NJIT is on an unprecedented growth trajectory as detailed in 2020 Vision: A Strategic Plan for NJIT. Our current enrollment of 11,325 students will soon grow to more than 12,000. An additional 100 faculty members have been hired over the past four years; 14 research and teaching labs have been upgraded, and new construction as well as important renovations are ongoing.

An $86 million investment in the five-story Central King Building (CKB), a former public high school, is the first wave of a $300 million campuswide capital building program that is transforming teaching, research and community life at NJIT. Three new buildings are in various stages of completion: a 24,500-square-foot life sciences and engineering building; a 981-space parking garage; and a 200,000-square-foot multipurpose Wellness and Events Center with a 4,500-seat conferencing space that transforms into a 3,500-seat arena, multiple high-tech meeting rooms, an indoor pool, track and turf field, and social spaces.

While serving different sectors of campus life, these facilities have a common purpose: to promote a rich, collaborative climate that encourages students, faculty, alumni and partners from industry, academia and government to share their experiences and ideas, generate new ones and successfully develop them. It was the state-initiated and voter-approved “Building Our Future Bond Act” that enabled this campus transformation.

During the past year, we celebrated the transformative vision and generosity of two alumni by naming the Martin Tuchman School of Management and the Ying Wu College of Computing Sciences. Both gentlemen are international leaders in innovation and entrepreneurship whose philanthropy supports high-achieving students, faculty, research and development.
We, at NJIT, put our students at the center of all we do, from our improving graduation rate and our first Fulbright scholar to those who performed 45,000-plus hours of community service this year. We are proud of NJIT students and their significant achievements. Our students, faculty, staff, alumni, Trustees and Overseers have been integral in the planning of the campus transformation.

NJIT will continue to be a catalyst for the development of the highly needed STEM workforce, and the science and technology driven economic development of Newark, the state and nation. I invite you to see how we are honoring our past campus planning while visioning and executing for our future.

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**NJIT ECONOMIC IMPACT ON NEW JERSEY - $1.74 BILLION**

This economic impact analysis, based on the work of Econsult Solutions Inc., is organized into five sections that align with the 2020 Vision - A Strategic Plan for NJIT. The “impact categories” highlight the contributions of each strategic priority area listed at right:

#### STUDENTS

11,325 students enrolled in STEM fields. Demand for NJIT graduates exceeds supply.

#### LEARNING

50 undergraduate and 59 graduate degree programs, including 19 doctoral degree programs, encompassing learning outside the classroom through undergraduate research, social service, professional internships, co-op employment, study abroad and a wide range of extracurricular activities.

#### SCHOLARLY RESEARCH

100 recent full-time hires, including 68 faculty and 32 lecturers to continue to raise NJIT’s profile as a national and international leader in basic and applied STEM research.

#### COMMUNITY ENGAGEMENT

45,221 community-service hours by NJIT students in 2015, benefitting 260 nonprofit agencies.

#### INVESTMENTS

2,200,000-sq.-ft. increase in NJIT’s physical plant as the institution continues to grow its human, physical and technological resources.
On Nov. 12, 2015, more than 300 individuals witnessed the groundbreaking of the Wellness and Events Center (WEC), a $102 million building that is the centerpiece of the university’s campaign to revamp the campus. During the ceremony, NJIT announced the extension of the NJIT NEXT Campaign, the goal of which is to raise an additional $50 million. AECOM, the global engineering firm founded by Albert Dorman ’45, ’99 HON, is leading construction of the new facility.

Once completed in the fall of 2017, the 200,000-square-foot building will be equal parts a fitness center, a study space, a gathering spot and a sports arena that will double as a conference and events center. WEC will offer students a place to stay fit; athletes a place to practice and play games; and the university a place to host on-campus events and professional conferences. A glass-walled front will give the campus a view inside and create a new focal point for the entire university community.

From left: Lenny Kaplan, assistant vice president and director for Athletics; Stephen P. DePalma ’72, chairman of the NJIT Board of Trustees; Joel S. Bloom, president of NJIT; and Charles Lubetkin ’53.
The Wellness and Events Center will complement the campus transformation and continue to enhance NJIT’s reputation as a nationally recognized STEM university.
In order to meet the needs of the growing student and faculty populations as well as members of NJIT’s 90 business incubator companies, the new Science and Technology Park-Parking Facility was completed in August 2016. Located adjacent to NJIT’s Enterprise Development Center, the safe, state-of-the-art structure provides seven parking floors plus a surface lot of 981 parking spaces for students, faculty, staff, visitors and members of the incubator companies.

Moreover, PSE&G is providing five electric vehicle charging stations as part of a pilot program. Additionally, the university is pursuing Parksmart Certification through the Green Parking Council that helps parking structures to reduce environmental impact; increase energy efficiency and performance; manage parking spaces efficiently; promote alternative mobility options; and strengthen community relationships.
NJIT was awarded $20 million in capital funding from the State of New Jersey to renovate classrooms and laboratory spaces. Chief among the building projects will be the creation of Makerspace at NJIT, a 9,500-square-foot facility that will heed the call for innovation, invention and production in today’s burgeoning science, technology and engineering economy. One of the largest educational spaces of its kind, Makerspace will feature 24-hour access to state-of-the-art equipment and the university’s vast resources for design, prototyping, testing and research initiatives. NJIT students and faculty, along with small companies and manufacturers, will have opportunities for multidisciplinary collaboration in areas that include 3-D printing, general fabrication, computer-network-control and general machining, industrial metrology, wood and metalwork, advanced manufacturing and electronics assembly. Makerspace at NJIT will not only foster a community of innovation and partnership, it also will help prepare the STEM workforce of tomorrow and bolster New Jersey industry.
On Oct. 1, 2015, NJIT hosted a groundbreaking ceremony for the new Life Sciences and Engineering Building. The four-story facility, which will be appended to the existing Otto H. York Center for Environmental Engineering and Science and will house shared laboratories and meeting spaces as well as IT infrastructure and cutting-edge scientific instruments, is designed to promote collaboration and convergence within fields ranging from bioengineering and the biological sciences to electrical engineering and health care technologies. The long-term goal is to devise new applications in clinical health care, therapeutic interventions and pharmaceutical drug development with a particular focus on biotechnology, biosensors and medical devices and nanotechnology.

From left: Kim Guadagno ’10 HON, Lieutenant Governor, State of New Jersey; Joel S. Bloom, president of NJIT; L. Grace Spencer, Assembly Deputy Speaker, State of New Jersey; Paul A. Sarlo ’92, ’95, Deputy Majority Leader, State of New Jersey; Thomas H. Kean, Jr., Republican Leader and State Senator, State of New Jersey; M. Teresa Ruiz, Assistant Majority Leader, State of New Jersey; Philip K. Beacham, NJIT Board of Trustees; Joseph M. Kyrillos Jr., New Jersey State Senator; Marjorie A. Perry ’05, Co-Executive Vice Chair, NJIT Board of Overseers; and Dr. Vincent L. DeCaprio ’72, Co-Vice Chair, NJIT Board of Trustees.
Wielding powerful instruments that allow them to peer deep into the Sun, NJIT researchers remain at the forefront of solar science with a host of recent discoveries that begin to untangle long standing mysteries around the mechanics of energy transfer and particle acceleration and, more dramatically, the massive bursts of radiation released by solar storms. The university’s recently completed solar-dedicated radio telescope, the Expanded Owens Valley Solar Array (EOVSA), is a key element in their toolbox. While scientists have long observed the Sun through a broad range of wavelengths, they have been unable to see some activities in detail, including those related to particle acceleration. Radio telescopes, which capture tens of thousands of images per second through various frequencies, are providing reams of new information.

Prior to EOVSA's completion, NJIT scientists gathered data from another radio telescope that shed light on an elusive structure known as a termination shock that is believed to play a key role in converting released magnetic energy from flares into kinetic energy in accelerated particles. They were able to image the shock and its time evolution during a long-lasting solar flare, demonstrating its role in accelerating particles. Their findings were published late last year in Science magazine. EOVSA will continue to study such events, while also imaging other parts of the flare that occur at different frequencies and using the radio spectrum to measure the larger flare environment for greater understanding of how, for example, the accelerated particles lead to the heating that makes flares appear bright.

On May 9, 2015, NJIT’s 1.6-meter New Solar Telescope (NST) at Big Bear Solar Observatory (BBSO)—currently the highest-resolution solar telescope in the world—captured the highest-ever spatial resolution images of a rare planetary event known as the Transit of Mercury. This passage, which occurs just over a dozen times a century, is visible from Earth only when Mercury is positioned directly between Earth and the Sun and the two planets’ orbits are directly aligned. NJIT compiled a time-lapse video composed of extremely high-resolution images of the transit taken from the university’s NST and from NASA’s Solar Dynamics Observatory (SDO) in space, a joint mission with the Harvard-Smithsonian Center for Astrophysics. The movie—with observations taken every 12 seconds—begins with images of the Sun as viewed from NASA’s SDO in extreme ultraviolet light from space. Midway through Mercury’s transit, the Sun became visible at NST’s location in California. The telescope’s adaptive optics system was able to improve the clarity of the images by locking onto the dark disk of Mercury and correcting for turbulence in the Earth’s atmosphere.
A SIGNIFICANT DISCOVERY

NJIT researchers have identified unique anatomical features in a species of blind, walking cavefish in Thailand that enable the fish to walk and climb waterfalls in a manner comparable to tetrapods, or four-footed mammals and amphibians. The discovery of this capability, not seen in any other living fishes, also has implications for understanding how the anatomy that all species need to walk on land evolved after the transition from finned to limbed appendages during the Devonian period, which began some 420 million years ago. This research was reported in a March 24 *Nature Scientific Reports* article, “Tetrapod-like pelvic girdle in a walking cavefish,” by Brooke Flammang, Daphne Soares, Julie Markiewicz and Apinun Suvarnaraksha. Flammang and Soares, assistant professors in the NJIT Department of Biological Sciences, were assisted with the research by Markiewicz, an NJIT post-baccalaureate research volunteer in the Flammang lab at the university. Investigator Suvarnaraksha is a member of the Faculty of Fisheries Technology and Aquatic Resources of Maejo University in Thailand.

NSF CAREER AWARD TO SOLVE THE MYSTERY OF MERCURY

Assistant Professor Alexei Khalizov, Department of Chemistry and Environmental Science, was awarded a five-year CAREER grant totaling $670,000 from the National Science Foundation (NSF) to advance his investigation of the atmospheric mystery of mercury. The work that Khalizov will pursue with this support promises to yield critical knowledge about the environmental impacts of this highly toxic element. The chemical transformation of mercury released by combustion that takes place in the atmosphere as a precursor to dangerous contamination of soil and water is not clearly understood. The NSF’s Faculty Early Career Development (CAREER) Program offers the foundation’s most prestigious awards in support of younger faculty who, in building their academic careers, have demonstrated outstanding potential as both educators and researchers.

ENERGIZING MULTIDISCIPLINARY EDUCATION AND RESEARCH

NJIT faculty are advancing science and technology on numerous frontiers to increase basic knowledge and improve the quality of life. The university is augmenting its research capacity through various means, including the addition of around 20 new faculty members per year through 2020, as delineated in NJIT’s strategic plan, 2020 Vision, and a determined—and thus far successful—effort to increase external funding for research and development. During the past year alone, faculty members have been recognized nationally and internationally for research that spans evolutionary biology, biomedical engineering, environmental science and solar physics.
On Nov. 16, 2015, NJIT hosted the inaugural Research Centers and Laboratories Showcase, featuring the work of more than 40 centers and laboratories. The event reflected the steady, strategic growth in the university’s research enterprise, much of it collaborative and multidisciplinary. Grace Peng, Ph.D., program director for the Division of Discovery Science & Technology at the National Institute of Biomedical Imaging and Bioengineering, a division of the National Institutes of Health, was the keynote speaker.

Julian Goldman, M.D., the medical director of biomedical engineering for Partners HealthCare, an anesthesiologist at Massachusetts General Hospital and the director of the multi-institutional Program on Medical Device Interoperability, was the keynote speaker for the inaugural President’s Forum, a featured event in the Albert Dorman Honors College Colloquium Series. The research showcase provided the wider NJIT community with a window to the pioneering, applications-focused scholarship taking place on campus, as well as the opportunity to form new research partnerships and generate new ideas. Dr. Goldman’s talk focused on major initiatives, including technology development, in two key areas: life sciences and engineering and data science and technology.

In the second part of the forum and showcase, new faculty members presented their work in research areas ranging from next-generation construction materials, to the use of artificial intelligence in robotic manufacturing, to the impact of human interactions and relationships in accounting practices. The 18 new faculty members and 20 research teams currently or recently funded by NJIT faculty seed grants—many of them interdisciplinary collaborations between fields as diverse as architecture and computer science—presented their research on posters displayed throughout the Campus Center Gallery.

211 U.S. PATENTS IN 2015

97 pending U.S. patents

$110 million total research expenditures with 40 specialized labs and research centers

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Julian Goldman, M.D.,
The renovation of the 200,000-square-foot Central King Building (CKB) is the first wave of a $300 million capital building program that is transforming teaching at NJIT. Over the next year and a half, the Center for Innovation and Discovery, a space programmed to bring together students from various disciplines as well as faculty and partners from industry, will be located on the top two floors of the building. The floors accessed from a new grand entry stairway and a sunken court will house areas for students that include open and closed study lounges, math and science centers, a writing center and new classroom models, including a technology-intensive room with roundtables, each with a flat-panel screen, where groups of nine students or so can work collectively on problems. A suite of biology labs houses scientific instruments such as a fish “treadmill,” a large tank with simulated ocean currents, and a growing collection of species. To encourage students and faculty to share and explain their ideas, the public spaces of the building are covered with writing surfaces; enclosing some of the smaller rooms with glass walls gives passers-by a view of their peers’ creativity.

STUDENTS HAVE ACCESS TO STATE-OF-THE-ART TECHNOLOGY IN A SUITE OF BIOLOGY LABS.
CAMPUS TRANSFORMATION

PREPARING FUTURE LEADERS IN CYBERSECURITY

NJIT is building a critical mass and increasing its visibility as a top university for future leaders in the field of cybersecurity. The National Security Agency (NSA) and Department of Homeland Security (DHS) have designated NJIT as a National Center of Academic Excellence (CAE) in Cyber Defense Education through the 2020 academic year. NSA and DHS jointly sponsor CAE with the goal to reduce vulnerability in the national information infrastructure by promoting higher education and research, and producing a growing pipeline of professionals with information assurance expertise in various disciplines. This designation helps reaffirm NJIT’s commitment to interdisciplinary education and research that ensures the protection of our national information infrastructure by training more scientists and technologists who can contribute to reducing vulnerabilities in our vast networks and securing our systems.

Reza Curtmola, an associate professor of computer science at NJIT, spearheaded the certification effort and conducts research in applied cryptography and security of cloud computing and wireless networks. With the help of Cristian Borcea, professor and chair of the Computer Science Department, Curtmola used the Ying Wu College of Computing Sciences’ Master of Science in Cyber Security and Privacy program—and more than 50 courses across multiple departments—to satisfy the certification requirements. Further cementing NJIT’s status as a pioneer in the education and advancement of proactive cyber defense, Curtmola and several of his colleagues established the New Jersey Center for Cybersecurity, an NJIT-based facility focused on cybersecurity research.

DARING TO DREAM: GIRLS WHO CODE GRADUATE FROM SUMMER IMMERSION PROGRAM

Forty young women from New Jersey area high schools took over NJIT’s Albert Dorman Honors College in August 2015 to satisfy their curiosity in JavaScript, Python, SQL, CCS and HTML—and forged a sisterhood in the name of code along the way. Founded by Reshma Saujani in 2012, Girls Who Code engages a network of experts in technology, education, entrepreneurship and engineering to advise the organization and support its work to empower young women to pursue opportunities in technology and engineering. During the seven-week program, in addition to taking part in College of Architecture and Design workshops and a mentoring session and workshop at the Murray Center for Women in Technology at NJIT, which co-hosted the program, the young women received intensive instruction in computer science, robotics and mobile development; were exposed to demos, workshops and presentations from female engineers and entrepreneurs; went on field trips to technology companies; and were mentored by top female executives and entrepreneurs.
TRANSFORMING TEACHING
NJIT’s Albert Dorman Honors College has formed a partnership with the Elisabeth Haub School of Law at Pace University, in which students can study three years in the pre-law curriculum at NJIT and three years at Pace Law. After six years, students will have both an NJIT bachelor’s degree and a law degree from Pace Law. The accelerated program is open to incoming Honors College freshmen and first-year students.

NJIT is helping advance a leading-edge initiative to provide classroom teachers and administrators with professional learning resources essential for guiding students toward achieving goals stipulated for the state’s public schools. The New Jersey Department of Education (NJDOE) requested that NJIT join in developing NJDOE’s Blended Learning modules by utilizing the university’s digital learning platform for professional development known as the Online Professional Learning Exchange (OPLE). This partnership with the NJDOE reflects NJIT’s unique role at the forefront of digital learning and STEM education in New Jersey.

Funding from the NJDOE, initially $1.2 million, supported building the statewide OPLE blended-learning community based on a decade of previous work by NJIT to develop online educational resources. The OPLE developmental work at NJIT was led by James Lipuma, a member of the Humanities Department and director of the university’s Curriculum, Learning and Assessment Studies project, an initiative with goals for online education that anticipated those of the recently launched NJDOE effort. NJIT now is participating in the creation of a powerful tool for sharing that could help meet the highest standards for educational achievement in many subjects across the country.

SCHOOL OF ART + DESIGN AWARDED NASAD ACCREDITATION
The School of Art + Design recently obtained accreditation from the National Association of Schools of Art and Design (NASAD). All three undergraduate four-year programs (Bachelor of Arts in Digital Design, Bachelor of Science in Industrial Design, and Bachelor of Arts in Interior Design) in the School of Art + Design were accredited. The visiting team described the efforts and impact of the school as “vibrant and commendable.” This achievement completes the suite of accreditations for the College of Architecture and Design in the last two years: CIDA (Interior Design); NAAB (Architecture); and NASAD (Art + Design).

ADVANCING STEM EDUCATION
NJIT is helping advance a leading-edge initiative to provide classroom teachers and administrators with professional learning resources essential for guiding students toward achieving goals stipulated for the state’s public schools. The New Jersey Department of Education (NJDOE) requested that NJIT join in developing NJDOE’s Blended Learning modules by utilizing the university’s digital learning platform for professional development known as the Online Professional Learning Exchange (OPLE). This partnership with the NJDOE reflects NJIT’s unique role at the forefront of digital learning and STEM education in New Jersey.

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BRIDGING THE GAP
NJIT is one of 15 universities to participate in the Building Recruiting and Inclusion for Diversity (BRAID) initiative, a three-year effort formed by Harvey Mudd College and the Anita Borg Institute to expand outreach to high school teachers and students to modify introductory computer science courses and broaden participation among women and students of color. Already approved for a third year of funding, NJIT will receive $30,000 per year to implement programs that offer creative, interdisciplinary approaches to the modern discipline of computer science and provide data for a research study documenting the progress.

FAST TRACK TO LAW SCHOOL
NJIT’s Albert Dorman Honors College has formed a partnership with the Elisabeth Haub School of Law at Pace University, in which students can study three years in the pre-law curriculum at NJIT and three years at Pace Law. After six years, students will have both an NJIT bachelor’s degree and a law degree from Pace Law. The accelerated program is open to incoming Honors College freshmen and first-year students.
“Monument Man” Harry Ettlinger, who received a B.S. in mechanical engineering from Newark College of Engineering in 1950, was awarded a Congressional Gold Medal in October 2015 at a ceremony in Emancipation Hall on Capitol Hill. At the end of World War II, Sgt. Ettlinger along with the other members of the Army’s Monuments, Fine Arts and Archives (MFA&A) section, were assigned to recover and repatriate innumerable works of art looted by the Nazis, as depicted in the motion picture Monuments Men. In recent years, the MFA&A section and Ettlinger’s role have received wide attention through the efforts of philanthropist Robert Edsel, author of The Monuments Men: Allied Heroes, Nazi Thieves and the Greatest Treasure Hunt in History and Rescuing Da Vinci.
For the first time in its 27-year history, NJIT’s School of Management now bears a formal name—Martin Tuchman School of Management. The official naming ceremony and colloquium in honor of distinguished alumnus, philanthropist and entrepreneur Martin Tuchman ’62 was held March 3, 2016 and was attended by more than 300 members of the NJIT community, including President Emeritus Saul K. Fenster. Tuchman is the chief executive officer of Kingstone Capital V, an investment firm with holdings in real estate, banking and international shipping. He also serves as chairman of The Tuchman Foundation, an umbrella company for the Tuchman Foundation and Parkinson’s Alliance, which works closely with Parkinson’s research organizations that seek grants and approval from the National Institutes of Health.

Steve Adubato, anchor at Thirteen/WNET (PBS) and author of Lessons in Leadership, served as moderator for “A New Era of Business with the Power of STEM,” which covered topics including strengths of diverse interdisciplinary teams and needed qualities in the new business era, such as emotional intelligence, collaboration, active listening and strong communication skills. Colloquium panelists included Tony Crincoli ’86, executive director and head of global engineering services, Bristol-Myers Squibb; Bill Quinn, retired vice president, Johnson & Johnson; Misha Riveros, former general manager, GE Plastics, Latin America; AJ Sutera, executive vice president and chief information and technology officer, The FinishLine; and Kevin Uckert, partner, Northeast market sales leader, Mercer. The day’s events concluded with a reception and faculty/student research and innovation showcase.

NJIT awarded more than 2,700 bachelor’s, master’s and doctoral degrees May 17, 2016, at the 100th Commencement ceremony at the Prudential Center in Newark. Honorary degrees were awarded to Kathleen Wielkopolski (second from left), chair emerita of the NJIT Board of Trustees and retired executive vice president and chief financial officer of The Gale Company; Ying Wu ’88 (far right), chairman of the China Capital Group; and Jeffrey Kleinrock Ph.D. (second from right), distinguished professor of computer science at UCLA, who also was the commencement speaker.

John Seazholtz ’59 (left), chairman of the NJIT Board of Overseers, joined President Joel S. Bloom in presenting the 2015 Overseers Excellence in Research Prize and Medal to Distinguished Professor of Physics Haimin Wang. A leading authority on fluctuations of the Sun’s magnetic field that give rise to solar flares and space weather, Wang is the chief scientist for NJIT’s Big Bear Solar Observatory and director of the Space Weather Research Laboratory at NJIT’s Center for Solar-Terrestrial Research. He had a key role in NJIT’s acquisition of Big Bear from Caltech in 1997 and its subsequent research efforts.
For the first time since it was established, NJIT’s College of Computing Sciences (CCS) bears the name of a universally revered tech entrepreneur who credits his NJIT educational experience with sparking an illustrious career in telecommunications. On May 16, 2016, members of the NJIT community assembled in the Guttenberg Information Technologies Center, where CCS was renamed in honor of Ying Wu, who graduated from NJIT in 1988 with an M.S. in electrical engineering.

Wu currently develops advanced wired and wireless products in his native China. He also is the chairman of China Capital Group; a consultant to the Overseas Chinese Affairs Office of the State Council; senior internet consultant to the government of Shenzhen City; and recently, he helped organize the NJIT Alumni Association’s Regional Club in China, and was elected as its first chair.

The naming ceremony followed a President’s Forum featuring Leonard Kleinrock, distinguished professor of computer science at UCLA, who gave a presentation on “A Brief History of the Internet.” Kleinrock, who received an honorary Doctor of Science at NJIT’s 100th Commencement ceremony May 17, 2016, discussed how the UCLA Host computer became the first node of the internet in September 1969. Following Kleinrock’s presentation, a six-person panel chronicled the 40-plus years of computing at NJIT and the university’s path-blazing success in transforming access to knowledge.

The New Jersey Innovation Institute (NJII), an NJIT corporation that applies the intellectual and technological resources of the university to challenges identified by industry partners, joined MetroLab Network, a network of 35 city-university partnerships focused on bringing data, analytics and innovation to local government. MetroLab Network was launched by 21 founding city-university pairings in September 2015 at the White House as part of the Obama administration’s Smart Cities Initiative. Members of the network research, develop and deploy technologies and policy approaches to address challenges facing the nation’s urban areas. Its city-university partnerships are relationships in which NJIT serves as a research and development arm, and the city serves as a test bed for technologies and policies.
NJIT President Joel S. Bloom was selected for the Air Force Chief of Staff’s civic leader program—one of only a few national university presidents ever requested to serve in such a role. Bloom joins about 30 business and civic leaders from across the nation. The Air Force Civic Leader Program is an Air Staff-level program whose membership is comprised of respected business and community leaders. The Air Force civic leaders are unpaid advisors, key communicators and advocates for Air Force issues. They advise the Secretary of the Air Force, Air Force Chief of Staff and Air Force senior leaders about how missions can best be accomplished and about public attitudes. The program also benefits NJIT by offering visibility, access to Air Force R&D and engagement of civic and business leaders from across the nation.

In November, the Research & Development Council of New Jersey named Bloom as Educator of the Year. In his acceptance speech, Bloom discussed how NJIT’s legacy of industry-driven innovation and academic excellence leverages the energy and entrepreneurial spirit of today’s students. Established in 1962, the council is dedicated to cultivating an environment supportive of the advancement of research and development in New Jersey.

Raymond Cassetta ’70, chair of NJIT’s Martin Tuchman School of Management Board of Visitors, was the honorary chairman for the third Cornerstone Society Recognition Brunch May 20, 2016. The annual event acknowledges donors whose consecutive annual gifts serve as the foundation for NJIT’s growth and help the university move forward with all of its commitments in education and research.

Owen Fitzgerald ’08 delivered the keynote speech at University Convocation Sept. 9, 2015. The annual event welcomed the Class of 2019 and recognized faculty and staff excellence. The university’s 132nd freshman class is the largest in NJIT history and the highest-achieving class based on SAT scores and other significant indices.

Scholarship recipients Jaelynne King ’16 and Raphael Roman ’16 described how the generosity of donors impacted their lives April 22, 2016, at the 28th annual Scholarship Brunch. Longtime donor Edward Cruz ’63 ’13 HON, who is recently deceased, was honored during the event with a tribute by his daughter Robin Cruz McClearn. In total, donors endow more than $3 million in scholarships that help more than 1,200 students.

Newark College of Engineering celebrated its continued commitment to advancing engineering education and recognized accomplished alumni and industry partners March 31, 2016, at the 18th annual Salute to Engineering Excellence. Peter J. Abitante ’90 (left), vice president of Implant Product Development at Stryker, and Brian G. Kiernan ’70 (middle), retired vice president and chief scientist of InterDigital Communications, LLC (pictured with Robert Cohen ’83, ’84, ’87), received the 2016 NCE Outstanding Alumnus Award. IEEE Executive Director E. James Prendergast (right) accepted the 2016 Outstanding Industry Partnership Award on behalf of his organization.

Virginia Sulzberger ’62, ’66, a consultant at Electric Power Systems and a member of NJIT’s Helen and John J. Hartmann Department of Electrical and Computer Engineering Industry Advisory Board, was inducted into the National Academy of Engineering in October. Academy membership honors those who have made outstanding contributions to “engineering research, practice or education, including, where appropriate, significant contributions to the engineering literature,” and to the “pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering, or developing/implementing innovative approaches to engineering education.”
An architectural design of the National Museum of Memory in Bogota, Colombia, created by College of Architecture and Design Associate Professor Maria Hurtado de Mendoza, won an international competition launched by the National Centre for Historical Memory in association with the Colombian Society of Architects. The project, a joint venture between Hurtado de Mendoza’s Madrid-based practice estudio.entresitio and the Colombian firm MGP, was selected from among 72 entries worldwide and is part of a government effort to honor the victims of the Colombian conflict and their path toward peace. Construction is slated to begin August 2016.

Somenath Mitra, a distinguished professor of chemistry and environmental science, and Atam Dhawan, a distinguished professor of electrical and computer engineering, were inducted into the National Academy of Inventors (NAI) as part of the Fifth Annual Conference of the NAI at the United States Patent and Trademark Office.

Yi Chen, associate professor and the Henry J. Leir Chair in Healthcare in NJIT’s Martin Tuchman School of Management, was named a recipient of a Google Faculty Research Award. Dr. Chen is the PI, and Songhua Xu, assistant professor of information systems, is the co-PI. The highly prestigious Google Research Awards are given to world-class faculty members at top universities around the world conducting groundbreaking research in 23 fields, including computer science, engineering, neuroscience and economics.

Louis Lanzerotti is a distinguished research professor at NJIT’s Center for Solar-Terrestrial Research and one of the country’s foremost researchers on space weather and its impacts on both space- and ground-based technologies. Late last year, Lanzerotti was the sole academic researcher invited to take part in the panel discussion “Space Weather: Understanding Potential Impacts and Building Resilience,” convened in Washington D.C. under the auspices of the Executive Office of the President of the United States and attended by scientists and engineers from academia and industry, as well as policymakers and elected officials. In April 2016, he headed back to Washington to take part in a follow-up symposium on emerging opportunities in the field of space weather for both basic science and practical applications sponsored by the Universities Space Research Association and the Space Policy Institute at George Washington University.

Stephen Zdepski, professor in the College of Architecture and Design, received an honorary commission of Kentucky Colonel by Governor Steven Beshear, State of Kentucky. The award is the highest honor bestowed by the Commonwealth of Kentucky. The Commission of Kentucky Colonel is given by the governor to individuals in recognition of noteworthy accomplishments and for their outstanding service to a community, state or the nation.
The circadian rhythms that harmonize our behavior with the daily cycle of light and dark, and with seasonal change, are among the most powerful physiological forces that we experience each day — forces that are experienced not only by other mammals, but also by many other living organisms. Although research has steadily added to knowledge about circadian behavior, our understanding is still far from comprehensive. Among the investigators working to advance what we know with new tools for modeling circadian processes at cellular and behavioral levels is Assistant Professor Casey Diekman, Department of Mathematical Sciences, who has been at work in this area since joining the NJIT faculty in 2013. Diekman has received substantial funding for the effort, which also could contribute to the overall success of the U.S. BRAIN (Brain Research through Advancing Innovative Neurotechnologies) Initiative. This funding includes a three-year grant of more than $233,000 that he received from the National Science Foundation (NSF) and a recent five-year continuing NSF CAREER grant, with $115,000 awarded to date.

Mengchu Zhou, a distinguished professor of electrical and computer engineering, received the 2015 Norbert Wiener Award for “fundamental contributions to the area of Petri net theory and applications to discrete event systems” at the 2015 IEEE International Conference on Systems, Man, and Cybernetics held in Hong Kong. Zhou is an expert in robotics and automation problems whose contributions include a better and more efficient way to help managers direct computer-controlled manufacturing systems by using mathematical modeling tools known as Petri nets. The Wiener Award was established in 1980 by the IEEE Systems, Man, and Cybernetics Society in memory of Norbert Wiener (1894-1964), an American mathematician and philosopher who taught mathematics at MIT.

Moshe Kam, dean of NJIT’s Newark College of Engineering, was selected to receive IEEE’s 2016 Haraden Pratt Award. One of the global engineering organization’s most prestigious honors, the award is bestowed annually by its board of directors for outstanding service to IEEE. Kam, a former president and CEO of the organization, was chosen for his “original and high-impact contributions to IEEE’s educational activities, expanding IEEE’s global reach and effectiveness” over the course of three decades. His efforts to promote engineering education cover a broad range, from introducing engineering to pre-university students to developing advanced continuing education programs for longtime practitioners.

Architectural historian and NJIT Distinguished Professor Zeynep Çelik was awarded the George Sarton Medal by the School of Engineering and Architecture of Ghent University. Multiple medals are awarded annually under the “Sarton” aegis, an honor bestowed upon outstanding historians of science in the international scholarly community.

Biomedical Engineering Professor Tara Alvarez, director of NJIT’s Vision and Neural Engineering Laboratory, received an Edison Patent Award from the Research & Development Council of New Jersey for a novel test she and a colleague designed to help eye doctors predict how well their patients will adapt to progressive lenses. In collaboration with Bérangère Granger, an optometrist with French optics company Essilor International, the world’s largest manufacturer of corrective lenses and the creator of the first progressive lens, Alvarez invented a device that measures how quickly people optimize their vision at various distances. The pair’s research shows the correlation between two visual systems — the ability to adapt to near or far distances and the speed with which a person’s eyes coordinate and converge to see a single image — to the capacity to adjust to progressive lenses.
NJIT is ranked among the world’s universities according to The Times Higher Education World University Rankings 2015-2016, which lists the best global universities and is the only international university performance table to judge world-class universities across all of their core missions—teaching, research, knowledge transfer and international outlook. NJIT is one of only three New Jersey universities on the list of 800, ranking in the 501-600 range. The rankings include performance indicators such as faculty-student ratios, the university’s global reputation, its total resources, the international mix on campus and links to business. The rankings cover the full range of a university’s missions, including research excellence.

As one of the nation’s preeminent polytechnic institutions, NJIT is often ranked highly in independent university assessments, particularly those that emphasize affordability and return on investment.

U.S. News & World Report ranks NJIT 140 in the category of Best National Universities. NJIT, which moved up nine places from last year’s 149, also is ranked well for its ethnic diversity and providing students with needed opportunities, placing among the top 20 universities nationally in this category.

In a report released March 29, 2016, by Forbes, NJIT ranked 39 in best value public colleges, 60 in the Northeast, 71 in research universities and 120 overall in America’s Best Value Colleges.

According to PayScale’s 2015-2016 College Salary Report, NJIT tied at 226 for best graduate schools (master’s) for salary potential, with a midcareer median salary of $115,000.

The second annual Best Value Colleges study released by SmartAsset, a New York-based financial technology company, ranked NJIT first among New Jersey public universities and third among all New Jersey schools where graduates earn the highest starting salaries.

NJIT placed 32nd on The Princeton Review’s list saluting the top 50 undergraduate schools to study game design for 2016.

Relying on data for the 2013-2014 academic year, Diverse Issues In Higher Education named NJIT 15th in the nation for awarding master’s degrees in engineering technologies and engineering-related fields to Asian-American students. And when looking at undergraduate degree recipients in the same fields, Diverse named NJIT 28th nationally for graduating Asian-Americans.
David Liptsyn, a sophomore biology major at NJIT, took first place in the Health Occupation Students of America (HOSA) competition for nutrition and medical-nutrition therapy. HOSA is an organization for students who aspire to become health professionals.

Junior Sahitya Allam joined past NJIT recipients of a Goldwater Scholarship, one of the nation’s most prestigious academic awards. A biomedical engineering major enrolled in Albert Dorman Honors College, Sahitya also is participating in the college’s accelerated medical education program with the goal of being a researcher and physician. Her research projects have included studying attention-deficit hyperactivity and the regeneration of nerve cells. Dylan Renaud, a sophomore and Honors College scholar with a double major in applied physics and mathematics, received an honorable mention.

Three Ph.D. candidates in the Joint Ph.D. Program in Urban Systems program were recognized for academic achievement. Ha Pham, who earned an M.Arch. and an M.S. in infrastructure planning from NJIT in 2007, won a Graduate Student Award from the New Jersey Inventors Hall of Fame for co-inventing a concealed fastener window wall assembly. Pham began his studies at NJIT in 2005, after winning a full scholarship from the Vietnamese Ministry of Education and Training to attend graduate school abroad. John C. Jones was selected by the Eagleton Institute of Politics as an Eagleton Fellow for the 2015-16 academic year. As part of the fellowship, Jones interned with the Agriculture Development Committee of New Jersey’s Department of Agriculture during the 2016 spring semester and will assist their staff in developing an agriculture incubator program to aid new farmers in New Jersey. Reza Mortaheb was selected as the recipient of the 2016 Houtan Scholarship Foundation Award, which recognizes students who study Persian history, culture, civilization and language.

David Anderson ’16, a mathematical sciences major, is the first NJIT student to receive the prestigious Fulbright Finalist award. The grant will pay for him to travel to Germany and pursue a master’s degree in mathematical finance at the Technische Universität München, where he intends to study how attitudes toward borrowing in different cultures affect the severity of financial recessions as well as economic recovery.

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John C. Jones

Reza Mortaheb

Ha Pham

David Anderson ’16

22 NJIT students
won first place in a student journalism contest on the environment. A cash prize was awarded for the winning entries, which were included in a collaborative investigative reporting project on the local effects of New Jersey’s toxic environmental legacy and published on brickcityfive.com, a Newark website.
Stefani Kocevska ’17, a chemical engineering major and head ambassador for NJIT’s chapter of the American Chemical Society, was designated a Governor’s STEM Scholar last year. Kocevska is leading a five-member team of high school students, also named 2016 STEM Scholars, on a year-long science project investigating the breakdown of chemical compounds subjected to a powerful electrical charge known as a corona discharge. The STEM program, a partnership of the Research & Development Council of New Jersey, the governor’s office and other state education agencies, each year selects 50 high school and post-secondary students deemed promising scientists and leaders, to expose them to STEM opportunities in the state and to introduce them to movers and shakers in academia, industry and government.

First-year student Ashley Pettesch was a finalist in the undergraduate section of the 2016 Johnson & Johnson Engineering Showcase. The subject of her presentation was laparoscopic surgical devices, a project completed with another first-year student, Eshita Shah.

Several hundred students dedicated time to service projects during Alternative Spring Break. They participated in projects such as assisting at a nonprofit farm in Middletown that benefits autistic adults, tending a community garden in Newark, volunteering at a food bank in Hillside, and helping to construct a house for Habitat for Humanity in Bergenfield, N.J. One group of NJIT students traveled to a rural village in Panama, where they set up a medical clinic. The students belong to NJIT’s chapter of Global Brigades, a nonprofit group that offers volunteers the chance to partner with doctors to improve the quality of life in Panama, Honduras and Nicaragua. Another five students traveled to Colombia to teach low-income, k-12 students about computer construction, app development, game development and more as participants in the Ying Wu College of Computing Sciences’ Real World Connections program.
$110,000,000 IN RESEARCH

$49.6 MILLION
Grant from the U.S. Department of Health and Human Services awarded to the New Jersey Innovation Institute to improve clinical care practices in New Jersey

$20 MILLION
In capital funding from the State of New Jersey to renovate classrooms and laboratory spaces

$5 MILLION
Federal grant from the National Institute on Disability, Independent Living and Rehabilitation Research to develop wearable robotic exoskeletons that could restore mobility to individuals suffering from spinal-cord injuries

$4 MILLION
From the National Science Foundation Cybercorps®: Scholarship for Service program to NJIT’s Ying Wu College of Computing Sciences for NJIT’s Secure Computing Initiative

$3 MILLION
From the Environmental Protection Agency for NJIT’s Brownfields Technical Assistance Program

$1 MILLION
From the Keck Foundation for pioneering research in biophysics and nanotechnology
Senior guard Damon Lynn was named to the 2015-16 Division I All-District 3 Team by the National Association of Basketball Coaches (NABC), which annually recognizes the finest student-athletes and coaches across America. This marks the second consecutive season for which he has been honored by the NABC. A First-Team All-Conference selection by the Atlantic Sun Conference, Lynn shattered his own NJIT, single-season scoring record with 642 points last season, and his average of 18.3 points per game also represented a new program high and ranked fifth in the nation’s highest-scoring conference. He finished the season ranked first in the A-Sun and fifth in Division I in three-point field goals made (116), second in the conference and 34th in the nation in total points (642) and 73rd in the country in points per game.

Jenny Cislo ’15, who is in the discussion for best women’s soccer player in NJIT history, was named NCAA Woman of the Year for Independent Programs. With NJIT competing as a Division I independent in 2014-2015, Cislo, an Albert Dorman Honors College scholar, was selected from among all programs that competed as independents in all sports. To be eligible, nominees must have competed and earned a varsity letter in an NCAA-sponsored sport and must have completed eligibility in her primary sport. Cislo was named to the University Division Scholar All-East Region Team, compiling a 3.85 cumulative GPA. She was selected earlier in 2014 as one of five NJIT chemical engineering students to receive internships and scholarship grants from Merck, one of the world’s leading pharmaceutical companies. She also was honored as NJIT’s recipient of the New Jersey Association of Intercollegiate Athletics for Women (NJIAAW) Woman of the Year award.
The NJIT men’s swimming and diving team captured its first-ever ECAC Championship in program history at the ECAC Winter Championships held at the Nassau County Aquatic Center. The Highlanders finished first among 11 men’s teams in the three-day event and the gap between NJIT and second-place Pace (1,436 points to 1089.50 points, 346.50 points) was the largest between any two consecutive spots in the team standings. Sophomore Scott Quirie* was honored as Swimmer of the Meet, while Michael Lawson ’10, ’11, coach of the Highlanders and a former NJIT swimmer as an undergraduate, was named Coach of the Meet. During the third and final day of competition, Quirie broke yet another NJIT school record in the 200 individual medley, finishing first with a time of 1:53.70. The 400 freestyle relay team of freshman Edward Parks, junior Maxim Tillman, junior Michael Sungurov and senior Brian Capozzola placed first and broke the NJIT school record, finishing in 3:07.23. In the 500 freestyle, senior Richard Seffrin placed first, finishing in 4:43.14, while Capozzola placed first in the 50 freestyle with a time of 20.77.

Additionally, the team was honored by the College Swimming Coaches Association of America (CSCAA) as a Scholar All-America team for academic excellence during the 2015 spring semester. To be selected as a CSCAA Scholar All-America team, programs must have achieved a grade-point average of 3.00 or higher over the spring semester. One of 65 Division I men’s swimming and diving teams named to the All-Academic team, the Highlanders finished the spring semester with a 3.10 GPA. Eighty percent of the swimming and diving team was involved in a STEM major; 13 team members received honor roll; and five enrolled in NJIT’s Albert Dorman Honors College.

* Dorman Honors scholars

Assistant Vice President/Director for Athletics Lenny Kaplan was recognized by the Eastern College Athletic Conference as its 2015 Division I Male Administrator of the Year. In May, Kaplan was appointed to a four-year term on the NCAA Division I Men’s Volleyball Committee charged with oversight of the NCAA Volleyball Championship. Kaplan, who has led NJIT’s Division of Physical Education and Athletics since August 2000, has been instrumental in guiding the program’s growth, first at the NCAA Division II level and, since late 2002, through its successful reclassification to NCAA Division I and, most recently, into membership in the Atlantic Sun Conference.
Henrique Marques, a member of the Highlanders fencing team, secured his qualification for the 2016 Summer Olympic Games in Rio. Currently ranked #2 on the Brazilian Olympic team, the business major was among the school-record six fencers representing the Highlanders in the 2016 NCAA National Championships hosted by Brandeis University. Seeded the highest (fifth) of any Highlander heading into the Regionals, he recorded a third-place finish in the men’s foil and was undefeated against four of eight schools he competed against this season, including #3 Penn State, Sacred Heart, Vassar and New York University. With fellow fencing champion Julia García, he qualified to attend the Junior World Championships in Tashkent, Uzbekistan, in which he placed 23rd out of 113 participants in his event.

NJIT redshirt junior Luke Robbe earned a spot on the 2016 Eastern Intercollegiate Volleyball Association (EIVA) All-Academic team. A two-time honoree, Robbe is a mechanical engineering major who joins 15 student-athletes from six of the seven member institutions to be honored. In order to be named to the team, recipients must have participated in at least 60 percent of their team’s sets, maintained a minimum of a 3.50 GPA, and must be in at least their second year academically. The 6-foot-8 middle finished the season hitting a season-best .366, leading the team in total blocks (83) and ranked third in kills (143). Robbe notched five double-digit kill matches, including a season-best 12 kills in the Highlanders 3-2 victory at Princeton on March 22, 2016, and hit a season-best .909 (10k, 0e, 11a) at #9 Penn State and .625 against Princeton, posting 10 kills on 16 attempts with no errors. He added a season-high seven block assists.

NJIT’s #1 men’s tennis player Markus Schultz, a senior from Stockholm, Sweden, finished the 2015-16 season ranked 10th in the NCAA Division I Men’s Northeast Region by the Intercollegiate Tennis Association (ITA), the ITA announced on June 8, 2016. Schultz completed his college playing career in April after distinguishing himself throughout his four years at NJIT. He capped his senior season as one of eight players named to the All-Atlantic Sun Conference first team, as well as receiving ASUN All-Academic recognition (3.36 GPA majoring in mathematical sciences) following NJIT’s first season as a member of the conference. Schultz earns his third consecutive season-end regional ranking from the ITA. He was most recently recognized as the ninth-best Swedish men’s player in all of college tennis, according to the Universal Tennis Rating (UTR) system in a late May 2016 article entitled “Elite of College Tennis: The Swedes”; The 10 Hottest Swedish Men and Women on Campuses Now.

*Morgan Honors scholars
**Fiscal Years 1996 - 2015 | (Dollars in Thousands)**

**Fiscal Years 2004 - 2015 | (Dollars in Thousands)**

**Fiscal Year 2015 Research Expenditures by Source**
- **Total ($000’s) - $110,511**
  - Federal: $55,094 (50%)
  - State: $3,356 (3%)
  - Corporate & Foundation: $14,625 (13%)
  - Institutional: $43,037 (38%)
SCHOOLS AND RESEARCH CENTERS

Schools and Research Centers

Schools and Colleges

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973-596-6506 • engineering.njit.edu

College of Architecture and Design
Urs P. Gauchat, Dean
973-596-3080 • design.njit.edu

College of Science and Liberal Arts
Kevin Belfield, Dean
973-596-3677 • csla.njit.edu

Martin Tuchman School of Management
Reggie Caudill, Dean
973-596-3514 • management.njit.edu

Albert Dorman Honors College
John Bechtold, Interim Dean
973-642-4448 • honors.njit.edu

Ying Wu College of Computing Sciences
Marek Rusinkiewicz, Dean
973-596-5488 • ccs.njit.edu

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Research Centers in Life Sciences and Engineering

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973-596-6306 • centers.njit.edu/cibm3

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Kam Sirkar
973-596-8479 • mastcenter.org/

New Jersey Center for Engineered Particulates
Raj Davé
973-596-5860 • centers.njit.edu/njp/p

York Center for Environmental Engineering and Science
Som Mitra
973-642-7110 • centers.njit.edu/york/

Structural Analysis of Biomedical Ontologies Center
Yehoshua Perl
973-596-3392
cs.njit.edu/~ooehr/SABOC/index.php

Research Laboratories in Data Science and Information Technologies

Advanced Networking Laboratory
Nirwan Ansari
973-596-5814 • web.njit.edu/anl

Data and Knowledge Engineering Laboratory
Jason T. L. Wang
973-596-3396 • datalab.njit.edu

electronic Arts Habitat (eArtH)
Brook Wu
973-596-5285
is.njit.edu/research/labs/earth.php

Research Centers in Transdisciplinary Areas

Center for Applied Mathematics and Statistics
Lou Kondic
973-596-5782 • math.njit.edu/research

Intelligent Transportation System Resource Center
Lazar N. Spasovic
973-596-7214
transportation.njit.edu/NCTIP/research

National Center for Transportation and Industrial Productivity
Lazar N. Spasovic
973-596-7214
transportation.njit.edu/ncipt

New Jersey Innovation Institute (NJII)
Donald H. Sebastian
- Bio-Pharmaceutical Production iLab
- Civil Infrastructure iLab
- Defense & Homeland Security iLab
- Financial Services iLab
- Healthcare Delivery Systems iLab
973-596-5800 • njii.com

North Jersey Transportation Planning Authority
Mary Kay Murphy
973-639-8400 Ext. 8401
njtra.org/home

Transportation, Economic and Land Use System (TELUS)
Lazar Spasovic
973-596-7214
telus-national.org/index.htm
The NJIT NEXT comprehensive campaign surpassed its $150 million goal to become the largest philanthropic fundraising effort in university history. The $200 million, 10-year campaign raised $153,700,251 or 102 percent of the goal—two years ahead of schedule—to undergird a campus transformation that has received national attention.

The campaign, which raised $9,006,727 in private funds in FY2015 alone, supports NJIT’s transformation and lays a solid foundation for 2020 Vision: A Strategic Plan for NJIT. Since the campaign’s launch, NJIT endowed funds surpassed $100 million. Some 125 new student scholarships have been established, providing opportunities that attract the brightest students. NJIT enrollment is at an all-time high of more than 11,000 students.

Since its launch in July 2007, more than 19,000 donors (alumni, students, faculty, staff, friends, foundations and corporations) have contributed gifts to NJIT NEXT. Of those gifts, 75 were leadership contributions of $250,000 or more, including several multimillion-dollar donations.

The NJIT NEXT campaign was guided by a group of dedicated alumni volunteers, including campaign co-chairs C. Stephen Cordes ’72, former managing director of Clarion Partners; Nicholas M. DeNichilo ’73, ’78, president and CEO of Hatch Mott MacDonald; and Vincent Naimoli ’62, chairman emeritus/founder of the Tampa Bay Rays, chairman and CEO of Anchor Industries International and Naimoli Baseball Enterprises.

The NEXT CAMPAIGN TOTAL AS OF 6/30/16

$171,829,099

$46,858,204

$57,672,292

$67,298,603

20,623
TOTAL NUMBER OF DONORS