



Morningside Heights Campus Presentation

March 2021

Executive Summary



David M. Greenberg
Executive Vice President,
Facilities and Operations

Columbia's historic Morningside Heights campus, home to the University for more than a century, is central to Columbia's future, providing world-class research facilities befit for the brightest minds in academia and equally exemplary spaces to nurture a rich campus life.

To keep to that high standard, the University invests significantly in the Morningside campus each year, paying homage to the beauty of the historic grounds and buildings while transforming spaces to serve the 21st century and beyond. This report exemplifies our continuous investment in the Morningside campus to help cement the University's place as a leader in higher education.

Over the past ten years, new construction and renovation at the Morningside campus have totaled more than 1.6 million square feet of space and have occurred in nearly every building. Aging buildings have been upgraded with modernized lecture halls, high-tech classrooms, specialized labs, and enhanced residence halls. Unused spaces were repurposed and transformed into institutes, classrooms, and student spaces to spark innovation. Historic restorations preserved and renewed our campus gems, and century-old infrastructure was brought into the 21st century with the installation of disability ramps and lifts as well as plant and utilities upgrades. New construction and leased space added 320,000 square feet to the Morningside campus – equivalent to three Kent Halls – with the most prominent addition being the interdisciplinary research hub at the Northwest Corner Building.

The projects to follow – including some brought to life in this [video](#) – exemplify a strategy of long-term and ongoing investments to strengthen the Morningside campus.

McKim, Mead, and White's Beaux Arts Morningside Campus



A place of "doubled magic" where "the best things of the moment were outside the rectangle of Columbia; the best things of all human history and thought were inside the rectangle."

-Herman Wouk

Morningside and Manhattanville: Campus Expansion and Renovations, 2009 to 2019

	<u>Manhattanville*</u>	<u>Morningside**</u>
Campus expansion (construction, leases)	641,000	320,530
Renovated spaces, sq. ft.	172,715	1,285,467
Total square feet added/improved	813,715	1,605,997

*Manhattanville estimates exclude the Business School.

**Morningside space estimate includes undergraduate residence hall renovations placed in service (556,616 sq. ft.).

Source: Team analysis, Columbia University Facilities and Operations, February 2020.

Morningside and Manhattanville Campus Expansion and Renovations for FY 2020

	<u>Manhattanville*</u>	<u>Morningside**</u>
Campus expansion (construction, leases, acquisitions)	0	0
Renovated spaces, sq. ft.	6,000	32,819
Total square feet added/improved	6,000	32,819

*Manhattanville estimates exclude the Business School. Renovated square feet includes Public Safety offices placed in service.

**Morningside space estimate includes undergraduate residence hall renovations (6,344 sq. ft.) and academic space renovations (24,950 sq. ft.) placed in service

Source: Team analysis, Columbia University Facilities and Operations, February 2021.

The Morningside Campus: A Decade of Investment

Capital Investment in Morningside Campus from 2009 to 2019

This investment addresses important strategic goals for research and education:

Advancing the academic and research mission



Enhancing student and community life on campus



Restoring and modernizing buildings, grounds, infrastructure



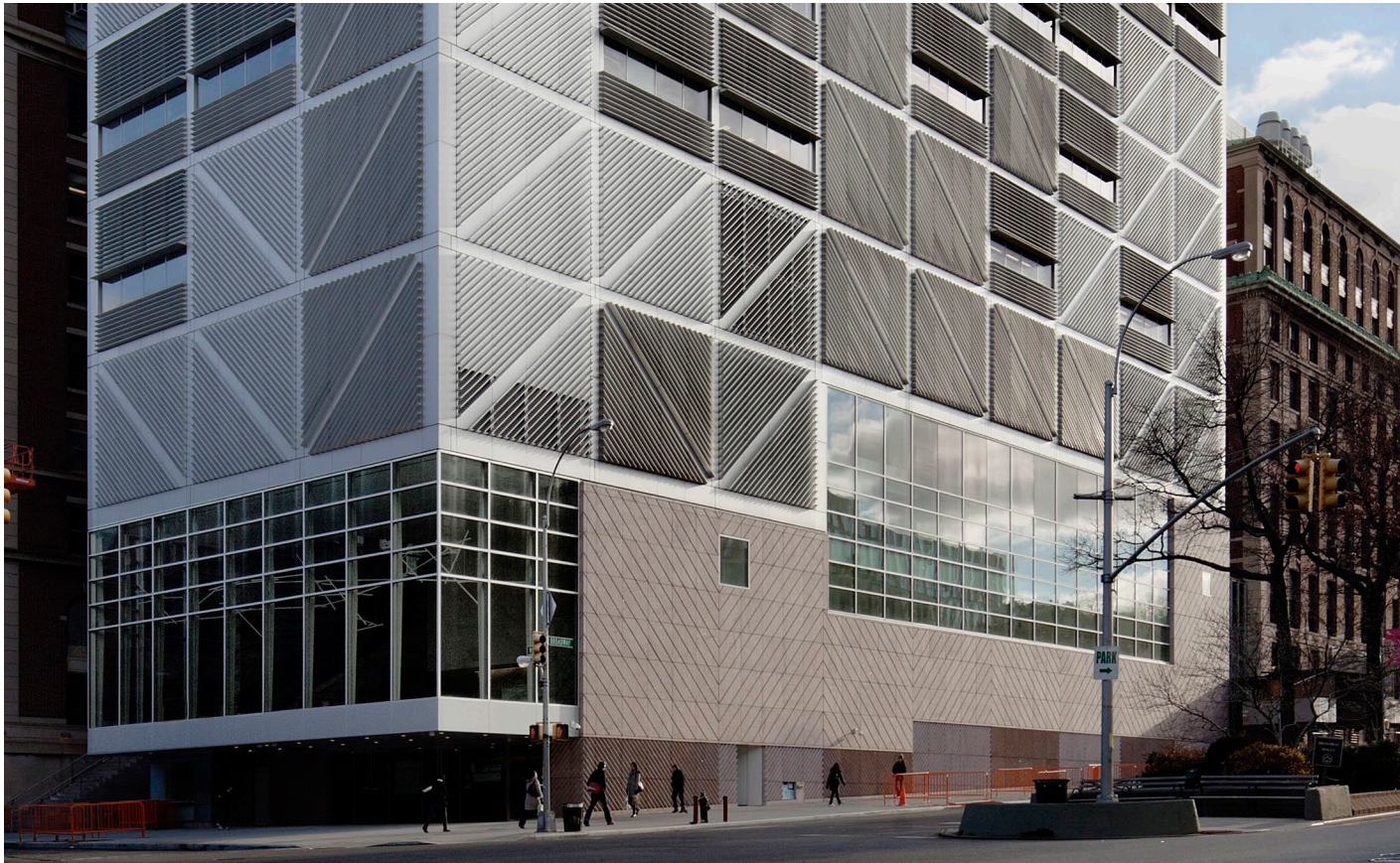
Video: New Spaces at Morningside



***Advancing the academic
and research mission***

Advancing the academic and research mission

Expanding the Morningside campus



Northwest Corner Building

ARCHITECTURE REVIEW

A Building Forms a Bridge
Between a University's
Past and Future



"This is superb
architecture: clean, compact
and perfectly calibrated."



West Corner Building Designed by José Rafael Moneo, Columbia University's new addition is depicted as a gateway to a campus planned for West Harlem. Robert Caplin for The New York Times

By Nicolai Ouroussoff

Feb. 8, 2011



Advancing the academic and research mission

Expanding the Morningside campus

Knox Hall Renovation



This LEED-Gold renovation added 52,009 square feet of classrooms and offices for several University departments and institutes.

Northwest Corner Building



Opened in 2010, this new construction added 207,843 square feet of offices, classrooms, labs, a science library, and interdisciplinary research.

Interchurch Center



Added and renovated 60,678 square feet of space for Arts and Sciences, Engineering and Business academic offices.

***Morningside
campus 2009 to
2019***

***New construction
207,843 sq ft***

***Leased spaces
112,687 sq ft***

Total 320,530 sq ft

Advancing the academic and research mission

Scholarly innovations: new research centers and institutes



Data Science Institute

“Just as the architects focused on ‘diffusing boundaries’ within the physical space, we hope the space will encourage students and faculty to diffuse across disciplinary boundaries.”

- *Jeannette Wing, Avaneassians Director of the Data Science Institute and Professor of Computer Science*

Advancing the academic and research mission

Scholarly innovations: new research centers and institutes



The Center for Theoretical Physics

“We need to stand shoulder to shoulder and do calculations together, with one person injecting an idea and another taking it in a different direction. Those are the kinds of moments that will happen all the time in the new space. These improvements are absolutely vital for the recruitment of new faculty and students.”

- *Brian Greene, Professor of Mathematics and Physics*

Advancing the academic and research mission

Scholarly innovations: new research centers and institutes

Brown Institute for Media Innovation



A signature collaborative space with a technology-driven multimedia newsroom enables experimentation with new content, delivery platforms.

SIPA Center on Global Energy Policy



Build-out of ground-level space provides a mix of offices, workstations, conference rooms, and support spaces.

Institute for Israel and Jewish Studies



Kent Hall renovated space includes a room for speakers and conferences supporting 50+ events the Institute hosts each year.

Total of similar academic centers and institutes across Morningside campus 2009 to 2019

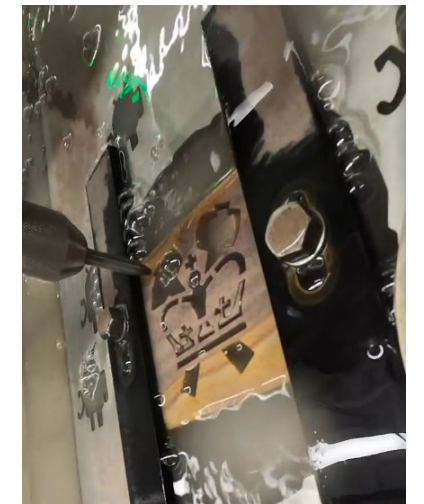
42,970 square feet renovated

Advancing the academic and research mission

Spaces that bring education to life



Columbia Engineering Makerspace



Products made in Makerspace

Advancing the academic and research mission

Spaces that bring education to life

Computer Science 400 Level Renovation



A full, gut-renovation adds classroom and computing lab capacities, provides infrastructure upgrade and an attractive learning environment.

GSAPP Urban Planning and Design Studio



Gut renovation of an underutilized space in Fayerweather offers high-demand studios, group meeting spaces, and classrooms.

Chandler 400 Level Classrooms



Conversion of former Chemistry Library provides a 126-seat lecture room, classrooms, disability testing rooms, and a wellness room.

Total of similar classrooms, lecture halls, and specialized academic spaces across Morningside campus 2009 to 2019

163,657 square feet renovated

Advancing the academic and research mission

Grand spaces for hosting world-renowned events



World Room at Pulitzer Hall

Advancing the academic and research mission

Grand spaces for hosting world-renowned events

Joseph D. Jamail Lecture Hall, Pulitzer Hall



A modernized space with specialized technology, new wood flooring, LED lighting, and a custom acoustic ceiling to serve a range of academic events.

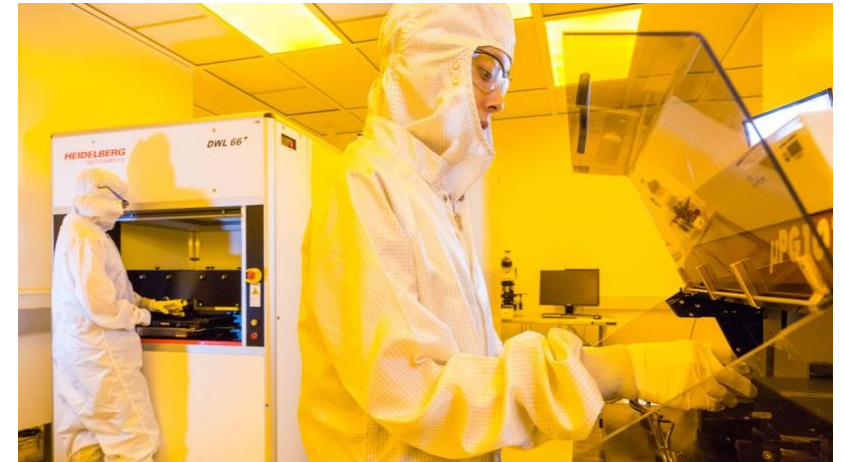
Case Lounge in Jerome L. Greene Hall



Renovation of this high-demand space improved the appearance and provided greater flexibility for the room's diverse uses.

Advancing the academic and research mission

Facilities for highly specialized research



Nanofabrication Clean Room

Advancing the academic and research mission

Facilities for highly specialized research

**Psychology Research
Lab, Schermerhorn Hall**



Refurbished, modern lab with new testing rooms, workstations, a video wall, and upgraded infrastructure.

**Chemistry Lab in
Chandler Hall**



Renovated several labs to meet the evolving needs of the Chemistry Department.

**Quantum Physics Lab
in CEPSR**



Specialized lab for faculty research in quantum optics requiring precision in temperature, humidity, electromagnetic frequency; controlling dust, noise.

*Total of similar
laboratory projects
across Morningside
campus 2009 to 2019*

*116,390 square feet
renovated*

***Enhancing student and
community life on campus***

Enhancing student and community life on campus

Creating social spaces for relaxing and interacting



General Studies Student Lounge

“It’s such a great community space; it’s really a squad, a family in here. If I need someone to tell me if a sentence makes sense, there’s someone in here. If I need someone to give a hug to, there’s someone in here. I just really like that it’s so much more personal than most of the other spaces on campus.”

- Sitara Herur, GS’19

Enhancing student and community life on campus

Creating social spaces for relaxing and interacting

Graduate Student Center



New Graduate Student Center in Philosophy Hall, offers social space dedicated to graduate students, breakout rooms and A/V for events.

Carleton Lounge and Mudd Lobby



Transformation of former Carleton Lounge into a versatile meeting, study, and event space, coupled with a modernized building lobby.

Lerner Hall Renovations



Spaces within Lerner Hall were reimaged in keeping with expressed student preferences as the center for undergraduate student life.

Total of similar social spaces and cafés across Morningside campus 2009 to 2019

94,555 square feet renovated

Enhancing student and community life on campus

Investments in the undergraduate living experience



Major upgrades, phased over three summers, modernized a first-year residence hall, including new furniture, bathroom fixtures, accessible rooms, infrastructure, and the creation of new lounges on each floor.

Carman Hall Renovations

Enhancing student and community life on campus

Investments in the undergraduate living experience

John Jay Hall Renovations



Improvements enhanced student comfort and included new flooring, lighting, gender-neutral restrooms, updated lounges, and more.

619-623 West 113th Street Renovation



A full interior renovation for the Living Learning Center, creating a unique environment for students to explore and cultivate common interests.

East Campus Building Electrification



A gas-to-electric utilities conversion at the 32-story residence hall ensures the integrity of the building's infrastructure for years to come.

Total of similar undergraduate residential renovations across Morningside campus 2009 to 2019

611,980 square feet renovated

Enhancing student and community life on campus

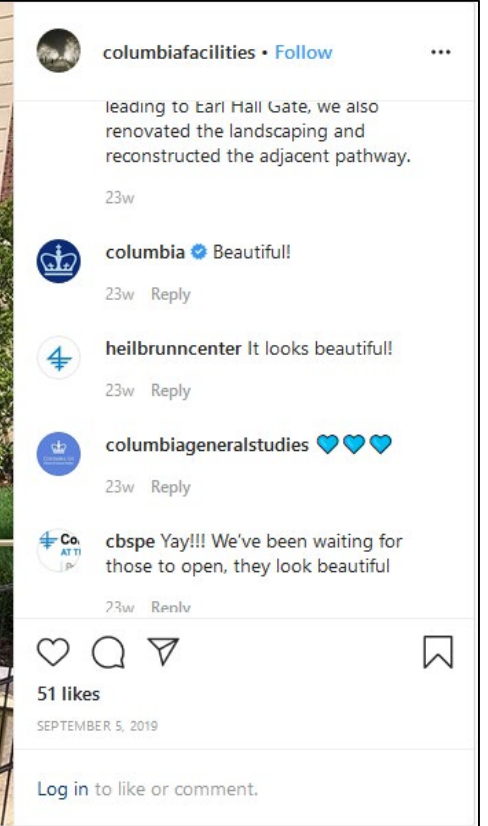
Improving outdoor spaces

Columbia remodels lawns in attempt to increase accessibility of outdoor common spaces



ARIELLE SHTERNFELD / COLUMBIA DAILY SPECTATOR

Facilities has improved the drainage of the Lewisohn lawn and South Lawn to reduce the amount of time that these lawns are unusable and ensure the community can utilize the spaces faster after a rainfall.



Earl Hall Gate Stair Replacement

Enhancing student and community life on campus

Improving outdoor spaces

Computer Science Courtyard



The interior courtyard was transformed into a lush seating area, revitalized with new trees, shrubs, and greenery.

Lawn Improvements



Enhancements encourage use of campus lawns, including landscaping and new drainage systems to increase lawn recovery time.

Mathematics Pathway



Pathway reconstructed consistent with campus architecture, preserved Sycamore tree and created sloped ADA pathway to Havemeyer.

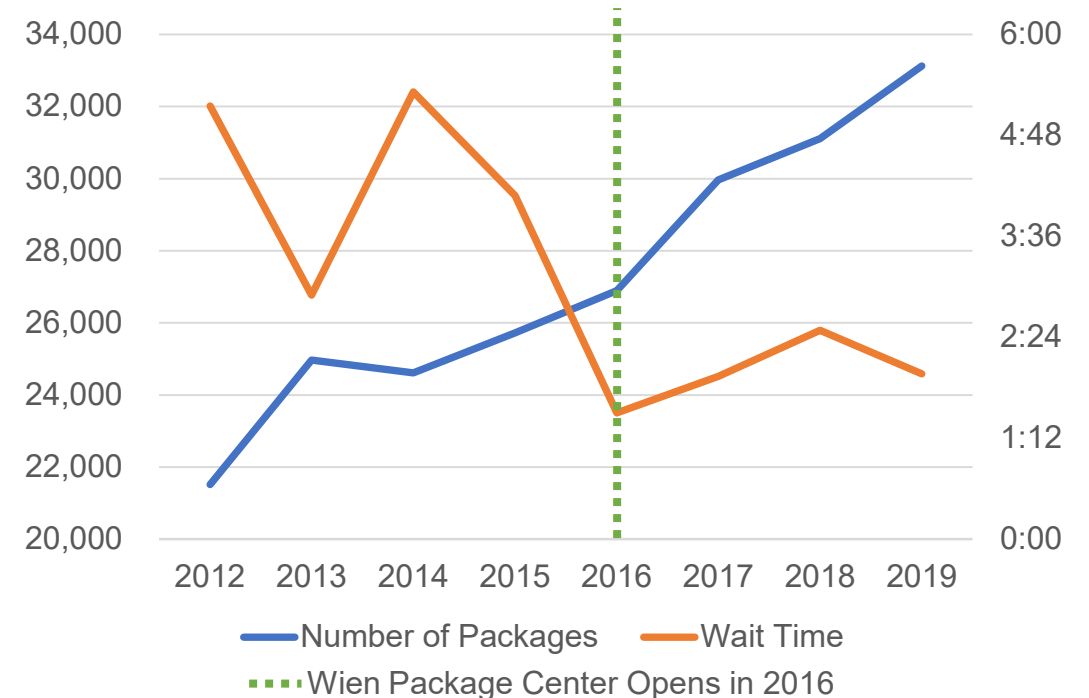
Enhancing student and community life on campus

Renovations that improve the student experience



Undergraduate Package Center in Wien Hall

Incoming Packages at the Undergraduate Package Center



Enhancing student and community life on campus

Renovations that improve the student experience

Columbia Health Renovations John Jay



Renovations provide centralized and improved space for Medical Services, Gay Health Advocacy Project, Alice!, Insurance & Immunization.

University Life office renovation



Renovation of adjacent offices provides an accommodating and functional office suite for University Life activities.

Total of similar, student-facing office projects across Morningside campus 2009 to 2019

29,141 square feet renovated

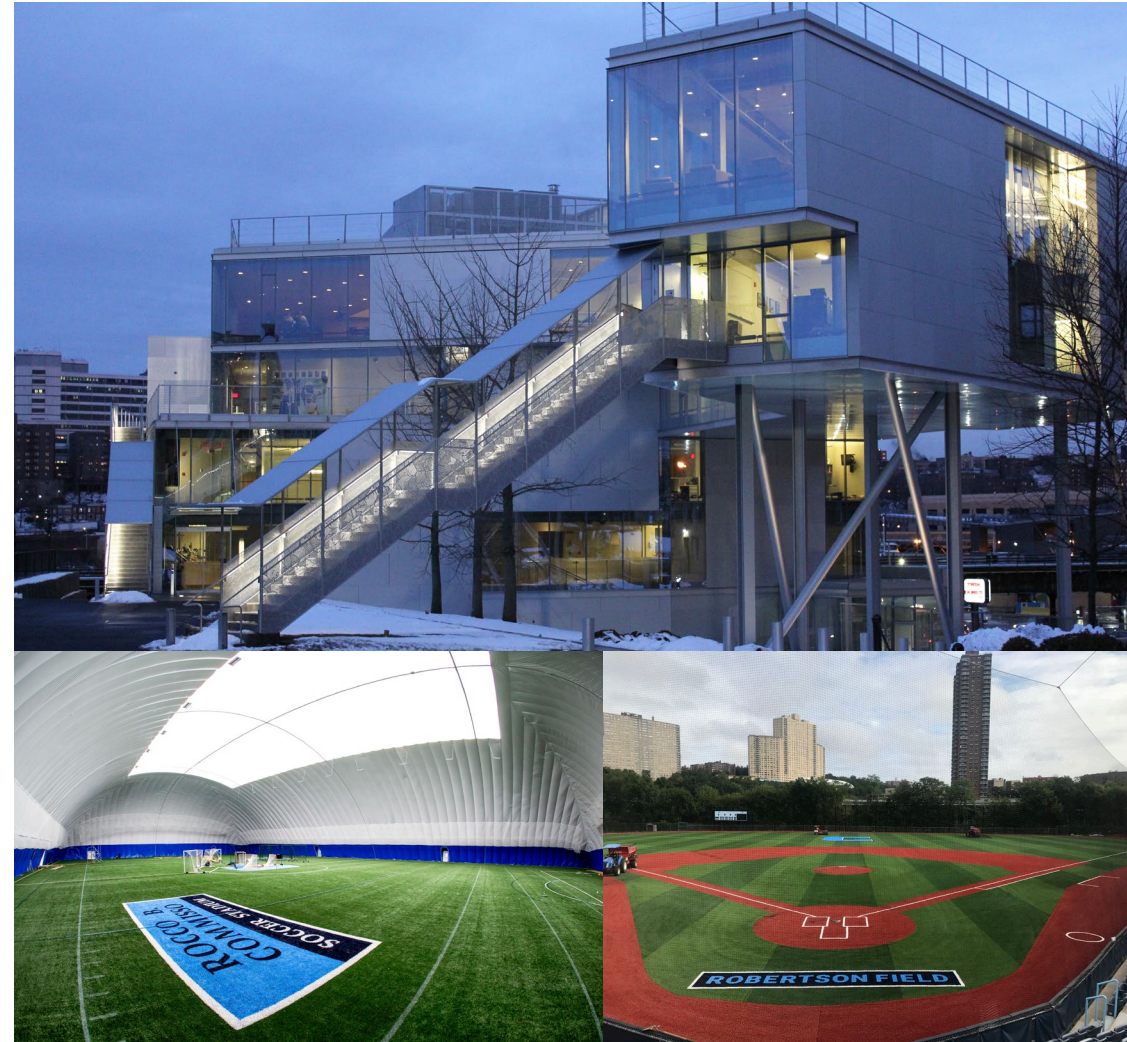
Enhancing student and community life on campus

Baker Athletics Complex

An extension of the Morningside campus as a major contribution to the student experience

“The Bubble at Baker is so important to our long-term success. The new facility provides us a state-of-the-art indoor winter practice space for our field sports and will also alleviate seasonal overcrowding in Dodge Fitness Center that negatively affects our indoor varsity sports, as well as our clubs and our recreational users.”

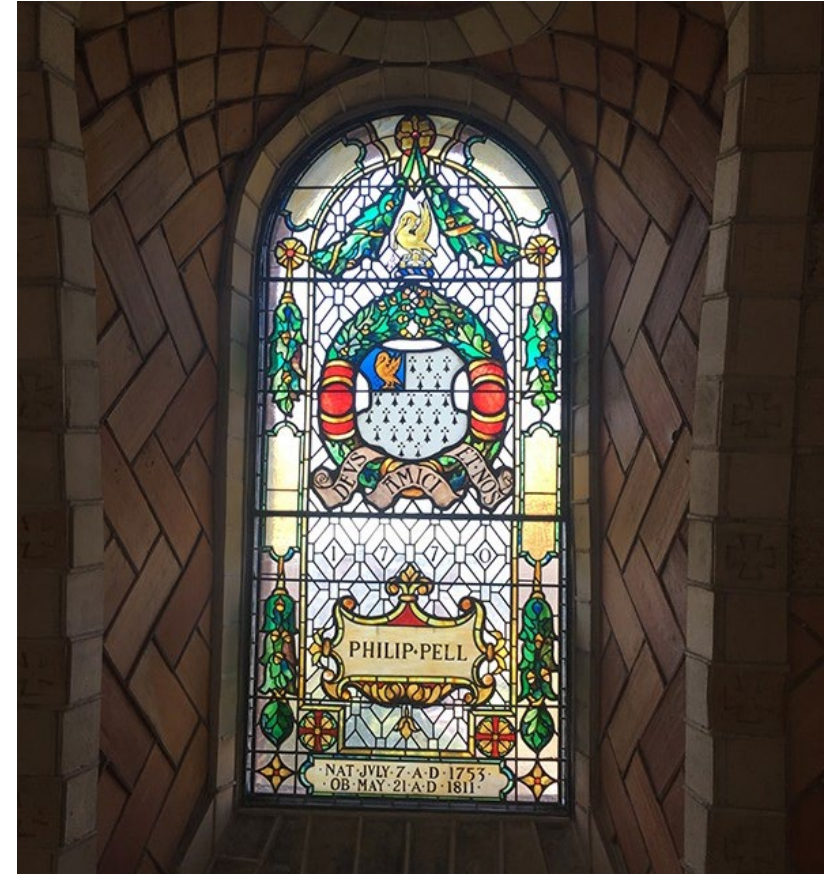
- Peter Pilling, Campbell Family Director of Intercollegiate Athletics and Physical Education



***Restoring and modernizing
buildings, grounds, infrastructure***

Restoring and modernizing buildings, grounds, infrastructure

Historic restoration



St. Paul's Chapel Restoration and Roof Replacement

Restoring and modernizing buildings, grounds, infrastructure

Historic restoration

Faculty House



Renovation and restoration reset the client experience at Columbia's premier reception and meeting venue while earning LEED Gold certification.

Alumni Center



New home for Office of Alumni and Development and social center for Columbia's 300,000 alumni earned LEED Gold certification.

Historic Building Window Replacement



Deteriorating windows in McKim, Mead & White buildings across campus were replaced in keeping with the buildings' historic design.

Restoring and modernizing buildings, grounds, infrastructure

Strengthening core campus and building infrastructure



Central Chilled Water Plant Upgrades



“Columbia's approach to this chiller plant was phenomenal. They identified opportunities to gain a return on investment in just over three years. Implementing this plant helps relieve strain from the Con Edison grid and we're hoping other institutions and utilities follow suit.”

- *Shaun Hoyte, Specialist, Targeted Demand Management, Con Edison*

Restoring and modernizing buildings, grounds, infrastructure

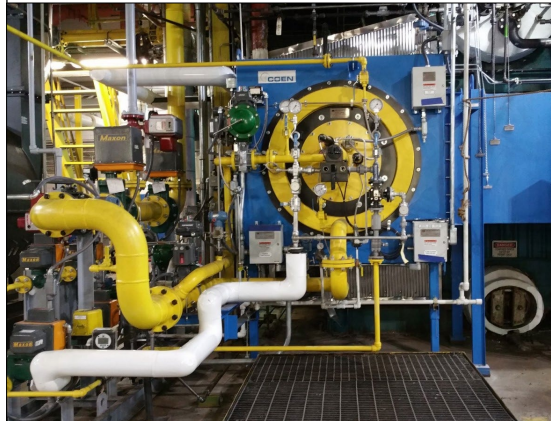
Strengthening core campus and building infrastructure

Pipe Replacement ,John Jay Dining & JJ's Place



Replacement of century-old piping serving the main dining hall and JJ's Place. Will support the primary undergraduate dining venues for decades ahead.

Central Steam Plant Boiler Retrofit



Retrofit steam boilers to increase efficiency, reduce emissions, and save energy for campus-wide heating and powering the central chillers.

Electrical Upgrades




Electrical infrastructure upgrades will increase capacity for CEPSR and Pupin and provide capacity to central chiller plant for new electric chiller.

Restoring and modernizing buildings, grounds, infrastructure

Improving disability access within historic campus

4 SPRING 2019 *TheRecord* 

DISABILITY ACCESS IS IMPROVING ACROSS MORNINGSIDE CAMPUS



BEFORE **AFTER**


Three steps into the original entrance of Havemeyer Hall, with two more steps inside, present an obstacle to someone with a disability. As of this spring, there is a new paved ramp leading to a second, accessible entrance 30 feet away.

By *Georgette Jasen and Noah Lichtman*

Until recently, someone in a wheelchair or with limited mobility trying to enter Havemeyer Hall had to detour through the Northwest Corner Building, 300 yards to a ramp adjacent to Hamilton connecting College Walk to lower campus, we are able to maintain—and even enhance—the historic character of the campus design while substantially improving disability access,” said Greenberg.

The improvements are inside and out. Last spring, a new wheelchair lift at the Mathemat-

RECENT DISABILITY ACCESS PROJECTS MORNINGSIDE CAMPUS



“It’s encouraging to see long-lasting, permanent physical changes to improve disability access on campus. The University needs these kinds of structural changes in order to build a more diverse community.”

- *Gordon Slater, SOA’19*

Restoring and modernizing buildings, grounds, infrastructure

Improving disability access within historic campus

Lower Campus Ramp



Permanent accessibility ramp connecting lower campus and College Walk, improving access between residential and academic buildings.

IAB 400-level Lift



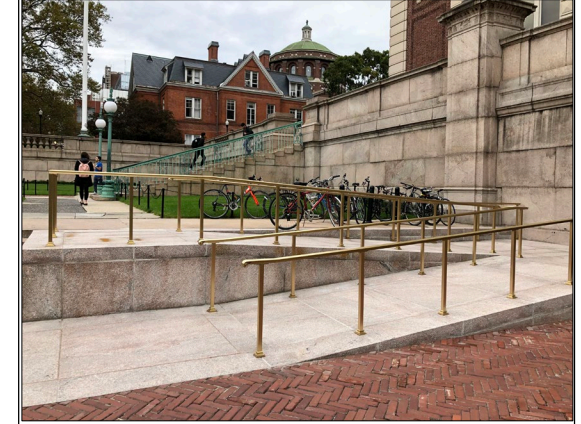
Lift connects the entrance and atrium levels, providing seamless access between the building's entrance/elevators and Altschul Auditorium/Law School.

Butler Plaza Restoration & Ramps



Permanent ramps through campus high-traffic route, provide access to critical amenities. Ramps consistent with campus historic architecture.

Ramp links Low Plaza and College Walk



Permanent accessibility ramp to Low Plaza, a popular social space for students and frequent outdoor event space.

Restoring and modernizing buildings, grounds, infrastructure

Common spaces befitting a world-class institution

Morningside Campus Building Corridor Renovations



Pupin Hall - Before



Pupin Hall - After

Restoring and modernizing buildings, grounds, infrastructure

Common spaces befitting a world-class institution

Restroom Upgrades



Renovated restrooms throughout campus for improved appearance while adding ADA-compliant and gender-neutral facilities.

Low Library 200 Level Lobby



Repairs, historic restoration of the lobby's ornate plaster ceiling and walls addressed deteriorating conditions and restored a campus gem.

Avery Hall Common Area Restoration



Restored Avery's public spaces consistent with original intentions, hiding conduit in walls, refinishing details, and adding recessed LED lighting.