual summits will build allegiances and align strategies.

"A commitment to advancing community-level intervention science using a university-based regional intermediary such as HomeGrown STL can lead to innovations for eliminating known disparities in economic social mobility," Joe said.

Joe's work with at-risk youth also extends to college students of color, who, research shows, are less likely to seek help when depressed and who feel less prepared emotionally for college. He helped organize the third annual Young, Gifted & @Risk conference last fall, collaborating with the nonprofit Steve Fund to convene some 200 nationwide researchers. practitioners, and community members at the Brown School.











OLIN BUSINESS SCHOOL CELEBRATES 100TH YEAR

A century ago, economics professor William F. Gephart sought to establish an institution that would rival the new breed of business schools at Harvard, University of Pennsylvania, and Columbia. With encouragement and \$1,000 in seed money from Washington University Board President Robert S. Brookings, Gephart solicited donations from some 30 St. Louis business leaders and convinced the Board of Trustees to charter the School of Commerce and Finance, founded March 30, 1917, and offering a single degree in undergraduate business.

That fledgling entity — now grown into the internationally acclaimed Olin Business School — celebrated its 100th birthday during the spring Reunion at ThurtenE Carnival with a series of events, including the centennial gala, which drew more than 1,000 attendees. Other Reunion Weekend celebrations included the Emerging Leaders Celebration, the Bauer Leadership Forum, the Distinguished Alumni Award Ceremony, and Dean Mark Taylor outlining his vision for Olin's second century. At the school that same weekend, more than 700 people attended Shakespeare's 453rd birthday celebration, which highlighted the playwright's messages for business leaders and managers.

The school also celebrated being named by Poets & Quants as providing the best undergraduate business education nationwide. Olin also boasts strong international programs, with more than 60 percent of Olin undergraduates participating in study abroad programs and internships around the world.

STUDENT IDEA ADDRESSES FOOD INSECURITY AND ACCESS

In recent years, dozens of local postal branches have been reviewed for possible closure or consolidation. Meanwhile, nonprofits focused on food insecurity face great demand but have limited distribution networks and warehouse space. An innovative idea by an interdisciplinary Washington University student team to address food access and equality by linking those two realities won the international design competition Urban SOS: Fair Share.

First Class Meal — first among more than 80 entries from teams representing 31 countries — was conceived by Sam Fox School of Design & Visual Arts graduates Anu Samarajiva, MArch '17, MUD '17, and Lanxi Zhang, MLA '16, MUD '16, and Brown School graduate Irum Javed, MPH '17, under the direction of Linda C. Samuels, associate professor of urban design. They were motivated by the fact that the sharing economy has evolved largely via the use of technology, but they also wanted to employ spatial concepts to reach more equitable outcomes — themes from their design and public health coursework.

The team's prototype program pairs mobile technology with the physical resources and distribution networks of the U.S. Postal Service, as well as food-recovery agencies already active in Los Angeles. Samarajiva, Zhang, and Javed propose adapting postal branches to collect, store, and distribute food. When items are ready for pickup, local residents and area food banks could potentially use a mobile app to notify USPS workers, who would then collect — and perhaps even deliver — food items alongside mail.

"First Class Meal does what the best sharing opportunities do," Samuels said. "It identifies excess capacity from one person or organization and makes it available to another one in need, creating a symbiotic relationship that improves the success and efficiency of both partners."

In spring 2017, the First Class Meal team returned to Los Angeles to meet with their project partners and discuss next steps. Representatives from the City of Los Angeles, Food Forward, and LA Kitchen joined Urban SOS: Fair Share competition sponsors 100 Resilient Cities and AECOM for a brainstorming session that produced a range of possible pilot options for broadening the reach of food distribution in downtown Los Angeles.



ULY

The John M. Olin Library receives one of the few surviving broadsides of the Declaration of Independence. The document, a gift from the family of Eric and Evelyn Newman, will go on permanent display at Olin Library in spring 2018.

A team of university engineers has found a way to use graphene oxide sheets to transform dirty water into drinking water. "We hope that for countries where there is ample sunlight, such as India, you'll be able to take some dirty water, evaporate it using our material, and collect fresh water," said Srikanth Singamaneni, associate professor of mechanical engineering and materials science at the School of Engineering & Applied Science.

Philip R.O. Payne, the Robert J. Terry Professor, Division of General Medical Sciences in the School of Medicine. is named inaugural director of the Institute for Informatics. The new institute will coordinate informatics efforts across the Medical Campus and include partnerships with the School of Engineering & Applied Science, the Institute for Public Health, the Brown School, the Olin Business School, the Innovations Incubator at BJC HealthCare, and the Cortex Innovation Community.

Year In REVIEW 2016



AUGUST

The National Cancer Institute awards a \$10.4 million, five-year grant to researchers and physicians at Siteman Cancer Center to lead a national group of experts in collaborative pancreatic cancer research. The award, a Specialized Program of Research Excellence grant, will help scientists pursue new treatments for the deadliest form of the disease, pancreatic ductal adenocarcinoma, including development of more effective chemotherapies and a vaccine.

The university forms the Center for Reproductive Health Sciences, one of only a handful of medical school-based facilities focused on reproductive health. The center aims to bring together faculty members to conduct basic, translational, and clinical research focused on reproductive health.

The Department of East Asian Languages and Cultures begins offering a new Korean language and culture major in fall 2016.

Wealth and asset management is a new degree track as part of the Master of Science in Finance degree at Olin Business School. This track is designed to serve a growing market need as more Americans retire and assets are either passed on to the next generation or donated.

The Brown School launches a 3-2 Master of Public Health program. Designed for Washington University undergraduates, the program allows students to earn both an undergraduate degree and a master's in public health in five years. It is available to students pursuing any undergraduate major in Arts & Sciences.



SEPTEMBER

Elizabeth Haswell, associate professor of biology in Arts & Sciences, is named a Faculty Scholar by the Howard Hughes Medical Institute, in partnership with the Simons Foundation and the Bill & Melinda Gates Foundation. The program selects outstanding earlycareer scientists. Haswell's award provides \$900,000 in support over a five-year period.

The X-Calibur telescope collects data on the X-ray emission from a neutron star, a mass-accreting neutron star, and a stellar-mass black hole in the 24 hours it floated at the top of the stratosphere above Arizona and New Mexico.

The McDonnell International Scholars Academy co-hosts a symposium entitled Addressing Global Challenges Through International Collaboration in Education and Research at the University of Queensland in Brisbane, Australia. Representatives from 32 McDonnell Academy universities addressed aging; food, water, and climate change; energy and the environment; and public health.

The dedication of the Douglas B. Dowd Modern Graphic History Library is made possible by a \$950,000 gift from Kenneth and Nancy Kranzberg. As an illustrator, critic, and curator, Douglas B. Dowd has helped to attract, shape, and interpret distinguished collections in late 19th- and 20th-century American illustration.

Vijay Ramani, an expert in electrochemical engineering and renewable energy integration, receives a \$2 million grant from the U.S. Department of Energy's Advanced Research Projects Agency-Energy to create a new membrane that can be used in batteries for grid-scale electric energy storage. Ramani is the Roma B. and Raymond H. Wittcoff Distinguished University Professor of Environment and Energy in the School of Engineering & Applied Science and the director of the university's Center for Solar Energy and Energy Storage.



OCTOBER

On October 9, the university hosts the second presidential debate between Donald Trump and Hillary Clinton. Student Union President Kenneth Sng welcomed an estimated 60 million viewers, thousands of media, and the presidential candidates. Months of preparation culminated in special programming on campus, including the Debate Fair, lectures, panels, and watch parties.

Obstetrician and gynecologist George Macones, MD, is elected to the National Academy of Medicine, a part of the National Academy of Sciences. Macones is the Mitchell and Elaine Yanow Professor and head of the Department of Obstetrics and Gynecology at the School of Medicine.

The university receives the 2016 International Humanitarian of the Year Award from the World Affairs Council of St. Louis in recognition of significant contributions to solving global humanitarian issues.

Carl M. Bender, the Wilfred R. and Ann Lee Konneker Distinguished Professor of Physics in Arts & Sciences, is awarded the 2017 Dannie Heineman Prize for Mathematical Physics by the American Physical Society and the American Institute of Physics.

On the day before the second presidential debate, the John C. Danforth Center on Religion and Politics hosts Danforth Dialogues: Envisioning the Future of Religion and Politics in America. Krista Tippett, host of the Peabody Award-winning *On Being* radio show and podcast, moderated a discussion between David Brooks, political commentator and op-ed writer for *The New York Times*, and E.J. Dionne, political writer for *The Washington Post*.

Samuel Achilefu, the Michel M. Ter-Pogossian Professor of Radiology and a research member of Siteman Cancer Center, is recognized as the first recipient of the Breast Cancer Research Program Distinguished Investigator Award from the U.S. Department of Defense. The award comes with \$4.5 million to support his work using light to activate drugs and the immune system in the body.

Raymond Arvidson, the James S. McDonnell Distinguished University Professor in Arts & Sciences, is awarded the prestigious Lester W. Strock Award for his work in the field of Earth and planetary sciences.



NOVEMBER

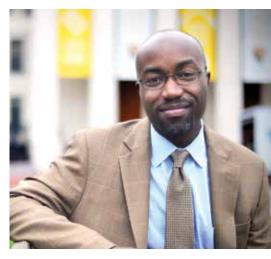
Carmon Colangelo is installed as the inaugural Ralph J. Nagel Dean of the Sam Fox School of Design & Visual Arts. The newly endowed position was established thanks to a \$5 million commitment from Washington University Trustee Ralph Nagel, BS '67, MArch '69, and his wife, Trish Nagel, JD '74.

The university announces the second major in financial engineering, an interdisciplinary academic program that combines courses in math, computer science, engineering, and finance for students pursuing a career in financial engineering. The program began in fall 2017. It is a joint effort between the School of Engineering & Applied Science and Olin Business School.

Ross Brownson, the Bernard Becker Professor at the Brown School and director of the Prevention Research Center, receives the American Public Health Association Award for Excellence for his work as a scholar, leader, and public health practitioner.

The university is ranked 10th in the list of Best Undergraduate Programs for Entrepreneurship by *Entrepreneur* magazine in partnership with *The Princeton Review*.

The university is connected to 27 of the 74 companies chosen to take part in Startup Connection, St. Louis' largest event focused on innovation and entrepreneurship. Those 27 companies either started at Washington University or have a founding member with a close connection to the university. The startups had an opportunity to pitch their products, services, and ideas to the business community, as well as compete for in-kind and cash prizes.



DECEMBER

Jason Q. Purnell, associate professor in the Brown School, is named the 2016 Person of the Year by the *St. Louis American*. Purnell is project director of For the Sake of All, the groundbreaking initiative on the health and well-being of African-Americans in St. Louis.

Olin Business School takes the top spot in a ranking of U.S. undergraduate business programs. Business education news outlet Poets & Quants announced Olin was number one in its debut survey of the top 50 undergraduate programs in the nation.

The Washington University women's soccer team beats Messiah College to claim the 2016 NCAA Division III National Championship in Salem, Virginia. The national championship is the first for the women's soccer team.

The Gephardt Institute for Civic and Community
Engagement has doubled the number of undergraduate
students benefitting from the two-year Civic Scholars
program, thanks to the generosity of business and civic
leaders Maxine Clark and Bob Fox. This program provides
students with skills and substance to foster lifelong
civic leadership. Seventy-two students over the course
of the couple's nine-year commitment will have the
opportunity to pursue their passion for public service as
Fox-Clark Civic Scholars.



ANUARY

Mary McKay, dean of the Brown School, is installed as the inaugural Neidorff Family and Centene Corporation Dean. She joined the university in July 2016. McKay's endowed position was made possible by a \$5 million commitment from Michael and Noémi Neidorff — leading patrons of cultural and educational institutions in St. Louis and beyond — and the Centene Charitable Foundation.

Washington University Libraries completes its digitization and reassembly of the civil rights documentary Eyes on the Prize, made possible by a National Historical Publications and Records Commission grant. Now, researchers, scholars, and the general public can view the complete series, produced by filmmaker and alumnus Henry Hampton, AB '61.

The university's competition for inventors is renamed the LEAP Inventor Challenge (Leadership in Entrepreneurial Acceleration Program). The competition is open to teams of faculty, postdoctoral students, staff, and graduate students, and it awards funding with the goal of advancing Washington University's intellectual property towards commercialization. The program was previously known as the Bear Cub Challenge.

The university and its partner universities in Greater China meet in Shanghai for a major conference, Forum for Greater China: An Aging Population.

Denise Stephens is appointed vice provost and university librarian. She previously was the university librarian at the University of California, Santa Barbara.

YEAR IN REVIEW 2017



FEBRUARY

Mitt Romney, former Republican presidential candidate and governor of Massachusetts, speaks at an Assembly Series talk that was part of the School of Law's 150th anniversary celebration.

The Veterans Health Administration contracts with the School of Medicine for \$3.8 million in a national effort to improve and standardize radiation therapy for U.S. veterans with cancer.

The university begins collaborating with the biopharmaceutical company Pfizer Inc. on research aimed at speeding the development of new drugs. The university is the first academic institution in the Midwest to join Pfizer's Centers for Therapeutic Innovation's collaborative network.



MARCH

The Sam Fox School of Design & Visual Arts' Alberti Program: Architecture for Young People is selected by the American Institute of Architects (AIA) and the AIA Office of Diversity and Inclusion as the 2016 honoree of the AIA Diversity Recognition Program. Launched in 2006, the Alberti Program is a tuition-free educational outreach initiative for St. Louis students ages 8-15 to explore architecture and design.

Founded in 1969 as a program, African and African-American Studies (AFAS) becomes a full department. AFAS now will be better positioned to set curriculum, drive hiring decisions, and diversify the types of scholarship done. "This has long been a dream for all of us connected with African and African-American Studies." said inaugural chair Gerald Early, the Merle Kling Professor of Modern Letters.

Anthony J. Azama is named the John M. Schael Director of Athletics at the university. He previously was the senior associate athletics director for external operations at Columbia University in New York.



APRIL

Jennifer K. Lodge, vice chancellor for research and the holder of a patent for virus-resistant potato plants, is named a fellow of the National Academy of Inventors.

The inaugural cohort of the College Prep Program at Washington University graduates from the program. The College Prep Program prepares low-income, first-generation high school students for college. All graduating members of the program have been accepted into colleges across the nation. In total, the cohort has received more than \$4 million in scholarship offers. Five students will be attending Washington University, which will provide students financial support through its College Prep Scholarship.

Christopher Stark, assistant professor of music in Arts & Sciences, is selected for a prestigious fellowship from the John Simon Guggenheim Memorial Foundation. The fellowship supports his work on composing a chamber opera inspired by Dorothea Lange's Depression-era photographs of rural poverty.



MAY

Best-selling author and Pulitzer Prize-winning journalist Anna Quindlen addresses the Class of 2017 at the 156th Commencement.

The women's track and field team sweeps both the 2017 NCAA Division III Indoor and Outdoor Track & Field National Championships.

The ceremonial groundbreaking for the transformation of the east end of the Danforth Campus is held May 5 to recognize the generous donors who made the project possible and to mark the planned start of construction on May 22. The east end transformation project encompasses 18 acres of the Danforth Campus, beginning at the foot of Brookings Hall and continuing east to Skinker Boulevard.

Four university scientists are elected to the National Academy of Sciences, considered one of the highest honors accorded a U.S. scientist or engineer. They are Fiona Marshall, the James W. and Jean L. Davis Professor, and Henry L. "Roddy" Roediger III, the James S. McDonnell Distinguished University Professor, both in Arts & Sciences; and L. David Sibley, the Alan A. and Edith L. Wolff Distinguished Professor of Molecular Microbiology, and David Van Essen, the Alumni Endowed Professor of Neuroscience, both at the School of Medicine.



JUNE

One of Taiwan's leading public research universities, National Chiao Tung University, becomes the 33rd partner of the McDonnell International Scholars Academy.

The university's McDonnell Genome Institute receives \$10 million from the National Heart, Lung and Blood Institute to sequence the DNA of people from diverse ethnic backgrounds in an effort to identify the genetic roots of chronic obstructive pulmonary disease and other lung disorders.

The university is one of 24 schools selected to receive \$1 million grants as part of a new Howard Hughes Medical Institute initiative to help colleges and universities foster success in science for all students, especially underrepresented ethnic minorities, first-generation college students, and working adults with families.

Net operating results were \$175 million in 2017. Operating revenue increased by \$192 million, or 7 percent, with the largest contributions coming from patient care, research, and unendowed gifts. Operating expenses rose 6 percent resulting primarily from essential mission costs of instruction, which includes patient care and research. Nonoperating activities resulted in income of \$562 million due primarily to strong investment performance.

In fall of 2016, the university welcomed the largest undergraduate class in its 163-year history. The growing enrollment and modest rise in undergraduate tuition rates resulted in an overall increase in gross tuition and fees revenue of 4 percent. The university's financial support of students grew to \$232 million in scholarships during fiscal year 2017. These awards represented more than 37 percent of gross tuition income.

During 2017, the university received \$283 million in gifts of cash, securities, and gifts-in-kind. Amounts reported in the financial statements including unendowed gifts, reported as operating revenue, and endowed gifts, reported as nonoperating activity, totaled \$252 million. The difference in the amounts is the result of adjustments made to comply with accounting rules. Endowed gifts, restricted for investment and future support, totaled \$68 million. The remaining gifts were available for operations.

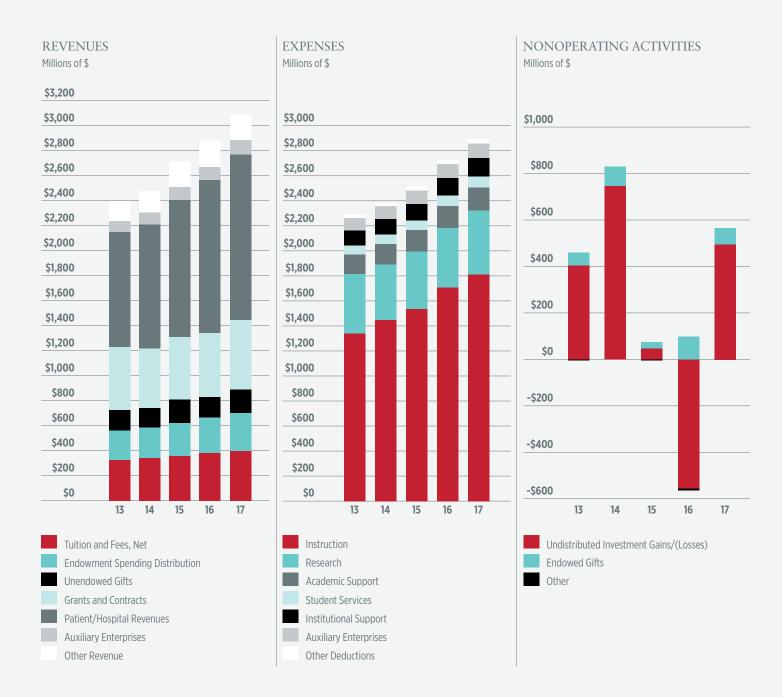
The university saw an 8 percent rise in research revenues as the U.S. government increased appropriations for research and development expenditures for the second year in a row. Washington University scientists were awarded two grants totaling \$34 million from the National Institutes of Health (NIH) as part of the Lifespan Human Connectome Project in which scans will be conducted throughout participants' lives to study how the brain changes over time. Supported by a \$23.6 million grant from the National Science Foundation (NSF) and in collaboration with the University of Pennsylvania, the university has been named a Science and Technology Center for Engineering MechanoBiology. The mission of this large-scale, complex research undertaking is to identify and harness the mechanical functions of both plants and animals at the cellular level. The NIH's National Heart, Lung and Blood Institute granted the university's McDonnell Genome Institute \$10 million to sequence DNA in an effort to identify the genetic roots of lung disorders. Multiple disciplines experienced growth both at the main campus and at satellite operations resulting in an 8 percent increase in patient service revenue. Revenues from affiliated hospitals for providing medical education, direction, and training were up 4 percent.

FINANCIAL SUMMARY

Thousands of \$

REVENUES	2013	2014	2015	2016	2017
Tuition and Fees, Net	324,899	339,760	356,193	380,670	393,487
Endowment Spending Distribution	235,697	247,509	266,217	286,558	305,590
Unendowed Gifts	162,719	155,560	186,294	161,051	183,300
Grants and Contracts	507,340	474,614	497,955	513,194	553,618
Patient/Hospital Revenues	915,336	992,705	1,096,609	1,218,878	1,311,425
Auxiliary Enterprises	88,719	92,755	100,133	106,270	115,768
Other Revenue	158,422	169,185	204,023	210,001	205,167
Total Revenues	2,393,132	2,472,088	2,707,424	2,876,622	3,068,355
EXPENSES	2013	2014	2015	2016	2017
Instruction	1,342,767	1,446,087	1,537,685	1,704,956	1,812,306
Research	471,609	447,065	457,573	474,337	507,786
Academic Support	155,425	161,284	168,241	175,261	185,692
Student Services	73,140	76,077	78,450	82,444	88,918
Institutional Support	120,018	122,968	129,800	139,263	146,386
Auxiliary Enterprises	100,413	101,880	109,598	112,900	115,088
Other Deductions	24,438	27,073	27,536	30,416	37,237
Total Expenses	2,287,810	2,382,434	2,508,883	2,719,577	2,893,413
Net Operating Results	105,322	89,654	198,541	157,045	174,942
NONOPERATING ACTIVITIES	2013	2014	2015	2016	2017
Undistributed Investment Gains/(Losses)	403,841	746,148	46,919	-551,785	492,733
Endowed Gifts	56,366	83,696	28,590	99,976	68,466
Other Nonoperating	-7,916	-1,586	-3,778	-9,122	1,257
Total Nonoperating Activities	452,291	828,258	71,732	-460,931	562,456
TOTAL RESULTS	557,613	917,912	270,273	-303,886	737,398

^{*} Net gains or losses on investments, excluding amounts used for endowment spending distribution



FISCAL YEAR 2017 FINANCIAL HIGHLIGHTS

Reaffirming its commitment to world-class education, patient care, and research, the university's expenditures in these areas continued to represent more than 80 percent of all expenses. Instruction expenditures, which include patient care, grew 6 percent in 2017, while research costs rose 7 percent. Academic support and other administrative costs were carefully monitored, increasing 6 percent but decreasing as a percentage of total costs.

Revenue from auxiliary enterprises rose 9 percent in 2017. The opening of the new residential facility, Umrath House, coupled with slightly higher room-and-board rates, contributed to the growth in operating revenue. The university continues to restore historic residential buildings in the areas immediately surrounding the campuses, providing housing to the university community and general public that positively impacts auxiliary operations. As a result of the investment in exceptional living and dining options, the university continues to be ranked among the nation's top college residential and dining facilities by numerous industry publications.

During 2017, the university began one of the most significant capital projects in the history of the Danforth Campus: transformation of the east end. Through the generosity of donors and the use of operating funds, construction began on the transformation immediately after Commencement this past spring. The comprehensive plan includes new academic facilities in support of the university's mission, values, academic excellence, and service to society. Expansive green space will connect the university community and visitors to campus in new and exciting ways. The project includes expansion of the Mildred Lane Kemper Art Museum and construction of Anabeth and John Weil Hall, the new front door to the Sam Fox School and an interdisciplinary hub for advanced scholarship, creative activity, innovative research, and bold experimentation for a vibrant and diverse academic community; Henry A. and Elvira H. Jubel Hall, the future home to the Department of Mechanical Engineering & Materials Science, will provide infrastructure and research facilities to support collaboration among engineers and scientists in many disciplines; and James M. McKelvey, Sr. Hall, which will house the Department of Computer Science & Engineering and will support the university's growing initiatives in data science. The Gary M. Sumers Welcome Center will receive campus visitors with sweeping views of Brookings Hall and Tisch Park, and will provide a first-class arrival experience to all who come to campus. The Craig and Nancy Schnuck Pavilion will house the university's Office of Sustainability and accommodate services needed to support the expanded activity on the east end, such as dining facilities, meeting rooms, and bicycle parking. Ann and Andrew Tisch Park will connect the new buildings and landscape elements while providing a lasting green space for the enjoyment of the entire university community and its visitors. In addition, Arts & Sciences is embarking on a multiphase project to create new research and teaching facilities for the sciences. In its initial phase, Bryan Hall, originally built in 1965, will be repurposed as the new home of the Department of Chemistry. The comprehensive renovation will include the addition of 25,000 square feet of new research space.

Total Undergraduate Grants and Scholarships Fiscal Years 2011–2017

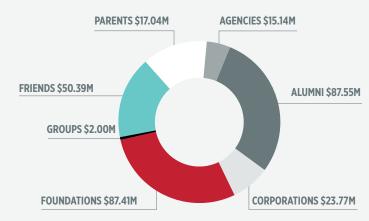






At the Washington University Medical Center, business units began moving into the Mid Campus Center in December 2016. The 12-story office building serves as an administrative building for the medical school and Barnes-Jewish and St. Louis Children's hospitals. Other phases of the multiyear Campus Renewal Project continued, including relocation of clinical office spaces, renovations of the Becker Medical Library, a 1,200-foot pedestrian walkway connecting the main hospital complex to secure parking, and the reconstruction of the intersection at Kingshighway and Forest Park Parkway providing improved safety and access for vehicles and pedestrians to the medical center. In St. Charles County, Siteman Cancer Center opened a newly expanded and renovated outpatient facility. The expansion nearly doubles the facility's size to 37,000 square feet and provides space for an increase in on-site medical oncologists, exam rooms, chemotherapy infusion chairs, and radiation oncology rooms. The center added two state-of-the-art linear accelerators that offer a wide range of treatment capabilities.





Total Giving to Washington University: Historical Results



FISCAL YEAR 2017 ENDOWMENT

Washington University's endowment supports the core university missions of teaching, research, and patient care. Generous supporters have funded endowments for student scholarships, professorships, research, libraries, academic centers, and capital projects. In addition, unrestricted endowments provide income to supplement tuition, grants, patient revenue, and gifts in the general operating budget.

Washington University's Board of Trustees has delegated oversight for endowment investment policy to the Washington University Investment Management Company (WUIMC) Board of Directors. Operating as a division within the legal framework of the university, WUIMC is led by the chief investment officer, who is assisted by a professional staff and is responsible for the implementation of investment strategy, hiring and management of investment managers, and all other day-to-day investment responsibilities. The WUIMC Board also is responsible for the endowment spending policy and the establishment of the annual spending rate.

The endowment returned 11.3 percent in fiscal year 2017, driven primarily by strong global equity market performance. The endowment's emerging market and developed market equity returns were up 21.5 percent and 19.6 percent, respectively. The investment team has been building, broadening, and upgrading allocations to private equity, venture capital, and real estate as part of a focused effort to enhance longterm outcomes. This is a multiyear process that can produce short-term headwinds to performance and was the case this fiscal year. Fixed income and less directional investments were also a drag on performance but are an essential part of the longterm portfolio as they provide financial support, stability, and liquidity during more challenging market environments.

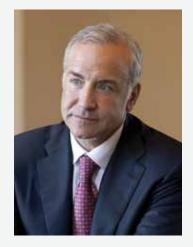
The endowment was valued at \$7.2 billion as of June 30th, reflecting an increase of \$688 million from the prior year end value. The growth in the endowment was a result of investment gains of \$723 million, total gifts to the endowment of \$70 million, and other net transfers of \$201 million. These gains were partially offset by spending distributions to the university totaling \$306 million.

SPECIAL ANNOUNCEMENT — NEW CHIEF INVESTMENT OFFICER



"It's an honor to join such a prestigious institution, and I look forward to working with the board, administration, and investment team to support the outstanding mission of Washington University in St. Louis."

-Scott Wilson



Eric Upin, Interim CIO

Scott Wilson, CIO

Late last year WUIMC's Board initiated a global search for a new chief investment officer. Recognizing the significant role investment returns play in achieving the university's aspirations and goals, WUIMC's board members devoted substantial time, effort, and thought in the search for the next leader of the Washington University endowment. The 10-month search focused on identifying an outstanding and thoughtful investor with strong leadership skills and a stewardship mindset.

On September 7, 2017, it was announced that Scott L. Wilson was appointed chief investment officer at WUIMC, effective November 27. Wilson, who previously served as chief investment officer at Grinnell College, is a compelling and talented investor with impressive performance results and depth of experience. WUIMC's Board is enthusiastic about his appointment and excited to work with him as he leads and manages the university's endowment portfolio.

Eric Upin, AB '83, trustee and WUIMC board member, has served as interim chief investment officer and chaired the CIO search committee. Upin's capable leadership and substantial commitment of time allowed the endowment's investment program to operate without interruption throughout the search process. He remains committed to leading the investment office until Wilson assumes his new position and will remain available as an invaluable resource during the leadership transition. The university community is grateful to Upin for generously stepping into the interim role and leading WUIMC so capably during his tenure.

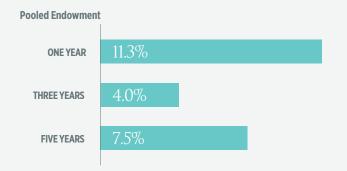
Endowment Millions of \$ \$8,000 \$7,000 \$6,000 \$5,000 \$1,000 \$1,000 \$0 \$1,000

Asset Class Allocation

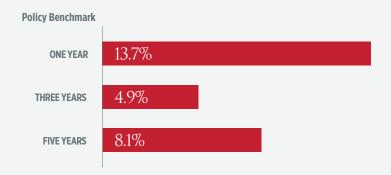
ALLOCATION	ASSET CLASS
34%	DEVELOPED MARKET EQUITY
11%	EMERGING MARKET EQUITY
17%	PRIVATE EQUITY AND VENTURE CAPITAL
8%	REAL ESTATE AND NATURAL RESOURCES
24%	HEDGED STRATEGIES
6%	FIXED INCOME AND CASH
100%	TOTAL

As shown in the table above, the endowment is diversified among six broad asset classes. The endowment continued to have significant exposure to equities and other equity-like assets at year-end, consistent with its long-term nature.

Annualized Endowment Returns for periods ending June 30, 2017



The table above shows the longer-term performance of the pooled endowment (which comprises 98 percent of the total endowment) as well as the return for the most recent fiscal year. Over the three years ending June 30, 2017, the endowment earned an annualized return of 4.0 percent, while annualized performance over the trailing five-year period was 7.5 percent. The five-year endowment performance is more consistent with long-term return expectations. Valuations within the Private Equity and Venture Capital allocation were the primary drivers of underperformance versus the policy benchmark.



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University Investment Management Company

lda H. Early Secretary to the Board of Trustees

- ¹ Resigned November 30, 2016
- ² Term Began December 2, 2016 ³ Term Ended December 2, 2016
- Deceased July 2, 2016
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 Effective January 1, 2017
- PA Parent of Washington University student during 2016–17

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