



GREEN BUILDING UNITED 2019 GROUNDBREAKER AWARDS



September 25, 2019

6:00 - 9:00 pm | Comcast Technology Center



GREEN BUILDING UNITED 2019 GROUNDBREAKER AWARDS

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Evening Program: 6:00 - 9:00 PM

6:00 - 7:30 PM | Open Bar, Passed Hors d'oeuvres, and Dinner

7:30 - 8:15 PM | Awards Ceremony

8:15 - 9:00 PM | Open Bar, Dinner, and Dessert

Welcome

Scott Kelly, AIA, LEED Fellow, CPHC, LFA, Principal, Re:Vision Architecture;
Board of Directors Chair, Green Building United
Ronald J. Becker CRX, CSM, Senior Vice President Operations & Sustainability,
Brandywine Realty Trust – Presenting Sponsor
Susan Jin Davis, Chief Sustainability Officer, Comcast – Venue Host
Alex Dews, Executive Director, Green Building United

Community Leadership Awards Presentation

Doreen Masalta, Director of Energy and Marketing Services, PECO – Awards Sponsor
Erin Loch, Environmental Science Teacher, Upper Dublin High School – Awardee
Michael Cang, Co-Founder, United By Blue – Awardee

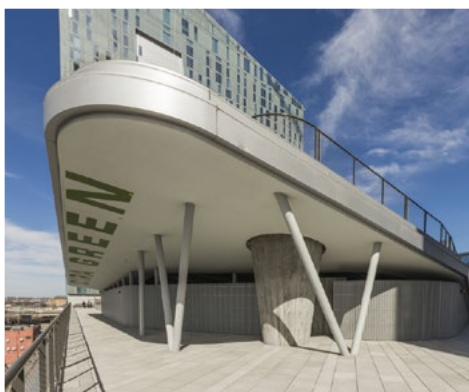
Muscoe Martin Green Building Fellowship Presentation

Project Awards Presentation

Alex Dews, Executive Director, Green Building United

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At Brandywine Realty Trust, we are committed to establishing quality sustainable practices within our buildings to enable the wellness, productivity and excellence of our tenants and employees. As such, we are proud to act as the **Presenting Sponsor of Green Building United's 2019 Groundbreaker Awards**, as we work together in pursuit of a greener, more sustainable world.

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Welcome to the 2019 Groundbreaker Awards

The Board of Directors and staff of Green Building United are excited to welcome you to this year's Groundbreaker Awards. A special thanks to Comcast for serving as our event host in their recognizably groundbreaking space. We are deeply grateful to our annual Sustaining Partners and individual members for supporting our efforts to advance a sustainable, healthy, and resilient built environment. We also want to thank this year's Groundbreaker Awards sponsors, whose support makes it possible to come together and recognize green building leadership and innovation across our region.

Tonight we celebrate the Groundbreaker Awards finalists and winners, recognizing our collective efforts in advancing design and building technologies that improve health, save money, and reduce climate impact. In turn, these projects, people, and organizations support a stronger local economy and more stable climate future. We are confident that the work of our finalists and awardees will inspire action and expanded leadership in our region.

We would also like to recognize this year's jurors: Emily Andrews, Executive Director at USGBC Missouri Gateway in St. Louis; Jenna Cramer, Executive Director at Green Building Alliance in Pittsburgh; and Brian Imus, Executive Director at Illinois Green in Chicago. We appreciate their expertise in reviewing project nominations and deliberating on the selection of the eight finalists. A deep thanks to our Host Committee (listed below) for all their work to help make this event a success. Finally, we want to thank you for joining us to celebrate the extraordinary people, projects, and organizations that exemplify our mission to foster transformative impact in our communities through green building education and advocacy.

Alex Dews, Executive Director



Scott Kelly, Board Chair



2019 Groundbreaker Awards Host Committee Members

Adam Cutler, Fern Gookin, Patrick Gray, Alex Grella, Kim Ilardi, Aishu Katta-Adiseshaiah, Christa Kraftician, Anne Larsson, Elizabeth Larsson, Patricia Marts, Daniel Marut, Scott Mazo, Michael Pavelsky, Lizanne Pepin, Madeline Schuh, Ryan Spies, Dr. Dan J. Tisak, Jonathan Weiss

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Yogesh Saoji, Planning and Urban Design Leader, DLR Group

Lisa Shulock, Consultant, Twice Green Consulting

E. Mitchell Swann, Principal, MDC Systems, Inc.

Bahareh van Boekhold, Program Manager, Applied Energy Group

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Congratulations to all the 2019 Groundbreaker Awards finalists!

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2019 Groundbreaker Community Leadership Awardees



Erin Loch

Upper Dublin High School

800 Loch Alsh Avenue, Fort Washington, PA



United By Blue

Flagship Store

205 Race Street, Philadelphia, PA

2019 Groundbreaker Project Finalists



1800 Arch Street

1800 Arch Street, Philadelphia, PA

Owner | Liberty Property 18th & Arch L.P.



2 Liberty Place Chilled Water Plant

50 South 16th Street, Philadelphia, PA

Owner | Coretrust Capital Partners



Anthony Wayne Senior Housing Phase III

1701 South 28th Street, Philadelphia, PA

Owner | Anthony Wayne Senior Phase III LP



Italian Market Passive House

827 Carpenter Street, Philadelphia, PA

Owner | Mark and Liana Ottaviani



Lafayette College Rockwell Integrated Sciences Center

746 High Street, Easton, PA

Owner | Lafayette College



Parkside Edge at Centennial Commons

Parkside Avenue, Philadelphia, PA

Owners | Philadelphia Parks & Recreation/
Fairmount Park Conservancy



Stemmler Hall

3450 Hamilton Walk, Philadelphia, PA

Owner | University of Pennsylvania,
Perelman School of Medicine



Strawberry Mansion Apartments

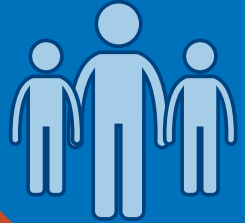
3235 West Berks Street, Philadelphia, PA

Owner | Eric D. Lintner



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Erin Loch | Community Leadership Awardee



Erin (pictured right) is an environmental science teacher at Upper Dublin High School who has crafted an initiative to teach students (pictured above) about sustainable design through the lens of the Living Building Challenge in a project based learning model in collaboration with real-world professionals from the Green Building United community.

Courageous, innovative, and agile, she has created a replicable learning model which has impacted all who have touched the initiative. Her students have fallen in love with learning and nature and have been inspired to a call to action for sustainability.

The volunteers who have witnessed the transformation of these young adults are inspired themselves to move beyond their own work to continue to educate others. The educators and administrators who have observed the class and results are seeking ways to expand the initiative and participate themselves. Parents are grateful for the spark of learning and purpose being ignited in their children.





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JLL is a proud sponsor of
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Congratulations to this years
finalists, and thank you for your
commitment to green building
innovation!

United By Blue | Community Leadership Awardee



United By Blue's Flagship is a physical manifestation of their brand. Their commitment to the environment and sustainability is not only seen in their buildout, but in everything that the company does. For 10 years, United By Blue has been making products with sustainable fabric and manufacturers with a focus on their mission: For every product purchased, United By Blue removes 1 pound of trash from our world's oceans and waterways.

The company organizes and hosts beach and waterway cleanups across Philadelphia and the rest of the country on an ongoing basis to the tune of: 48 states cleaned, 1.7mm pounds of trash removed, and over 13,000 volunteers engaged.

Project Team

Architect/Designer | Re:Vision Architecture

Engineer | Chestnut Engineering

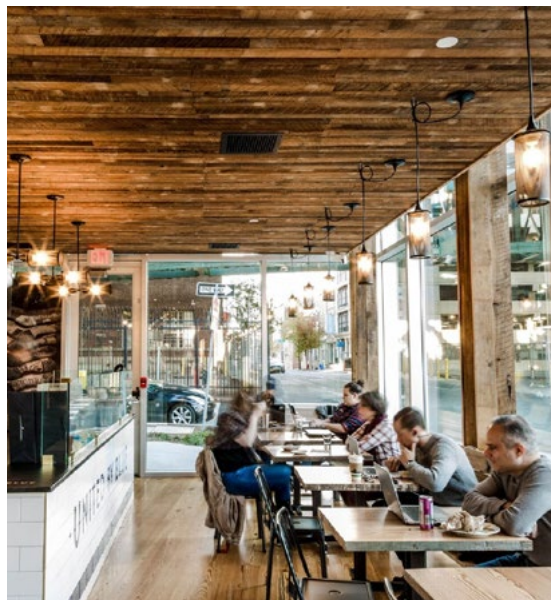
General Contractor | Osborne Construction

Owner | United By Blue

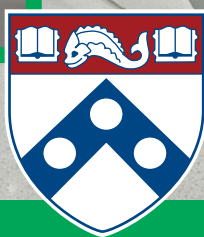
Additional Project Team |

Bridge on Race

Commissioning: Bala Consulting Engineers



Penn celebrates green building leadership, innovation, and impact!



Penn

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Muscoe Martin Green Building Fellowship

During the 2018 Groundbreaker Awards, Green Building United and Penn announced a joint creation of the Muscoe Martin Green Building Fellowship, honoring the life and work of Muscoe Martin. The Fellowship preserves Muscoe Martin's legacy by providing a student applicant in the Environmental Building Design (MSD-EBD) program the opportunity to pursue research and projects that advance green building and sustainable design.

About Muscoe Martin

Muscoe Martin, AIA, LEED Fellow was a lifelong environmentalist, coming of age in the energy and environmental movements of the 1970s. After completing his BA at Princeton in 1978, he worked at the Habitat Center in Berkeley, before completing his Master of Architecture at Penn in 1985. After graduation, he worked with Adele Naude Santos, JacobsWyper Architecture, Wallace Roberts & Todd, and Susan Maxman Partners, before founding his own firm M2.

Muscoe's career in sustainable design and architecture began in the 1980s with his work on solar design. He worked tirelessly to champion green design in both practice and education recognizing the critical impacts of construction on resources, water, energy, and land.

Muscoe was a founding board member of Delaware Valley Green Building Council (now known as Green Building United), Chair of the AIA Committee-On-The-Environment (COTE), a member of the USGBC Board and Sustainable Buildings Industry Council, and a long-time LEED faculty member. Muscoe taught at Penn for nearly 20 years where he helped establish the programs in Ecological Architecture and Environmental Building Design.

"A community must be supported from below – by its inhabitants, present and future."
-Muscoe Martin

The Fellowship

The Muscoe Martin Green Building Fellowship is a continuation of the work Muscoe Martin began at Penn and in Philadelphia. In Summer 2019, Ziao Wang, who is currently pursuing his M.S. in Environmental Design at Penn, was selected as the first Fellowship recipient.

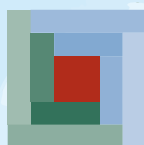
Ziao's fellowship work is focused on reducing energy consumption and carbon emissions, as well as reducing the cost burden for residents in Philadelphia's large, multifamily residential buildings. Working with the team at Green Building United, Ziao is leveraging the data from the City of Philadelphia's Building Energy Benchmarking program, which is managed by Green Building United, to better understand energy use in large residential buildings. He has been leading data analysis and survey work in order to develop engagement strategies that can be used in future outreach efforts.

Green Building United has enjoyed working with Ziao and the Penn team on this project, and is grateful to all of the supporters who have helped launch the Fellowship. If you are interested in supporting its continued success, please consider contributing to the Muscoe Martin Green Building Fellowship Fund at bit.ly/mmgbfellowshipfund

For more information about the Fellowship, please contact Ben Ginsberg at 215-898-0469 or bgins@design.upenn.edu.



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1800 Arch Street | Project Finalist



Also known as the Comcast Technology Center, 1800 Arch Street is a 60-story, 1,121-foot-high vertically integrated mixed-use development located in the heart of Center City Philadelphia. The project encompasses over 1.3 million rentable square feet of open plan offices, a 219-room Four Seasons Hotel together with four public restaurants, and associated ballroom and meeting facilities, broadcast studios, and other uses. Situated virtually atop the regions mass transit system, 1800 Arch is a transit-oriented development housing over 4,000 technology workers, yet contains parking for only 55 vehicles.

The project has been designed to achieve LEED Platinum certification for Core & Shell, as well as interiors. It also incorporates a state-of-the-art chilled beam mechanical system, automated solar oriented shading, as well as passive shading devices incorporated into the building facade.

Project Team

Architect/Designer | Foster + Partners/
Kendall Heaton Associates

Engineer | Thornton Tomasetti

General Contractor | L.F. Driscoll

Owner | Liberty Property 18th & Arch L.P.

Additional Project Team |
Comcast Corporation

MEP Engineer and C/S Commissioning:
Bala Consulting Engineers





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2 Liberty Place Chilled Water Plant | Project Finalist



Two Liberty Place Chilled Water Plant Project entailed the complete redesign and reconstruction of a 4000-ton thermal plant serving a 58-story building, including multi-tenant office, residential condominiums, and restaurant. This project entailed the demolition and removal of two existing 1000-ton chillers and all the cooling towers. Four new YORK hi-efficiency centrifugal chillers and 12 new cooling towers were transported to the 38th floor via the building freight elevators and assembled on site. Additionally, a plate and frame heat exchanger for water-side economizing and a chiller optimization program were installed.

The design/build project was performed on a fast-track schedule and chilled water delivery to the tenants and residents was never interrupted. The project result is a significant (47 percent) energy reduction during the first 10 months of operation.

Project Team

Engineer | Concord Engineering

General Contractor | Falasca Mechanical

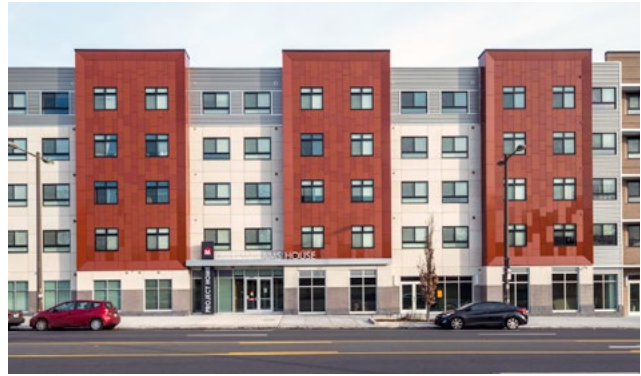
Owner | Coretrust Capital Partners

Additional Project Team |
Property Manager: CBRE
Project Manager: Rich Energy Solutions





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Emma Raymont, Director of Engineering

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Anthony Wayne Senior Housing Phase III | Project Finalist



Anthony Wayne Senior Housing III will be among the first Passive House certified affordable senior housing facilities in Philadelphia. It is also an exemplary demonstration of public-private cooperation between Elon Development, the Philadelphia Housing Authority, and the Philadelphia Redevelopment Authority.

Anthony Wayne Senior Housing III is part of a three-phased transformative project for its neighborhood and surrounding area in Philadelphia. Features include R-10 under full slab, continuous exterior insulation, and high density batts in 2x6 stud cavities, spray foam in band joists, R42-roof, and INTUS triple glazed windows. The project will be certified ENERGY STAR, EGC 2015, and PHIUS+ 2015.

Project Team

Architect/Designer | JKRP Architects

Civil Engineer | Bohler Engineering

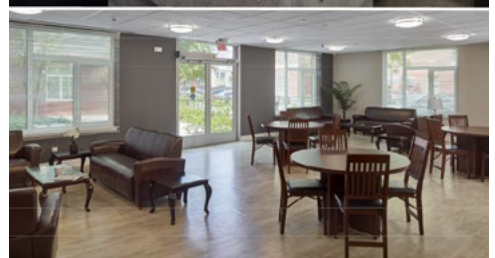
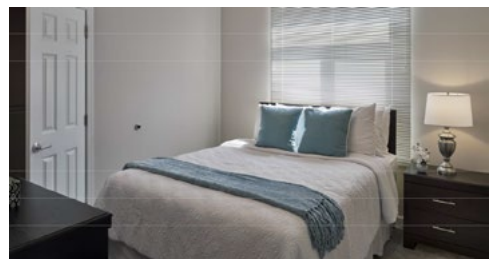
Structural Engineer | O'Donnell & Naccarato

MEP Engineer | Holstein White Inc.

General Contractor: Allied Construction Services

Owner: Anthony Wayne Senior Phase III LP

Additional Project Team |
Developer: Elon Development Co.Inc./
The Altman Group of Cos.





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Italian Market Passive House | Project Finalist



Philadelphia's first PHIUS+ Certified Zero Energy Ready Passive House is a unique hybrid home built atop a warehouse in the Italian Market. The approach combines creative design, building science expertise, construction skills, and dogged faithfulness to the sustainability goals. The "loose-fit" design includes future adaptability - a possible return to mercantile use at street-level, a future aging-in-place elevator, infrastructure to support solar panels, green roof, and roof decks with space to grow carbon.

The sculptural sunshade's tree pattern inspired by the owner's honeymoon memories animates the façade and the interior with shadow play. It shades the double height space in summer and admits free heat during the winter. The sunshade is not merely attractive and interesting; it creatively combines inspiration with building science, like the building. It is a visible reminder how we can live in a low-carbon future today.

Project Team

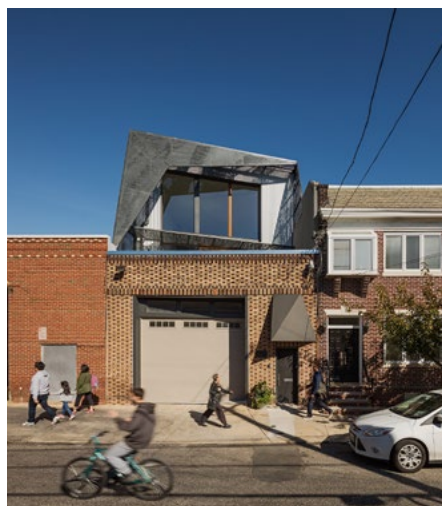
Architect/Designer | Laura Blau/BluPath Design Inc.

Engineer | Bevan Lawson, PE

General Contractor | Hanson Fine Building

Owner | Mark and Liana Ottaviani

Additional Project Team |
Project Architect: Kevin Davey
Sunshade Fabricator: B Fabrication



(215)

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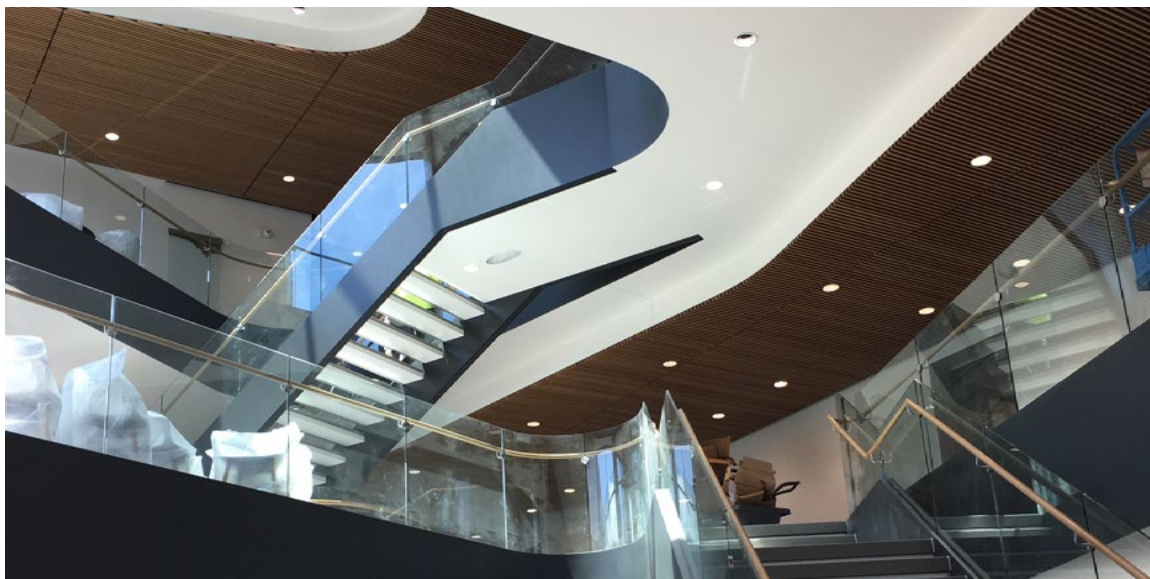
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Lafayette College Rockwell Integrated Sciences Center | Project Finalist



In Fall 2019, Lafayette College will open its largest capital project in history: the 103,000-square-foot, five-story Rockwell Integrated Sciences Center, which embodies Lafayette's commitment to sustainability and innovation. Biology, Computer Science, Environmental Science & Studies, and The Dyer Center (a co-curricular program promoting student creativity through innovation and entrepreneurship) will move into teaching and research laboratories, greenhouse spaces, flexible classrooms, and large collaborative spaces to enhance interdisciplinary inspiration.

Targeting LEED Platinum certification, Rockwell will require substantially less energy than similar academic buildings as the energy consumption benchmark for the building is 49 percent below that of peer science buildings. Sustainable features include filtered green hoods in laboratories, heat recovery enthalpy wheel, air quality monitoring, high efficiency chillers, natural ventilation, and an efficient envelope.

Project Team

Architect/Designer | Payette Associates Inc.

Engineer | BR+A

General Contractor | Turner Construction Company

Owner | Lafayette College

Additional Project Team |
Owner's Representative: Aegis Property Group
Civil Engineer & Landscape Architect: Langan
Structural Engineer: The Harman Group
LEED Consultant: The Green Engineer

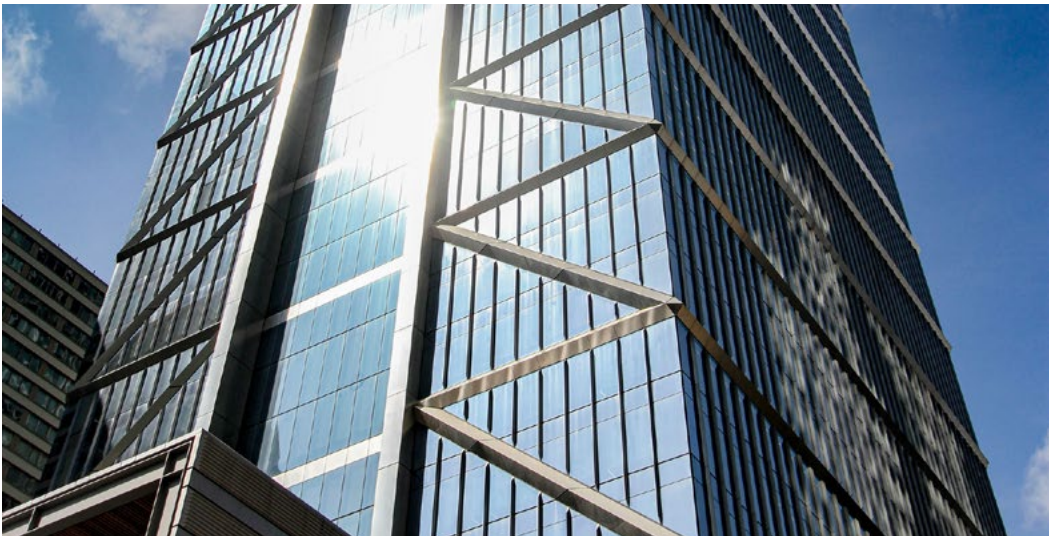


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Parkside Edge at Centennial Commons | Project Finalist



Parkside Edge is the first phase of a transformative park and community involvement project, which creates new neighborhood parklets and green stormwater infrastructure, beautifies the edge of Parkside Avenue in Philadelphia, and creates new (and safer) pedestrian and community connections into West Fairmount Park. Ultimately, it goes beyond the typical park project - to revitalize Fairmount Park and create a new national model for civic common spaces, one fully engaged with the community.

The five-acre site is part of Philadelphia's Centennial Commons district, the historic site of the 1876 Centennial Exhibition. Around it are attractions such as the popular children's Please Touch Museum, the Japanese House and landscape gardens, and a few blocks away the Philadelphia Zoo. Yet, the site was the "hole in the donut", an underutilized void and barrier to the park. The site is no longer a void, and as a result more transformations are on the way.

Project Team

Architect/Designer | Studio Bryan Hanes

Engineer | Langan

General Contractor | Seravalli

Owner | Philadelphia Parks & Recreation/
Fairmount Park Conservancy





Northwest Resiliency Park | Hoboken, NJ



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Stemmler Hall | Project Finalist



Stemmler hall, a massive 230,000-square-foot building in the heart of Penn's medical campus, has provided a space for inspiring research to take place and for students to learn since it was built in 1978. As time progressed and needs changed, the useful life of the building's major mechanical systems and infrastructure declined beyond reasonable repair nearly 35 years after it was built.

The University, employing the latest technological advances, decided to repurpose and upgrade the building's infrastructure and mechanical components. The complete renovation has yielded a state of the art flexible research building, complete with lab space, classrooms and administrative offices. Serving a wide variety of the medical campus' needs, Stemmler Hall has risen to be one of the most energy efficient research buildings on the Penn's campus. With sustainability in mind, this renovation is in-line with Penn's vision and goals as outlined in their sustainability plan 3.0.

Project Team

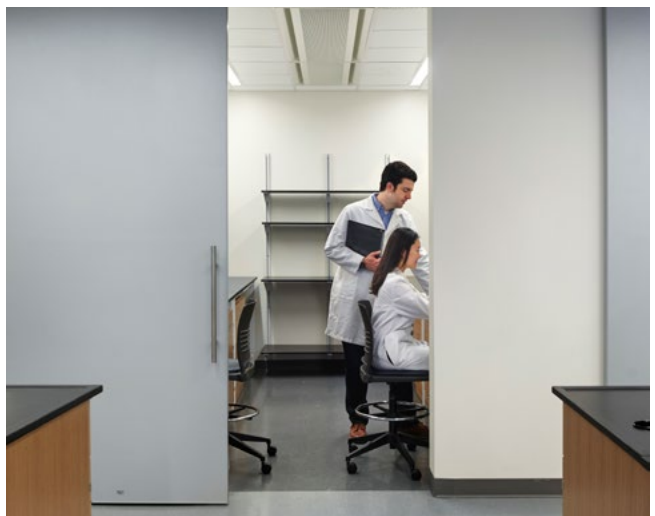
Architect/Designer | Ballinger

Engineer | Ballinger

General Contractor | Torcon

Owner | University of Pennsylvania,
Perelman School of Medicine

Additional Project Team |
The University of Pennsylvania



2019 GROUNDBREAKER AWARDS



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Strawberry Mansion Apartments | Project Finalist



The Strawberry Mansion Apartments complement the ongoing revitalization of the Strawberry Mansion neighborhood in North Philadelphia. The goals and objectives for the development include, but are not limited to, to: develop sustainable housing; maintain a supply of affordable housing in a gentrifying neighborhood through public/private investment; and improve safety in the community.

The development is a certified LEED for Homes “Smart Site Selection Site” for residential infill. The site has flow-through planters and retention basins for stormwater management. Strawberry Mansion Apartments are designed with sustainability and low energy usage in mind, with Energy Star rated appliances and mechanical equipment, and compact fluorescent bulbs throughout. The units are built to Energy Star 3.0 standards and Enterprise Green Communities 2015 criteria for new construction.

Project Team

Architect/Designer | JKRP Architects

Engineer | O'Donnell & Naccarato

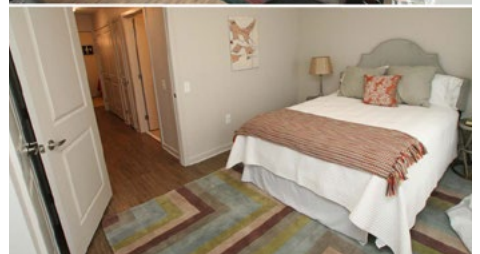
General Contractor | Dale Corporation

Owner | Eric D. Lintner

Additional Project Team |
MEP Engineer: Holstein White

Energy Building Consultants: MaGrann Associates

Commissioning: Bala Consulting Engineers





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Twice Green's Principal, Lisa Shulock, provides program and project management consulting services to companies and organizations in the clean energy business.

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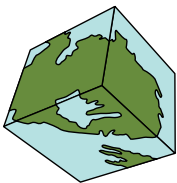
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- Introduction to LEED for Neighborhood Development and the Living Community Challenge
- and more!

bit.ly/GreenBuildingWebinars



Green Building United convenes the **Philadelphia 2030 District**, a key strategy in the city's efforts to mitigate climate change.

This voluntarily effort by the owners, manager, and developers of the city's largest properties works to achieve deep reductions in energy use, water use, transportation emissions, and stormwater management. Property partners have committed more than 21 million square feet to meeting the ambitious goals of the district.

On Tuesday, October 22, join Green Building United for our year two progress report and celebration!

Event Details



2030 District Annual Celebration
Tuesday, October 22, 2019 | 5:30pm - 7:30pm
AKF Group, 510 Walnut St, Suite 1600,
Philadelphia, PA 19106

To register: bit.ly/2030AnnualCelebration

Program Sponsor



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Sustaining Partnership

Sustaining Partners invest annually in Green Building United’s mission to **foster transformative impact in our communities through green building education and advocacy**. Partners see their investment as: being strongly aligned with their Corporate Social Responsibility platform, a great use of marketing dollars, a way to boost staff advancement, and a charitable gift or grant*.

Legacy: There are opportunities to support Green Building United at a level beyond what is listed below. Please contact us if interested in discussing potential opportunities.

	PLATINUM	GOLD	SILVER
Annual Contribution	\$7,500	\$5,000	\$2,500
Free Individual Green Building United Memberships	7	5	3
Website Presence	MEDIUM LOGO	SMALL LOGO	TEXT W/ LINK
Green Building United E-Newsletter	MEDIUM LOGO	SMALL LOGO	X-SMALL LOGO
Use of Green Building United logo	✓	✓	✓
Discounts on Bulk Tickets to Groundbreaker Awards and Symposium (5+)	✓	✓	✓
Ascending placement in The Hub	LOGO	SMALL LOGO	✓
Presence at Groundbreaker Awards and Sustainability Symposium	✓	✓	
Free Tickets to Groundbreaker Awards and Sustainability Symposium	3	2	
Opportunity to Record Webinar for On-Demand Library	✓	✓	
Continuing Education Support	✓	✓	

Our company has been a Green Building United Sustaining Partner since 2009. Some of our deepest client relationships began at Green Building United events. We genuinely wouldn’t be where we are today without the strong and diverse networking environment that Green Building United creates.

– Revolution Recovery

Green Building United is the go-to resource in the greater Philadelphia region for the latest information on the intersection of the built environment and sustainability.

– The Sheward Partnership

Green Building United is making huge strides in advancing sustainable building in our region. Investing in Green Building United is one of the best uses of our corporate dollars and staff time.

– Forbo Flooring Systems

Small Business: Companies with five or fewer employees, please contact us if interested in partnership.

Individual Membership

When you become an individual member of Green Building United, you invest in our mission, and have the opportunity to engage at the local level in green building issues that have community, regional, and global impacts.

Every single event I attend with Green Building United makes me energized and optimistic about our future. My involvement keeps me engaged with movers and shakers in the green building industry. The professional connections I have developed through Green Building United membership have been a huge business advantage.

– Kristen Suzda, Architect, WRT

	Chapter Member	Chapter Member w/ USGBC Member Company Discount*	Student or Emerging Professional**
STANDARD	\$100	\$75	\$25
PRO ***	\$150	\$125	\$75

* Must be employee of a USGBC Member Company to be eligible. See if your company is a USGBC Member by searching at usgbc.org/organizations

** Students must be enrolled full-time and emerging professionals must be out of school and under 30 to be eligible

*** Members who take advantage of the Pro option receive free access to all webinars, valued at up to 30 CEUs

Benefits

- Discounted admission to Green Building United events including educational programs, tours, and LEED exam preparation courses, with opportunities for earning GBCI and AIA continuing education credits
- Free admission to Green Building United happy hours and networking events
- Opportunity to participate in selection of educational topics
- Eligibility to serve on committees and run for seat on Board of Directors
- Opportunity for special recognition in newsletters, social media, and blog
- Select invitation to vote on important Green Building United issues
- Other Member discounts

Leadership Level Members

Members can also support Green Building United by donating at the individual leadership level as a Champion (\$1000), Steward (\$500), or Supporter (\$250). Leadership Members receive all Pro Membership benefits and are specially recognized on our website.

Contact Us: For questions about Sustaining Partnership and Event Sponsorship, please contact Margaret Salamon, Development Director, at msalamon@greenbuildingunited.org. For questions about Individual Membership, please contact Leah Wirgau, Education and Engagement Director, at lwirgau@greenbuildingunited.org.

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