

ABSTRACTS

COLLEGE OF COMPUTING SCIENCES NAMED AFTER YING WU '88



PHOTO: GRADIMAGES

NJIT President Joel S. Bloom presented Ying Wu '88 with a crystal replica of the plaque that was installed on the Guttenberg Information Technologies Center, which will now bear the name: Ying Wu College of Computing Sciences.

For the first time since it was established, NJIT's College of Computing Sciences 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, members of the NJIT community assembled in the Guttenberg Information Technologies Center, where President Joel S. Bloom christened CCS the Ying Wu College of Computing Sciences. "His name is renowned throughout China and he has given much of his time and treasure to this university," said Bloom about the tech pioneer, 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.

"Ying Wu's generosity of spirit and focus on innovation and excellence exemplify what we work diligently to teach all of our students," said Bloom. "He is creating new scholarships and new opportunities for thousands of students who will be well educated at NJIT and who will make

outstanding contributions to the economy and quality of life, locally and internationally."

"I'm so happy to be here," said Wu, who traveled back to his academic home from Beijing to accept the honor and receive an honorary Doctor of Science degree at the 2016 commencement ceremony. He expressed his eagerness to use his namesake as a vehicle to foster increased collaboration between the U.S. and China.

"I've always had this dream to see the two countries work together on future technology for big data," said Wu. "The Ying Wu College of Computing Sciences has huge things to do. I really hope to see more collaboration between NJIT and China, more collaboration between the two countries and more Chinese who come to the United States to study and research here."

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 commencement ceremony May 19, discussed how the UCLA host computer became the first node of the internet in September 1969. Offering commentary on everything from early Internet culture (he showed the actual log of the first message on the internet) and how the web has removed physical barriers to what the future has in store with respect to interaction (nomadic computing, ubiquity, mobility, internet of things, intelligent software agents, invisibility), Kleinrock reminded the packed house, "We've created a global system, which will constantly surprise us and shock us. And therein lies the opportunity and promise for more growth. Don't ignore what happened before. It came from someplace."

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. ■

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Ying Wu '88 and the new signage installed in the Guttenberg Information Technologies Center.



PHOTO: GRADIMAGES

NEW JERSEY GOVERNOR TOURS STATE-FUNDED CKB RENOVATION



PHOTO: DERIC RAYMOND

Governor Chris Christie visited the research lab of Assistant Professor Daphne Soares.

On May 4, New Jersey Governor Chris Christie toured NJIT's Central King Building, a former high school that has been transformed into a state-of-the-art science center where professors and students strive to answer life's most perplexing scientific questions. Afterward, he said he was delighted to see how state funds have transformed a vacant shell of an old high school into a thriving scientific hub that is training the next generation of engineers and scientists, mathematicians and technologists.

"Students will be able to compete globally because of the education they receive in this building and on this campus," said Christie. "And the future of our state requires that we invest in that. That's why I've done what I've done with this investment"

It had been 25 years since the state invested in capital funds for higher education in New Jersey, added Christie. But that changed in 2013 when voters passed the Building Our Future Bond Act, which

allowed for \$1.1 billion in funds to flow to the state's colleges and universities. The largest single investment from that bond—\$86.3 million—went toward the renovation of the Central King Building. Originally constructed in 1911, the building was home to Central High School, which NJIT purchased from the City of Newark in 2011. The building is still undergoing renovation; The Center for Innovation and Discovery will be located on the lower floors of the building, as will the New Jersey Innovation Institute, which partners with industry on research and development.

Christie said the state must fill an estimated 270,000 STEM-related jobs by 2018. NJIT, which historically educates more than a quarter of the state's engineers, will help supply those STEM employees, and those employees will in turn boost the state's economy. He also praised NJIT President Joel Bloom for his outstanding leadership.

"I had no hesitation in supporting this capital investment at NJIT because I knew Joel Bloom and the Board of Trustees would use the money to focus on student and faculty development," he said. "Working together, we will help the students develop into leaders in STEM fields."

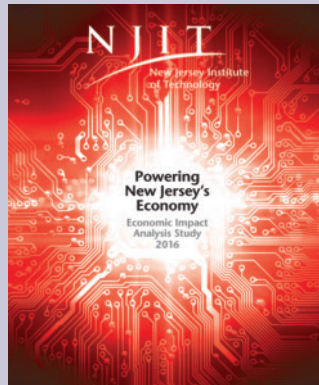
In his opening remarks, Bloom thanked the governor for his support and for his commitment to higher education, especially to NJIT.

"You had the vision during the restructuring of higher education to have NJIT continue as New Jersey's public polytechnic university—a driver of much of the state's workforce," said Bloom. "We have grown our enrollment, our research and increased our faculty while continuing our commitment to supply New Jersey's science and technology workforce. We're also growing the economy through our Enterprise Development Center, a business incubator that houses 95 companies with 800 employees." ■

A POWERFUL IMPACT

NJIT creates at least \$1.74 billion of economic value for the Garden State each year, according to a new analysis of the university's economic impact.

The analysis, based on the work of independent consultants, found that the largest component of NJIT's impact—stimulating new economic activity of about \$724 million every year in the state of New Jersey, and approximately \$350 million within the city of Newark—is a result of the university's ongoing operations. These include its robust academic and research programs, as well as other direct operating expenditures in support of its more than 11,300-strong student body and its complement of almost 2,150 full- and part-time faculty



and staff.

"I am very pleased to see NJIT's impact on our state and local economies," said NJIT President Joel S. Bloom. "Our increased research expenditures of over \$110 million (which currently place NJIT within the top five of all U.S. polytechnic universities), our faculty and facilities expansion, and our traditional role as a hub for clusters of innovation are important drivers of economic development and growth that continue to give New Jersey a competitive edge in an

increasingly technology-led global economy."

Among other factors identified in the analysis as contributing to NJIT's overall economic impact are: student and visitor spending, which generates more than \$150 million of incremental in-state economic activity each year; the university's ongoing program of capital investments—for instance, its new \$20 million, 24,500-square-foot, state-of-the-art Life Sciences and Engineering Building, and other high-profile projects currently underway—which stimulates more than \$115 million in annual economic output; and, the wage premium earned by NJIT alumni, many of whom are employed in relatively high-paying STEM-related professions, which contributes more than \$105 million of annual economic output at the statewide level. ■

njit.edu/impact

A BEST GLOBAL UNIVERSITY

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. They are the only international university performance tables 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 many performance indicators, including faculty-student ratios, the university's global reputation, its total resources, the international mix on campus, and its links to business. The rankings cover the full range of a university's missions, including research excellence. ■