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2019 AIA Fellowship

Nominee Richard C. Yancey

Organization Building Energy Exchange

Location New York, New York

Chapter AIA New York State; AIA New York Chapter

Category of Nomination

Object 4 - Public Service

Summary Statement

Extending his passion for designing sustainably crafted architecture, Richard Yancey has created a pioneering international center of excellence dedicated to building energy efficiency, addressing one of the biggest challenges of our time.

Education

University of Washington Seattle, WA Certificate in Design Firm Leadership and Management
2002 - 2003 (1 year)

Harvard University, Graduate School of Design Cambridge, MA Master of Architecture
(MArch) 1988 - 1992 (3 1/2 years)

Wesleyan University Middletown, CT Bachelor of Arts, Mathematics & Economics 1981 -
1985 (4 years)

Licensed in: Licensed Architect, State of New York, 2010, #034125.
Licensed Architect, State of Washington, 2000, #7743.
NCARB Certification, 2010, #68262.

Employment

Building Energy Exchange Founding Executive Director New York, NY 2009 – Present (9 years).

Beyer Blinder Belle Architects & Planners Associate New York, NY 2005 – 2009 (4 years).

Weinstein A+U, Architects + Urban Designers (formerly Weinstein Copeland Architects) Principal
Seattle, WA 1994 – 2005 (11 years).

Larry Rouch & Company Designer Seattle, WA 1992 – 1994 (2 years).

FXCollaborative Architects LLP
22 West 19th Street
New York, NY 10011
T 212 627 1700
info@fxcollaborative.com



October 7, 2018

Fellows Jury Chair: Mary Cox, FAIA
The American Institute of Architects
1735 New York Avenue, NW
Washington, DC 20006-5292

Re: FAIA Nomination for Richard C. Yancey under Category 4: Public Service

Dear Ms. Cox,

I am honored to have been asked by Richard Yancey to sponsor his submission for Fellowship in the American Institute of Architects. He has almost singlehandedly created one of the most important, and effective, sustainability organizations in the country - the Building Energy Exchange (BE-Ex). He has dedicated himself to architecture as both a practicing architect and an extraordinary leader focused on the common good - something too few of us have been willing to do.

Richard firmly believes, and I concur, that reducing energy consumption is imperative for the survival of our planet. We all struggle to convince our clients to make sacrifices toward this end. In 2009, when incandescent lighting was still the norm and it was taking a huge effort just to convince people to use compact fluorescent lamps, Richard stepped up and started what became BE-Ex. To him, the most critical matter was education. Everyone from politicians, builders, landlords, users, maintenance personnel, industry leaders, architects, and engineers needed to learn about the importance of, and develop strategies for, efficient lighting design. The lack of awareness on all fronts was appalling.

As the BE-Ex took hold, it morphed into a much broader energy focused organization and is now reaching across the globe with a network of International Centers of Excellence on High Performance Buildings (ICE-HPB). The focus remains on education. Given that buildings consume more energy and contribute more green-house gases to the atmosphere than any other component of our civilization, it is essential that those who create, build, use, and maintain them have a full understanding of how they can achieve a minimum footprint and contribute to the wellbeing of the earth.

These are difficult times, especially given the disregard for climate change that is currently prevalent in our government. Not enough of us have dedicated ourselves to providing the leadership that will make a difference. Richard has not only taken on the challenge, but as an architect who has brought years of technical and organizational expertise to the effort, he is unique. It gives me great hope knowing that he is there on the front-lines fighting the battles to save our planet. I know of no one more deserving to be elected to Fellowship.

Sincerely,

Bruce S. Fowle, FAIA, LEED-AP
Founding Principal Emeritus

Richard C. Yancey
AIA, LEED AP

Portfolio for
AIA Fellowship

rcy@be-exchange.org
347 – 255 – 6311

Summary Statement

Extending his passion for designing sustainably crafted architecture, Richard Yancey has created a pioneering international center of excellence dedicated to building energy efficiency, addressing one of the biggest challenges of our time.

Building on a successful career of creating award-winning architecture, Richard Yancey took on the challenge to dramatically scale the impact of his work. Beginning with an unfunded idea and an inchoate conceptualization, in nine years Mr. Yancey has, with his leadership and vision, established the Building Energy Exchange as an innovative international center of excellence that has attracted major civic and business leaders to the Board, global companies and foundations as donors, led to international speaking engagements, and put him on the list of New York's Top Ten Cleantech Leaders.

With buildings responsible for over 70% of New York City's greenhouse gas emissions, Mr. Yancey recognized the power of creating a physical and virtual space that could engage all building stakeholders for effective climate action. As the founding executive director of the Building Energy Exchange (BE-Ex, initially named 'Green Light New York'), Mr. Yancey has led the success of this downtown Manhattan energy efficiency resource center, with more than 500 programs attended by over 12,000 building decisions-makers, actionable reports, informative case studies, and interactive exhibits. Beginning with a primary focus on efficient lighting, Mr. Yancey expanded and rebranded the organization to broadly address all building energy efficiency opportunities. This pioneering center has become the central hub advancing energy efficiency in the built environment, both locally and around the world.

Early on, Mr. Yancey identified the need to engage the many disparate stakeholders that effect building energy use, including: architects, engineers, lighting designers, building developers, owners and operators, policy-makers, and the utilities. To education this diverse community, Mr. Yancey has led the development of a broad set of effective tools for change, including: professional training and topical events; exhibitions to inspire, such as *Celebrate NYC: Building a Sustainable City*; primary research that turns data into action, like *Retrofitting Affordability*; and a growing library of case studies that provide critical lessons drawn from successful projects. With the creation of the *Daylight Hour*, an annual social media campaign that has attracted international participation, BE-Ex has also effectively engaged thousands of building occupants.

Furthering its global reach, BE-Ex was recently recognized by the United Nations Deputy Secretary General, Amina Mohammed, as an effective implementation resource to support the Paris Climate Agreement and UN Sustainable Development Goals. In July 2018, BE-Ex officially became the founding hub for a new network of United Nations Economic Commission for Europe International Centres of Excellence on High Performance Buildings (ICE-HPB), with facilities underway in cities around the world, including: Vancouver, Canada; Pittsburgh, Pennsylvania; Brussels, Belgium; and Wexford, Ireland.

The success of the Mr. Yancey's impact has inspired the city of Vancouver, Canada, which is working with Mr. Yancey to create "BE-Ex West" to actively share Building Energy Exchange training and resources to help drive high performance design throughout British Columbia. Vancouver's Zero Emissions Building Exchange (ZEBx) officially opened its doors in August 2018, and BE-Ex will be providing live-streaming programs and educational materials to ZEBx to assist their goal to accelerate the capacity and enthusiasm of local developers, designers and builders to deliver cost-effective, zero-emissions new residential and commercial buildings in Canada.

From the beginning of his career, Richard Yancey has excelled at leading large diverse teams, harnessing the power of collaboration to create compelling, integrated, and award-winning architectural solutions. As a practicing architect and firm Principal, Mr Yancey led the design and construction of a diverse array of projects, in the Pacific Northwest and Northeast, including: single family homes, market rate and affordable housing, academic, institutional and civic projects, campus planning for leading universities, and large transit oriented developments. His early exploration of maximizing daylight while minimizing energy, presaged a passion for creating compelling spaces that are also efficient. These talents have guided and sustained him in creating an organization which is at the frontier of ideas and action.

Biography

Work History

Building Energy Exchange
 Founding Executive Director
 New York, NY · 2009 – Present

Beyer Blinder Belle Architects & Planners
 Associate
 New York, NY · 2005 – 2009

Weinstein A+U Architects + Urban Designers
 (formerly Weinstein Copeland Architects)
 Principal
 Seattle, WA · 1994 – 2005

Larry Rouch & Company
 Designer
 Seattle, WA · 1992 – 1994

Civic Activities & Affiliations

American Institute of Architects, Member, 2000 – Present

New York City Mayor's Carbon Challenge,
 Technical Advisor, 2013 – present

New York City Mayor's Climate Action Plan,
 Technical Working Group Appointee, 2015 – 2016

US Green Building Council, Corporate Member,
 2013 – present

US Green Building Council, New York Member,
 2008 – Present

Urban Green Council, NY Chapter of US Green Building Council, Advisory Group,
 Green Construction Skills Training for Building Trades and Contractors, 2008 – 2009

AIA Seattle, Committee on Design, Co-Chair, 2004 – 2005

University of Washington School of Architecture,
 Professional Advisory Council, 2002 – 2005

Education

Master of Architecture (MArch)
 1992
 Harvard University, Graduate School of Design
 Cambridge, MA

Certificate in Design Firm Leadership and Management
 2003
 University of Washington
 Seattle, WA

Bachelor of Arts, Mathematics & Economics
 1985
 Wesleyan University
 Middletown, CT

Professional Registrations & Certifications

Licensed Architect, State of New York, 2010, #034125

Licensed Architect, State of Washington, 2000, #7743

NCARB Certification, 2010, #68262

LEED Accredited Professional, 2004

2.1.1

Significant Work: Programs & Training

At the Building Energy Exchange (BE-Ex), the nominee has led the creation of a significant body of training and programs that educate the building industry on energy efficient building best practices and technologies. Already over 500 trainings and events have been attended by more than 12,000 building decisions-makers. Programs range from technical training, to expert panel discussions, to thought-leaders of the sustainability of the built environment. These programs are recorded and made available on the BE-Ex website, to educate the entire building industry.

Selected educational programs, trainings, and events; presented at the BE-Ex center u.n.o.:

■ *Passive House Primer*

multiple locations, on-going

A free lunch-and-learn seminar on Passive House — the high-comfort, ultra low energy-use building standard that uses 70%–90% less heating energy than conventional buildings. Launched in the Spring of 2018, this Primer has already educated over 400 practitioners, and is being franchised to other cities.

■ *Green Light Training*

on-going

A four-part, eight hour training series on lighting retrofits, often the simplest way to save energy, reduce carbon emission, with a fast return on investment. Launched in 2013 and completely revised in 2017, courses include:

- Lighting Codes & Regulations
- LED Lighting: Evaluation & Selection
- Advanced Controls; Types & Functions
- Lighting Retrofits; Strategies & Applications



↑ *WISE: Women In Sustainability & Energy* on-going series

An annual lecture series and networking forum featuring inspirational women thought-leaders who accelerate sustainability programs and energy agendas. To date, there have been 15 programs, featuring 47 women leaders, attended by over 1,500 professionals.



↑ *Turning Data into Action*

August 7, 2018

Panel presentation of groundbreaking BE-Ex report, which transforms NYC's massive building energy data set into actionable packages of retrofit measures recommended at key 'touch-points' in a building's financial lifecycle.



↑ *Mass Timber*

June 7, 2018

Book talk and expert panel discussion of emerging contemporary construction method that provides significant environmental, construction, and aesthetic benefits.



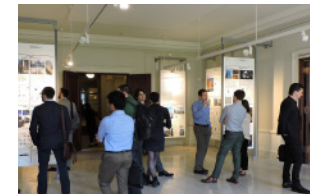
↑ *Tour of the Starret-Lehigh Building* off-site, June 20, 2018

A guided tour of this iconic building's significant energy conservation projects, including lighting, heating, cooling, ventilation and controls systems.



↑ *Scaling Up High Performance Buildings* May 24, 2018

Produced jointly with the Brussels consulate, an international group of policy and professional leaders discussed high performance buildings as a critical component to achieve their cities' aggressive sustainability goals.



↑ *The Fairview: Deep Retrofits in Multifamily Residences* May 8, 2018

A panel of building owners, engineers and contractors shared their experience on completing a comprehensive energy retrofit of a large multifamily building; including the energy saved, system performance benefits, and rebates and incentive programs utilized.

Significant Work: Programs & Training



↑ *Digitizing Building Systems, Maximizing Efficiency: NANTUM*, Feb 26, 2018

Presentation of a new real-time building operating system that collects data from existing, isolated building systems and uses machine-learning to optimize overall building performance and energy savings.



↑ *Better Steam Heat: Upgrades & Incentives*

November 16, 2017

An educational forum on steam system solutions that reduce overheating, quiet clanging pipes, and lower operating costs, including project teams from recently completed projects.

■ *Excellent Ventilation in Multifamily Buildings*

May 24, 2017

A presentation on superior indoor air quality via energy recovery ventilators (ERVs). Architects shared experiences using ERVs in current and past projects to enhance comfort, promote health, and save energy.



↑ *Commercial Building Energy Efficiency*

January 19, 2017

Presentations by leading commercial building owners and tenants who have implemented forward-looking strategies to create high performing office spaces for their workers, reduce their operating costs and enable deeper decision-making when it comes to energy management.



↑ *Big Data, Small Data: Building Energy Data at Different Scales*

October 26, 2016

A presentation and discussion of US DOE data collection platforms to that standardize building performance reporting and provide enterprise scale transparency of data.

■ *Making Passive House the Tall Building Standard*

October 18, 2016

Presentation of a research study conducted by FXFOWLE to determine the viability of implementing the Passive House Standard for tall residential buildings in New York.

■ *Sustainability in Healthcare Facilities*

September 14, 2016

Leading healthcare operators presented strategies for intelligent ventilation measurement and optimization, as well as various other broader approaches to energy efficiency through retrofits and new construction projects.



↑ *Gallery Talk: Sensing the Future Through Lighting*

June 8, 2016

Using interactive content of BE-Ex's *Lighting the Future* advanced lighting exhibit to provide guidance on configuring, selecting and installing advanced lighting, shading, and control systems available, and how those systems can maximize convenience, savings, and flexibility.

■ *The SURE House: 2015 Solar Decathlon Winner*

March 16, 2016

Presentation of the 2015 US DOE's Solar Decathlon winner designed to reduce energy use and adapt to the realities of a changing, more extreme climate. A full scale residential prototype of a sustainable and resilient home for the New Jersey Shore.

■ *The New Sheriffs: CX Agents*

October 21, 2015

A presentation and conversation about the commissioning requirements in the new code, how New York stakeholders are addressing them, and the enforcement process that will be in place to ensure projects are in compliance with these new regulations.

■ *Facade Performance 101*

June 5, 2015

A workshop to provide a baseline understanding of the principles and mechanics related to curtain wall assemblies and related facade cladding typologies, as well as define different approaches and systems related to high performance facade design.

Significant Work: Programs & Training

■ *Tuning the Rock: A Roadmap to Efficiency*

January 22, 2015

A presentation of high energy efficacy gains from retrofitting Rockefeller Center, by the consultant, property management, and facility teams.

■ *Cleantech Early Adoption Roundtable*

November 18, 2014

A presentation of two case studies outlining the successful implementation of early stage, energy-saving technologies in Class A commercial spaces, and moderated discussion of the barriers to early state cleantech adoption.



↑ *Designing with the Sun: Christoph Reinhart*

October 16, 2014

MIT professor presents new book on the physical characteristics of the sun and the human eye, the design fundamentals of allowing daylight to guide the massing and shading of your project, and the tools available to guide analysis.

■ *The Lights Have Eyes*

June 10, 2014

New York Times columnist moderated panel discussion on emerging building systems that collect a vast array of occupancy, including balancing privacy in a connected world.

■ *Building Retrofit Basics*

May 21, 2013

Specialists outlined the most effective lighting and energy system retrofits for small and medium scale commercial properties, including basic lighting retrofits, tuning HVAC systems, and training of personnel.



↑ *Let There Be Daylight*

New York Times Building, January 15, 2013

Presentation on findings of BE-Ex's report on significant benefits of daylighting controls, alongside Lawrence Berkeley National Labs post occupancy study of the New York Times Building's cutting edge daylighting system.

■ *Control Freaks*

Digital Sandbox, April 12, 2012

Panel of leading industry experts explore the state of the art of energy saving lighting and building control systems; real world application experience; and what's in the R&D pipeline.

■ *LEDs on Trial*

Goldman Sachs, NY, November 15, 2011

An expert panel, moderated by the editor of Architectural Lighting, answered questions on the emergence of LEDs; appropriate applications; the current state of lamps and fixtures; and what to expect in the near future.

(Partial list)

2.1.2

Significant Work: Reports & Case Studies

The nominee secured the funding, directed the research, and co-authored all of these efficiency tools, which provide guidance and resources to help building decision-makers dramatically improve the energy efficiency of their buildings. Their clearly written lessons are also published as dedicated pages on BE-Ex's website.

■ Website: *be-exchange.org*

Building Energy Exchange, 2010 – present
Richard Yancey, staff and web consultants
Create and maintain robust, searchable building energy efficiency resource website, including: organizational & community events calendar; past event video library; case studies, resources & reports library; and topical blog. Complete site redesign and expansion in 2015 & 2018.

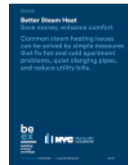


↑ *Turning Data into Action*

Building Energy Exchange, August 2018
Richard Yancey, Adam Hinge, Jeff Perlman, Sarah Newman, Talia Kula
Using New York City multifamily building data to create retrofit packages for key points in a building's financial lifecycle.

■ *New York's Path to Scaling Up Passive House*

"From Small to Extra Large Passive House Rising to New Heights," Low Carbon Productions, 2018
Richard Yancey
An overview of the beneficial context and factors that have contributed to the rapid expansion of the passive house building standard, including a detailed timeline of significant New York City legislation, policies, and events.



↑ *Better Steam Heat*

Building Energy Exchange, November 2016
Helen Chananie, Richard Yancey
Common steam heating issues can be solved by simple measures that fix hot and cold apartment problems, quiet clanging pipes, and reduce utility bills.

■ *Actively Passive*

Sallan Foundation 'Snapshot,' January 13, 2016.
Richard Yancey
Experiencing the exemplary indoor environment of the Passive House building standard, and recognizing its critical climate action policy potential.

■ *Passive NYC*

Building Energy Exchange, November 2015.
Richard Yancey, Yetsuh Frank, Sonali Bhasin
A snapshot of low energy building opportunities, barriers and resources.



↑ *Retrofitting Affordability*

Building Energy Exchange, June 2015.
Richard Yancey, Ellen Abramowitz, Adam Hinge, Jeff Perlman, Conor Laver
Evaluating New York City's multifamily building data for savings opportunities.



↑ *Let There Be Daylight*

Green Light New York (Building Energy Exchange), December 2012
Richard Yancey, Yetsuh Frank, Adam Hinge
A study of the technical, practical, and energy savings potential that advanced daylighting systems can provide to New York City office buildings.



↑ *Case Studies*

Building Energy Exchange, 2012 – present
Richard Yancey and staff
A growing library of energy efficiency project case studies, detailing the opportunities, benefits, and success narratives of targeted energy efficient retrofits, technologies, and system upgrades. These two-four page pamphlets explain the benefits, savings, and technologies, as well as the project teams' stories of overcoming barriers, and provide information on resources and incentives.

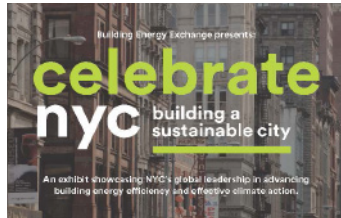
Selected Case Studies include:

- Fashion Institute of Technology: An Energy Efficiency Master Plan, May 2018
- Park Terrace Gardens: Steam Heating Upgrades, Mar 2017
- French Apartments: Steam Heating Upgrades, Dec 2016
- Queens College: Daylight Hour Strategies & Outcomes, Mar 2016
- InfoSys: Daylight Hour in Day-lit Buildings, Dec 2015
- Affordable Housing Energy Efficiency Upgrade, June 2015
- Chrysler Building Spire Retrofit (lighting), April 2015
- Related Companies Office Lighting Retrofit, May 2014

2.1.3

Significant Work: Exhibitions

The nominee led the conceptualization, funding, development, and installation of multiple interactive exhibits, at the Building Energy Exchange. These exhibits educate about energy efficiency, display advanced technology and inspire action; and have been visited by thousands of building decision-makers. Their graphic lessons are also made available as virtual exhibits, on the BE-Ex website, to the educate the entire building industry.



↑ *Celebrate NYC: Building a Sustainable City*
Building Energy Exchange, April 2018 – present
Richard Yancey, Talia Kula, and staff
Celebrate NYC: Building A Sustainable City commemorates New York City's leadership in advancing building energy efficiency and effective climate action. This exhibit provides inspiration and solutions for cost-effective energy efficiency upgrades by showcasing over 60 building renovations and retrofits of all different sizes and purposes.



↑ *Lighting the Future*
Building Energy Exchange, December 2015 – June 2017
Richard Yancey, Ellen Abramowitz, and staff
Lighting the Future was an interactive exhibit on advanced lighting and shading control systems. Showcasing the essential components of a successful retrofit using 'state-of-the-shelf' technologies, the exhibit described the functional and financial benefits available for building owners and tenants.



↑ *Lights, Center, Action!*
Building Energy Exchange, January 2015 – present
Richard Yancey and staff
Lights, Center, Action! is a didactic exhibition that showcases the technology and savings of the retrofitted lighting used through-out the BE-Ex resource center. In two stages (2014, 2017) BE-Ex upgraded all of its original fixtures to demonstrate the technological, economic, and energy benefits of LEDs and advanced controls. Each room showcases a different LED lamp and fixture solution, with educational material explaining the savings and benefits.



↑ *Lighting Fundamentals*
Building Energy Exchange, Jan 2015 – present (partial)
Richard Yancey and staff
The *Lighting Fundamentals* exhibit was created to support new laws that are requiring energy efficient lighting upgrades to all large NYC buildings; as well as a BE-Ex report demonstrating the enormous energy savings potential from harvesting daylight. This exhibit features educational panels about the fundamentals of good lighting design, and the different available energy saving technologies.



↑ *Bright Ideas for a Resilient World*
Building Energy Exchange, April 2014 - December 2015
Richard Yancey, Yetsuh Frank
The first exhibition at BE-Ex's resource center featured low carbon lighting solutions and their ability to empower the underserved and strengthen communities in crisis. The interactive exhibit included multiple lighting fixtures that do not rely on batteries or expensive generation systems which can dramatically improve the resiliency of our community (post Superstorm Sandy) and provide a massive array of benefits to the developing world.

Significant Work: Invited Presentations

International

United Nations 2018 High Level Political Forum, United Nations Secretariat, New York, NY, 7/10/18. “Briefing on High Performance Building Initiative for Missions to the United Nations.”

NAPHN 2015 (North American Passive House Network), Vancouver, Canada, 10/2/15. Closing Plenary remarks, “The NYC Perspective.”

BXI, Medias de Bruxelles TV, Brussels, Belgium, 5/19/15. Interview, aired on nightly news broadcast, discussing NYC fact-finding visit to high performing buildings & civic leaders.

Light + Building, Frankfurt, Germany, 4/2/14, IEECB’14 (Improving Energy Efficiency in Commercial Building Conference); “Capturing Daylight: Transforming Office Buildings toward Advanced Lighting Controls.”

National

ACEEE Summer Study on Energy Efficiency in Buildings 2018, Pacific Grove, CA, 8/17/18. “Turning Data into Action: Using Big Data to Drive Retrofits to Scale.”

United Nations Economic Commission for Europe, Penn State Workshop at the Philadelphia Navy Yard, Philadelphia, PA, 8/2/17. “Framework Guidelines for Energy Efficiency Standards in Buildings, Implementation Strategy.”

NAPHN 2017 (North American Passive House Network), Oakland, CA, 10/6/17. “Achieving High Performance Targets Policy Roundtable.”

ACEEE Summer Study on Energy Efficiency in Buildings 2016, Pacific Grove, CA, 8/24/16. “Jump-starting Passive House in New York City and Beyond.”

Praxis Passive House Symposium 2016, Washington, DC, 6/7/16. “Advances in Passive House Policies in NYC & Brussels.”

Greenbuild International 2015, Washington, DC, 11/20/15. “Big Buildings + Big Data = Big Savings,” with John Lee, Jeff Perlman & Adam Hinge.

Lightfair International 2015, New York, NY, 5/6/15. “Illuminating Change: Living Labs for Advanced Controls.”

Lightfair International 2014, Las Vegas, NV, 6/4/14. “Controlling NYC: Capturing the Benefits of Advanced Controls.”

Greenbuild International 2013, Philadelphia, PA, 11/22/13. “Let There Be Daylight; Deploying Advanced Daylight Controls” with Stephen Selkowitz, Lawrence Berkeley National Lab, and Adam Hinge, Sustainable Energy Partnership.

Lightfair International 2013; Philadelphia, PA, 4/25/2013. “Daylighting; Scaling lighting and shading controls: opportunity, challenges and lessons learned.”

New Building Institute 2012: “Breaking Barriers to Integrated Daylighting and Controls: New Design Solutions for Maximum Energy Performance;” webinar presented by the New Building Institute’s Advanced Buildings and Green Light New York (Building Energy Exchange).”

Greenbuild International 2010, Chicago, IL, 11/18/10. “Rethinking Energy Modeling: Incorporating Non-Traditional Approaches in Simulations for Daylighting, Tenant Interaction and System Operation.”

AIA Seattle, Committee on Design, 4/7/05. “Civic Libraries; Lessons Learned.” Program organizer and moderator.

Regional

Climate Week NYC 2018, New York, NY, 9/25/18, The Climate Group

- Conference keynote: “Imagining Smart Buildings of Tomorrow.”
- Expert panel: “Building Tomorrow’s Cities Today — Renovations Roadmap for our Cities.”

Building Energy NYC 2017, New York, NY, 10/2/17, NESEA (North East Sustainable Energy Association) conference. “The Next Step in Benchmarking: Building Analytics, Big Data and Improved Efficiencies.”

NAPHN 2016 (North American Passive House Network), New York, NY, 6/13-14/16. Breakout sessions lead; “Implementing PH Policies” and “Catalyzing PH Retrofits.”

Building Energy NYC 2016, New York, NY, 10/3/16, NESEA (North East Sustainable Energy Association) conference. “Building Operations: The Front Line of Sustainability Compliance & Green Leadership.”

Building Energy NYC 2015, New York, NY, 10/15/15, NESEA (North East Sustainable Energy Association) conference. “Turning Data into Action.”

Building Energy NYC 2014, New York, NY, 10/16/14, NESEA (North East Sustainable Energy Association) conference. “We’re Burning Daylight.”

Significant Work: Selected Projects

Institutional



↑ *Building Energy Exchange*, New York, NY
Complete renovation and adaptation of former sheriff offices in a landmarked courthouse, into a 6,000 SF energy efficiency resource center, including creating a 100+ seat smart classroom, sophisticated exhibit & technical demonstration spaces, and transforming the lighting & mechanical systems into a model of energy efficiency. (Client and design collaborator with Architecture Research Office)

(Prior to Building Energy Exchange)



↑ *Seattle Public Library's Montlake Branch*, Seattle, WA
Design of a new 8,500 SF branch library, including a reading room with adult, teen, and children's areas, a community meeting room, a staff workroom, along with structured and surface parking. The award-winning project creates a public gathering place and a new focal point for the community. (Principal-in-Charge, Weinstein A|U Architects + Urban Designers)



↑ *Whitman College Baker Ferguson Fitness & Aquatic Center*, Walla Walla, WA · Design of a new 30,000 SF fitness and aquatic center including fitness & exercise areas, an 8-lane collegiate competition pool with spectator seating, student and faculty locker rooms, classroom and administrative offices. (Principal-in-Charge, Weinstein A|U Architects + Urban Designers)

■ *Whitman Sherwood Athletic Center Renovation and Addition*, Walla Walla, WA · Transformation of a 65,000 SF, 1967 athletic facility, including 20,000 SF of new space: varsity practice gym, lobby, dance studios, climbing wall; and the renovations of existing lockers, courts, offices and field house. (Principal-in-Charge, Weinstein A|U Architects + Urban Designers)

■ *Fire Station 10 Replacement Project*, Seattle, WA
Design of a 61,000 SF, public safety essential facility, co-locating Seattle's 15,000 SF Emergency Operations Center, the 15,000 SF Fire Alarm Center, and the 32,000 SF Fire Station No. 10. (Collaborating Principal, Weinstein A|U Architects + Urban Designers)



↑ *City of Seattle West Police Precinct/911 Communications Center*, Seattle, WA · Design of a public safety complex, including a 40,000 SF precinct facility, 15,000 SF communications center, and 45,000 SF for parking and support. (Project Architect, Weinstein Copeland Architects)



↑ *Princeton University Arts & Transit Neighborhood*, Princeton, NJ · Planning, design and development of a new arts and transit neighborhood. The redevelopment includes reconfigured roadways and roundabout to relieve traffic congestion, a multi-modal transportation hub, and a new train station, with retail space and passenger amenities. (Project Manager, Beyer Blinder Belle)



↑ *Red Star Line*, Antwerp, Belgium · The transformation of the existing Red Star Line buildings into a "memory place" reflecting the history of the emigrant experience. The Red Star Line buildings were a place of arrival and departure for millions of emigrants, and were restored to a museum to convey the legacy of the emigrant experience. (Project Manager, Beyer Blinder Belle)



↑ *Harvard Business School (HBS) Master Plan*, Boston, MA
An overall master plan to communicate the school's immediate and long-term needs and vision for expansion to the larger Harvard University and North Allston communities. (Project Architect, Beyer Blinder Belle)

Significant Work: Selected Projects

■ *Neuroscience & Psychology Programming Study*, Princeton University, Princeton, NJ · A program and site study analysis to determine the space requirements for a new, 220,000 SF facility that will support the current and future needs of both the new Princeton Neuroscience Institute and Department of Psychology. (Project Architect, Beyer Blinder Belle)

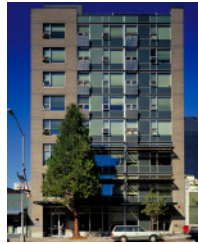
Mixed Use



↑ *95/7 Master Plan*, South Norwalk, CT · The complete concept and master plan for a new, walkable mixed-use neighborhood in South Norwalk, including 450,000 SF of office space, 200 residential units, hotel, sports club, 150,000 SF of retail, and 3,000 parking stalls. (Project Manager, Beyer Blinder Belle)

■ *130 William Street*, New York, NY · The renovation of a 1920s, 12-story office building, located in New York City's Financial District. The project includes a 15-story addition, a new entry, with an elegant bar and restaurant and floating glass pool, a 165-room, fashionable, boutique hotel, and an 80-unit luxury condominium residential tower. (Project Manager, Beyer Blinder Belle)

■ *Saw Mill Lofts*, Hastings, NY · Project Manager for a new, 180,000 SF, 60-unit residential live/work loft development for Ginsburg Development Corporation. (Project Manager, Beyer Blinder Belle)



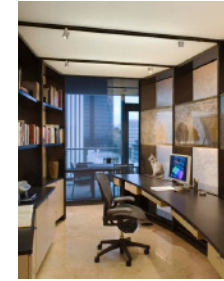
↑ *Senior Services Lillian Rice Center*, Seattle, WA · Design of 25 units of affordable elderly housing, headquarters for non-profit Senior Services, and garden roof terrace. (Principal-in-Charge, Weinstein Copeland Architects)



↑ *The Ventana*, Seattle, WA · Design of 44-unit "high end" apartments, 7,500 SF street level retail, 2,000 SF office, and 32 parking stalls. (Project Architect, Weinstein Copeland Architects)

■ *Belltown View*, Seattle, WA · Co-location of 46 units of affordable housing, new community center, offices for non-profit Low Income Housing Institute, retail and parking. (Principal-in-Charge, Weinstein Copeland Architects)

Residential



↑ *Kusnick Gustafson Condominium*, Seattle, WA · Design of a 2,500 SF shell build-out, custom glass, steel, and wood. (Principal-in-Charge, Weinstein AU)



↑ *River Residence*, Skagit County, WA · Design of an award-winning 5,400 SF concrete, steel and wood residence. (Principal-in-Charge, Weinstein Copeland Architects)

■ *Bowker Residence and Studio*, Seattle, WA · Design of a new artist's studio, substantial remodel and addition. (Project Architect, Weinstein Copeland Architects)

■ *Wong/Caluza Residence*, Mercer Island, WA · Design of a 5,000 SF feng shui residence and apartment. (Project Architect, Weinstein Copeland Architects)

Significant Honors, Awards & Recognition



Corporate Social Responsibility Award: Sustainability & Environmental Impact
April 2017
Outstanding work promoting sustainability in New York, *City & State NY Magazine*

Energy New York Award
2017
High Achievement in Energy Leadership
New York Energy Consumers Council, Inc.

Top Ten New York Energy Entrepreneurs
June 2015
Breaking Energy, Breaking Media, Inc.

Top Ten Cleantech Leaders of New York
June 2013
Breaking Energy, Breaking Media, Inc.

AIA Seattle Chapter, Honor Award, 2008
(Montlake Branch Library, Principal-in-Charge)

AIA Washington, Civic Design, Merit Award, 2008
(Montlake Branch Library, Principal-in-Charge)

First Place; Daily Journal of Commerce, 2007
(Senior Services Lillian Rice Center, Principal-in-Charge)

AIA Project of the Month, 2004
(Senior Services Lillian Rice Center, Principal-in-Charge)

AIA Seattle Chapter, Commendation, 2002
(River Residence, Principal-in-Charge)

AIA Northwest & Pacific Region, Honor Award, 2000
(West Police Precinct/911 Communication Center, Project Architect)

AIA Seattle Chapter, Honor Award, 1999
(West Police Precinct/911 Communication Center, Project Architect)

AIA Washington, Civic Design, Merit Award, 1999
(West Police Precinct/911 Communication Center, Project Architect)

Masonry Institute's International Excellence in Masonry Awards, First Place (Senior Services Lillian Rice Center, Principal-in-Charge)

Significant Publications & Press

THE WALL STREET JOURNAL

Wall Street Journal, 1/12/2015
New Energy Goes into Conserving Power Use;
NYC's Building Energy Exchange Focuses on Ways to Cut
Emissions. Laura Kusisto

SCIENTIFIC AMERICAN

Scientific American, 2/4/2014
Can Sunshine Light Skyscrapers Instead of Bulbs?
David Biello



NY1 – Cable News, 1/19/2015
Interview profile for nightly news of Building Energy
Exchange center opening and exhibit. Josh Robin

POLITICO NEW YORK

Capital NY (now Politico NY), 1/13/2015
State to Provide \$3.5 Million for Building Efficiency Program.
David Giambusso

CRAIN'S NEW YORK BUSINESS

Crains New York, 7/14/2015
These Energy Upgrades could save landlords \$350 million.
Erica Davies



Curbed, 6/7/2017
101 ways to fight climate change and support the Paris
agreement. Patrick Sisson, Megan Barber, Alissa Walker

ENERGYWIRE

EnergyWire 3/4/2015
Energy Efficiency: The desirable, all-natural (and extremely
hard) way to light an office. David Ferris

A·L

Architectural Lighting, 2/11/2013
Retrofitting Daylight Controls in New York City Office
Buildings. Elizabeth Donoff

Energy Squad, 2/27/2013
Green Light New York (a.k.a. Building Energy Exchange).
Soriana Stern

Green Real Estate Law Journal 1/16/2013
The Perfect Storm: Green Light New York Releases Report
on Retrofitting Daylight Controls in NYC Office Buildings.
Stephen Del Percio

REAL ESTATE WEEKLY

Real Estate Weekly, 6/25/2014
Saving money is clear as daylight. Staff

@treehugger

Treehugger, 6/12/2014
Join Daylight Hour and Switch Off the Lights on June 20.
Margaret Badore

Architectural Lighting Magazine, 6/12/2017
Daylight Hour 2017. Staff

HABITAT

Habitat, 12/7/2016
City Launches “Better Steam Heat” Campaign.
Kaya Laterman

Oculus

Oculus, Spring 2011
Shedding Light. Tami Hausman

3.0

Exhibits

3.1

Energy Efficiency Center of Excellence

Building Energy Exchange
New York, NY

3.2

International Network

International Centre of Excellence
on High Performance Buildings
United Nations

3.3

Reports

- Retrofitting Affordability
- Let There Be Daylight

3.4

Social Media Campaign

The Daylight Hour

3.5

Trainings & Forums

- WISE – Women in Sustainability & Energy
- Passive House Primer

3.6

Exhibitions

- Lighting the Future
- Celebrate NYC

3.7

Tools

Playbooks & Case Studies

3.8

Neighborhood Library

Montlake Branch, Seattle Public Library
Seattle, WA

3.9

Aquatic Center

Whitman College
Walla Walla, WA

3.10

Residence

River Residence
Skagit County, WA

Energy Efficiency Center of Excellence

Building Energy Exchange
New York, NY

Firm

Architectural Research Office

Completion Date

Initial launch: 2014; Phase 2 expansion: 2018

Role of Nominee

In late 2009, with no space, no staff, and a tiny seed grant, Mayor Bloomberg's administration turned to Richard Yancey to create an independent lighting design center from scratch, in support of the City's landmark PlaNYC climate action plan. In just nine years, through his leadership and tenacity, Mr. Yancey has built the Building Energy Exchange (BE-Ex) into a tremendously successful energy efficiency resource center, attracting over 12,000 building decision-makers to more than 500 programs; growing a library of actionable reports and informative case studies; and mounting interactive exhibits that demystify energy efficiency. Mr. Yancey has led every aspect of the center's creation, including closely collaborating with Architecture Research Office on the architectural design and overseeing its construction.

Organization Synopsis

Initially conceived to focus solely on lighting, Mr. Yancey quickly recognized that maximizing efficiency would require a holistic approach, providing education on the interaction of systems and the converging technologies that dictate a building's efficiency. To drive successful climate action, Mr. Yancey has created both a physical and far-reaching virtual forum to engage the diverse group of building decision-makers; bringing together international policy-makers, the utilities, real estate owners and operators, architects and engineers. A neutral, trusted

place to convene, discuss, learn, and see how to make our buildings dramatically more energy efficient.

Renovation Project Synopsis

As founding executive director, Mr. Yancey secured 6,000 SF in the New York City's centrally-located historic Surrogate's Courthouse. While growing a dedicated staff and establishing a steady stream of highly-regarded events and resources, Mr. Yancey went about securing over a \$1 million dollars from the City and State, as well as \$500,000 from a capital campaign, to completely transform the center into a model of energy efficiency, including a 100 seat smart classroom, telepresence, and sophisticated exhibit and demonstration spaces. The project carefully integrated replacing the steam radiators and window A/C's with centrally supplied fan coil units, as well as all new high efficiency lightings and controls, which will result in a 60% energy savings.

Selected Publications

Wall Street Journal
NY1 Cable News
Crains New York
Politico (formerly Capital NY)
Oculus

Declaration of Responsibility:

I have personal knowledge of the nominee's responsibility for the project listed above. The project was undertaken as described by the nominee, and under direction of nominee.

Daniel A. Zarrilli

Senior Director of Climate Policy and Programs
and Chief Resilience Officer
New York City Office of the Mayor
New York, NY

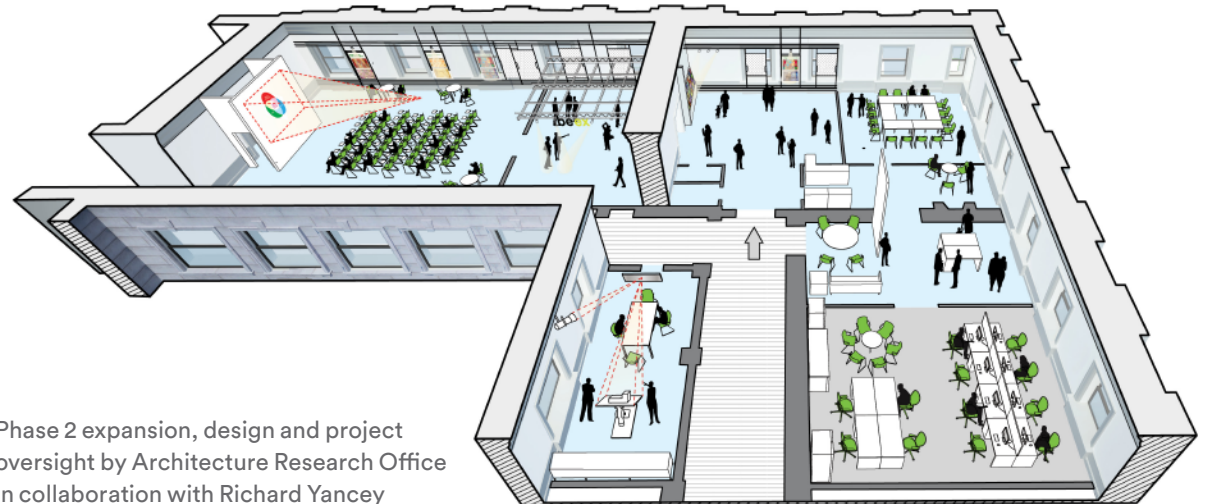


Education program in the new
100 seat BE-Ex classroom



“The Real Estate Board of New York, representing more than 17,000 owners, managers, developers, and brokers of real estate, strongly supports the Building Energy Exchange. The Exchange is a unique and timely asset that provides education and a center of excellence for energy efficiency resources and technology, where best practices can be shared among our industry and the general public.”

John Banks
President
Real Estate Board of New York



Phase 2 expansion, design and project oversight by Architecture Research Office in collaboration with Richard Yancey

“During Climate Week, we announced an unprecedented green buildings plan and made NYC the largest city in the world to commit to an 80 percent reduction in emissions by 2050. Within the next ten years we’re going to retrofit every single public building with any real energy use — and we’ll provide private buildings with the support they need to do the same, reducing emissions, improving efficiency, generating major savings, and creating thousands of jobs. The Building Energy Exchange will provide key support toward that goal as we take on climate change and ensure a greater, greener New York City.”

Mayor Bill de Blasio
City of New York



Mayor Bill de Blasio signs new energy code and legislation requiring a publicly displayed building energy letter grades. (Mr. Yancey center left)

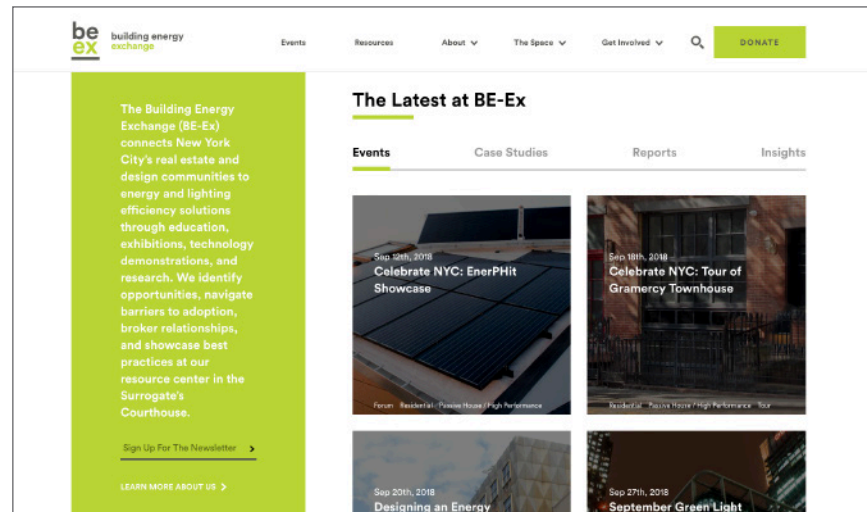


above: Mayor de Blasio visits the newly expanded Building Energy Exchange.

left: BE-Ex networking event

“New York’s future as a center of global innovation will be enhanced by this [Building Energy Exchange] Resource Center, which will help to ensure that we are at the forefront of advances in application of energy saving technology.”

Kathryn Wyld
 President & CEO
 Partnership for New York City



above: Entry donor wall, honoring the many contributors to the BE-Ex expansion capital campaign.

left: National press for initial BE-Ex launch; and landing page of BE-Ex website, which hosts a community calendar, videos of past events, and hundreds of building efficiency tools and resources.

International Network

International Centre of Excellence on High Performance Buildings United Nations

Role of Nominee

The United Nations Economic Commission for Europe (UNECE) is one of the five United Nations Regional Commissions working to implement the UN Sustainable Development Goals. Richard Yancey was an advisor to the UNECE in the development of their international Framework Guidelines for Energy Efficiency Standards in Buildings, which promotes the adoption of aggressive, performance-based codes for buildings. These guidelines were formerly ratified in 2017. To support deployment of the Framework Guidelines and to advance the performance of buildings broadly, Mr. Yancey worked closely with the UNECE to develop and launch a global network of International Centres of Excellence on High Performance Buildings (ICE-HPB), with Building Energy Exchange as the model and lead center.

Project Synopsis

On July 10, 2018, Building Energy Exchange entered into a formal agreement with the United Nations Economic Commission for Europe to become the founding hub of this critical knowledge-sharing network to ensure buildings around the world improve performance to meet the goals of the Paris Agreement. This network will provide on-the-ground implementation assistance, globally, for building owners and developers, contractors, architects, engineers and planning officials. Additional centers are underway in Vancouver, British Columbia; Wexford, Ireland; Pittsburgh, Pennsylvania; and Brussels, Belgium.

The signing ceremony followed formal briefings on the Framework Guidelines and Centers of Excellence network delivered by Richard Yancey and others before the United Nations High-Level Political Forum on Sustainable

Development (HLPF), the primary UN platform for pursuit of the UN Sustainable Development Goals, as well as to the Deputy Secretary General of the United Nations, Amena Mohammad.

The goals of the network are directly aligned with the Paris Agreement and will provide access to best practices and fully vetted solutions for communities pursuing those goals, including the many cities, states and businesses that committed to those goals through America's Pledge. The network will also support the relevant elements of the UN Sustainable Development Goals, and will work with participants in the network to advance solutions that reduce energy demand within the built environment and enable the adoption of renewable energy.

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Scott Foster

Director of Sustainable Energy Division
United Nations Economic Commission for Europe
Geneva, Switzerland



United Nations ECE Executive Secretary, Olga Algayerova, and BE-Ex Executive Director, Richard Yancey, sign a Memorandum of Understanding making BE-Ex the founding United Nations International Centre of Excellence on High Performance Buildings.



“Addressing the challenge of climate change and fulfilling our commitments to the Paris Agreement require leadership and collaboration. Today’s recognition of the Building Energy Exchange for its global leadership is well-deserved and comes at a critical time, as cities like New York step up to lead and fill the void of federal leadership. New York City is proud to partner with BE-Ex as we all work together to build a more resilient city.”

Daniel Zarrilli
Senior Director of Climate Policy and Programs and Chief Resilience Officer
New York City Office of the Mayor

International Centres of Excellence briefing delegation, led by Richard Yancey (center right), of United Nations Deputy Secretary General Amena Mohammad (center, left of Mr. Yancey).

Reports

Retrofitting Affordability, 2015
Let There Be Daylight, 2012
Building Energy Exchange
 New York, NY

Role of the Nominee

Richard Yancey secured the funding, directed the research, and was lead author for each of these pioneering studies, which turned data into an actionable resource. The first analysis using new building energy audit data to help multifamily building decision-makers understand the lowest cost - highest impact energy efficient retrofits, by building type. The second study reveals the enormous opportunity to save energy and money in commercial office building lighting. Mr. Yancey has presented this pioneering work at several national and international conferences, as well as distributed it broadly through city and state programs, the Building Energy Exchange center and website, and through network partners.

Project Synopsis

Retrofitting Affordability analyzes newly available data in the New York City multifamily building sector to identify which buildings, and which energy efficiency retrofit measures, have the greatest potential for carbon reduction, and how these benefits relate to affordability and the City's climate action plan. Due to a very low vacancy rate and a high cost of maintenance, building owners are primarily focused on the day to day concerns of operating their buildings, and energy efficiency has not been a high priority. As a result, these buildings represent a significant opportunity to save energy, cut costs, reduce carbon emissions, improve comfort, and make a meaningful contribution to a healthier, more resilient, and equitable community. This report lights the path to a more efficient and resilient built environment through careful segmentation of the multifamily market and identification of the most commonly recommended energy retrofit measures, connecting these measures

to affordability and ultimately to New York City's climate action goals.

With the onset of more stringent energy codes requiring an increased number of lighting retrofits in existing buildings, *Let There Be Daylight* explores the unique conditions in NYC that present an opportunity to drive substantial demand for advanced daylighting systems. The analysis found that 114 million square feet of New York City office space can easily accommodate comprehensive daylighting control retrofits, reducing electric peak demand by 160 megawatts. "Peak demand" is the time during the day when energy costs the most to produce. It also coincides with the times when sunlight is most available. Therefore, daylighting systems can not only save energy, but to also cut back on the dirtiest, and costliest energy being produced. Deployment of daylighting systems is an opportunity for New York City building owners and tenants to benefit from \$70 million in energy cost savings each year.

Selected Presentations

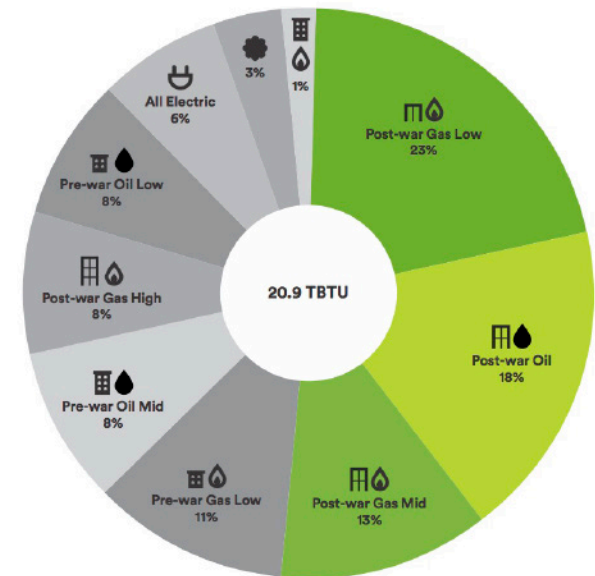
Light + Build, Frankfurt, Germany
 Greenbuild, Washington DC
 Lightfair, Las Vegas, NV
 Greenbuild, Philadelphia, PA
 Building Energy NYC, New York, NY

Declaration of Responsibility:

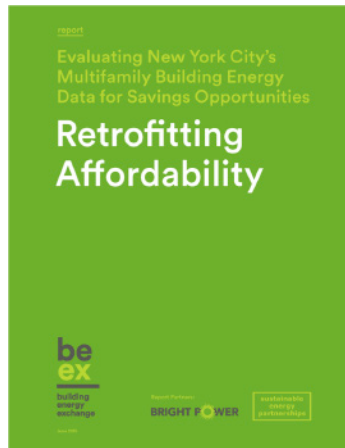
I have personal knowledge of the nominee's responsibility for the projects listed above. The projects were undertaken as described by the nominee, and under direction of nominee.

Adam Hinge, PE, ASHRAE Fellow

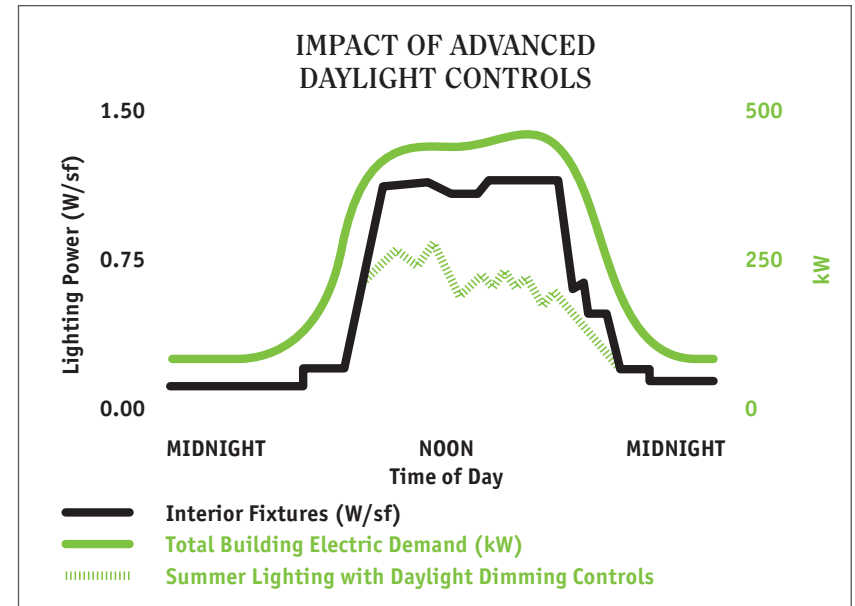
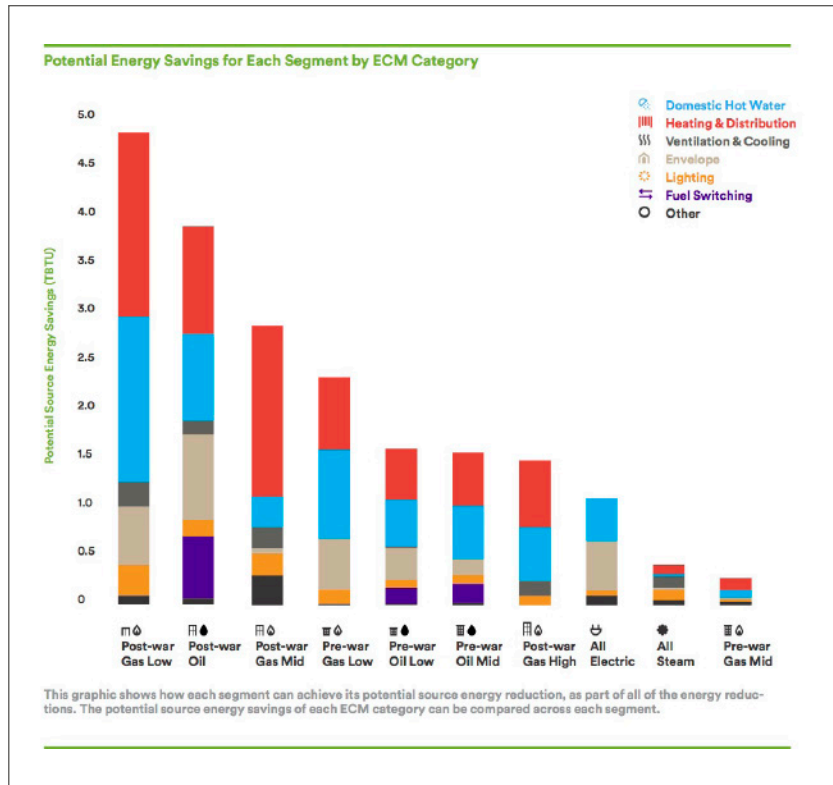
Principal
 Sustainable Energy Partnerships
 Terrytown, NY
 Report co-author



Retrofitting Affordability diagram showing energy savings potential of each major NYC building segment if all Energy Conservation Measures from local law 87 energy audits are implemented. Three building types make up nearly 50% of the savings potential.



below: Graphic from *Retrofitting Affordability* showing how each building typology segment can achieve its full potential energy reduction, comparing the contribution of each Energy Conservation Measure across segments.



above: Graphic from *Let There Be Daylight* showing the total building peak energy demand reduction potential that can be realized by installing advanced daylight dimming controls and fixtures, significantly reducing power usage when its most costly and carbon intensive.

Social Media Campaign

The Daylight Hour

2014 – present

Building Energy Exchange

Global

www.daylighthour.org

Role of the Nominee

Daylight Hour is an annual social media campaign created and organized by the Building Energy Exchange to raise awareness about using natural daylight in lieu of electric lighting in offices. Launched in 2014, under Richard Yancey's leadership and direction, this simple and engaging campaign has gone 'viral,' with offices participating from around the world.

Project Synopsis

Now in its fourth year, the Daylight Hour campaign asks participating offices to turn off their lights in day-lit spaces for one hour on a Friday near the summer solstice. It has been tremendously successful with participation of over 800 offices, in 17 countries, covering a 100 million square feet of space. The 2017 campaign reached 10 million on social media and saved enough energy to power more than 9,400 homes for a day.

Maximizing natural light use is a critical issue because the time when daylight is most available (workday afternoons) coincides with peak demand — the time when our business districts are demanding the most energy from the grid. This peak energy is the most expensive energy, and typically the dirtiest and most harmful to our global climate because the oldest, least efficient plants are brought online to meet this need. Our study, *Let There Be Daylight*, found that owners and tenants in New York City alone could save \$70 million every year by introducing daylight responsive lighting systems. At the same time, balanced day-lit spaces are often the most pleasant to spend time in, and studies suggest these spaces promote our health and well-being, improve productivity and reduce absenteeism. Modern

lighting systems can sense daylight in an office and dim the lights, providing the perfect amount of light to work by while significantly saving energy and money.

Leading up to and during this hour, offices around the world share their involvement on social media, engaging their communities and showcasing their environmental commitment.

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Jan Berman

President
MechoSystems
Long Island City, NY
Board member, Building Energy Exchange
Campaign sponsor



A participating office's photo, shared on Twitter, during Daylight Hour, BE-Ex's social media campaign that engages entire organizations to raise awareness of the energy saving potential of natural light in commercial office spaces.

Daylight Hour

“Through this effort, we have been inspired to explore a range of strategies and to become bolder and more creative in our approach and message.”

Jill Anderson
Senior Vice President of Commercial Operations
New York Power Authority

2016 impact


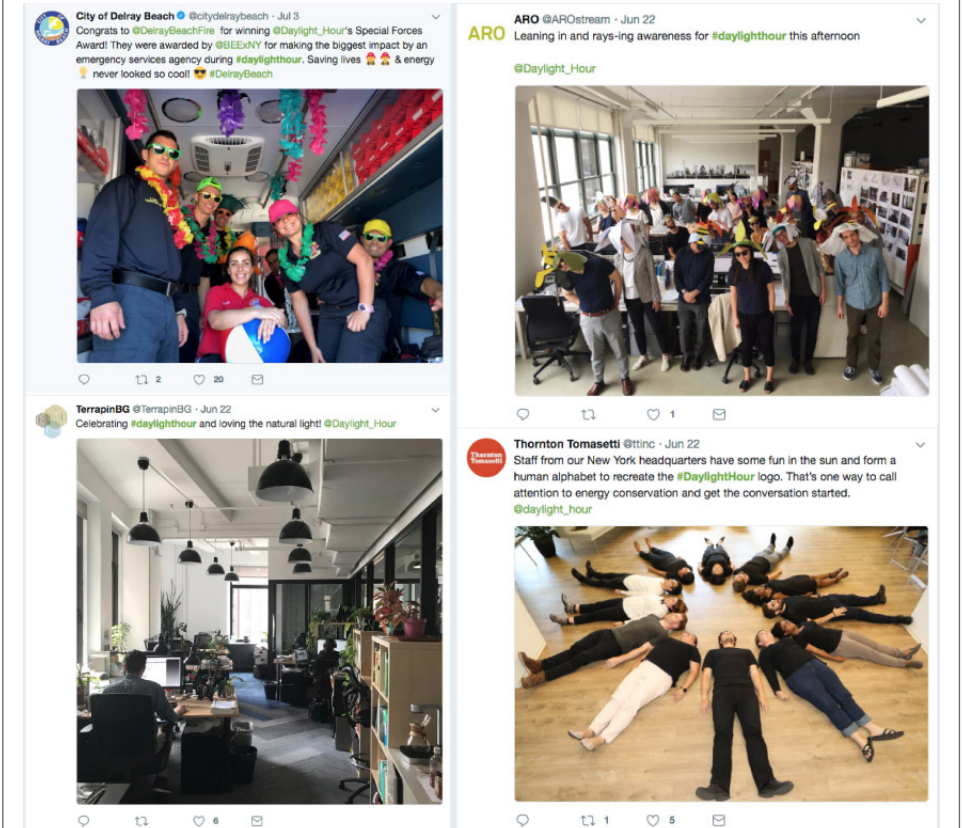
in one hour



			
650 offices	20 countries	10 million people on social media	Savings = 7600 households for one day

2017 impact

included 100 million sf of office space in 17 countries	offset GHG emissions equivalent to 310,000 miles driven in a passenger vehicle
reached 10 million people on social media	saved enough energy to power 9,400 homes for a day

The collage features four tweets:

- City of Delray Beach**: Congrats to @DelrayBeachFire for winning @Daylight_Hour's Special Forces Award! They were awarded by @BEEENY for making the biggest impact by an emergency services agency during #daylighthour. Saving lives 🚒 & energy 🌞 never looked so cool! 🙌 #DelrayBeach
- ARO**: Leaning in and rays-ing awareness for #daylighthour this afternoon
- TerrapinBG**: Celebrating #daylighthour and loving the natural light! @Daylight_Hour
- Thornton Tomasetti**: Staff from our New York headquarters have some fun in the sun and form a human alphabet to recreate the #DaylightHour logo. That's one way to call attention to energy conservation and get the conversation started. @daylight_hour

In 2018, Daylight Hour tweets and social media posts reached over 10 million people.

Trainings & Forums

WISE — Women In Sustainability and Energy

2015 – present

The Passive House Primer

2018 – present

Building Energy Exchange

New York, NY

Role of the Nominee

With a light touch, Richard Yancey mentored the enthusiasm of two junior BE-Ex staff in the creation and development of the pioneering WISE series, and has continued to guide and oversee its growth, success, and funding. Richard Yancey conceptualized, secured funding, and oversaw the development and delivery of the Passive House Primer trainings.

Project Synopsis

WISE (Women In Sustainability and Energy) is a lecture series and networking forum, created by the Building Energy Exchange, featuring inspirational women thought-leaders who accelerate sustainability programs and energy agendas. This initiative promotes dialogue and inspiration for both women and men, on topics such as construction, finance, technology and policy, providing an opportunity for professionals to learn from industry leaders.

Launched in 2015, this annual series has produced 15 sold-out events, featuring 47 women leaders, attended by over 1,500 professionals, receiving overwhelming enthusiasm and support with over 600,000 impressions on social media. An on-going initiative, WISE supports the leaders of today and provides a platform for the next generation of women in this critical industry.

The *Passive House Primer* is a one-hour seminar, created by the Building Energy Exchange, on the high comfort, ultra low energy-use Passive House building standard, developed in Germany 20 years ago. Buildings that meet the Passive House standard use up to 90% less energy than typical buildings and have excellent indoor air quality, comfort, and resilience in the face of extreme weather. Recognizing the need to widely raise awareness of this standard, which is beginning to gain momentum in North America as an effective tool for climate action, BE-Ex launched a free 'lunch & learn' seminar, in the Spring of 2018, to broadly educate architects, engineers, as well as building owners, developers, and contractors. The Primer has already trained over 400 practitioners, and is being franchised to other cities.

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Jill Anderson

Vice President
Southern California Edison
Rosemead, CA
(former Executive Vice President, Chief Commercial Officer, New York Power Authority; and Vice Chair, Building Energy Exchange)



Women sustainability thought-leaders share inspiration and insights in the BE-Ex Classroom.

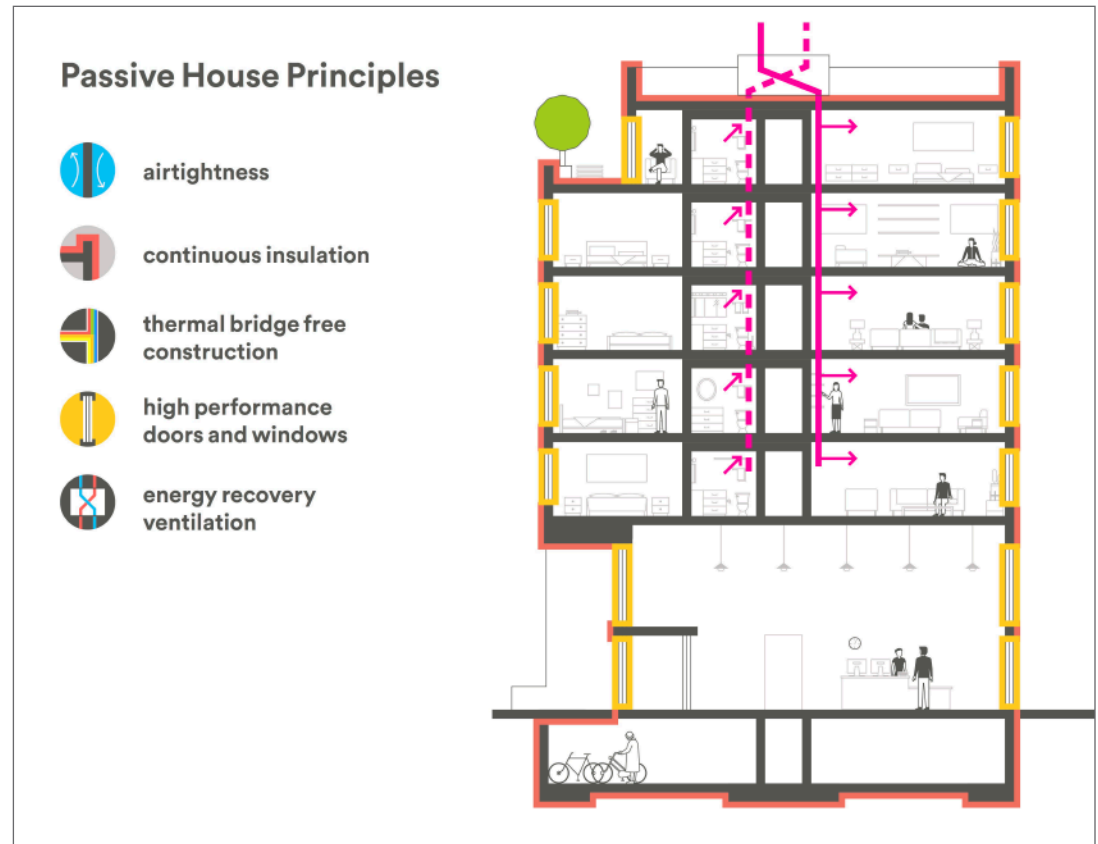
wise women in sustainability and energy



Cover of annual summary briefing featuring speakers from past WISE series

“BE-Ex’s WISE series is helping to develop the next generation of sustainability leaders. As both a speaker and a participant, I have found that WISE is not only inspirational, but also offers high quality content around the critical questions facing the sustainability and energy communities.”

Dale Bryk, Chief Planning and Integration Officer,
Natural Resources Defense Council



Slide from Passive House Primer, which graphically highlights the five major principles of the Passive House building standard. The Primer offers a very visual and plain english introduction the basics and benefits of this important high-performance standard.

Exhibitions

Lighting the Future, 2016
Celebrate NYC: Building a Sustainable City, 2018
Building Energy Exchange
 New York, NY

Role of the Nominee

As Executive Director, Richard Yancey conceived, raised-funding, and led teams of staff and consultants in the creation, production, and marketing of these two important exhibits, mounted at the Building Energy Exchange and viewed by thousands of visitors to the center. Mr. Yancey also initiated an education series of 'gallery talks,' that use the exhibits as a teaching tool to educate on the lessons conveyed in each exhibit.

Project Synopsis

Lighting the Future, showcased the technology and processes of a successful commercial lighting retrofit. Visitors could see and interact with the latest shading, fixture, and control technologies, while gaining an understanding of how to select and install these systems. An effective lighting retrofit saves both money and energy, while greatly increasing functionality, performance, and occupant comfort. A BE-Ex study, *Let There Be Daylight*, found that implementing lighting retrofits across New York City's 542 million square feet of commercial real estate would save owners over \$70 million annually, and reduce greenhouse gas emissions by 2.3 million metric tons. On average, more energy is expended lighting commercial offices than for heating or cooling those spaces. Recent advances in technology, and a history of neglect due to code loopholes and other factors, make lighting retrofits an enormous opportunity to reduce New York City's carbon footprint.

Celebrate NYC: Building a Sustainable City showcases 60 energy efficient building retrofits, featuring upgrades and improvements of existing buildings throughout New York City. The exhibit highlights a broad variety

of system upgrades such as lighting, HVAC, envelope, controls, conveyance, and resilience upgrades, in a diverse array of building types, from market rate and affordable residential buildings, to commercial properties, schools and universities. *Celebrate NYC* honors the great work that has already been accomplished, and inspires others to act with real, successful examples.

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Stephen Selkowitz

Affiliate: Building Technology and
 Urban Systems Division
 Lawrence Berkeley National Laboratory
 Berkeley, CA
 Exhibit technology subject expert



Interactive energy efficiency lighting controls and fixtures exhibit at BE-Ex: *Lighting the Future*



anatomy of a retrofit

Understanding the process and players at the beginning of a retrofit can make the project easier and more successful.

1. identify



Identify your project manager; define your needs and energy savings goals; determine your stakeholders, budget, and schedule.

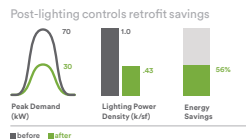
2. select technology

Using your goals and specific needs to guide your team, work with a lighting designer and/or distributor to determine the functions you want from your lighting and shading system. This allows you to optimize comfort, savings, and energy efficiency in your space.



3. finance

Capital costs can be reduced through incentives from NYSERDA, Con Edison, and other programs. Financing is available through many lenders and from non-profits like NYCEEC.



4. install & commission

Task your project manager with continual oversight during procurement, installation, and commissioning in order to avoid problems and delays. Retrofits are often more complicated than new construction, requiring on-going attention to the process.

5. educate

Successful projects require education that targets all stakeholders, from executives to operations staff. Case studies and other online resources from BEEx can help build the case for an advanced lighting control system retrofit.

#lightingthefuture

“Under Governor Cuomo’s nation-leading energy strategy, New York is making energy efficiency upgrades in buildings a priority to cut energy costs and significantly reduce greenhouse gas emissions from our building stock. BE-Ex’s Celebrate NYC exhibit will showcase examples of this important work that can serve as models for other building owners and contractors to follow.”

Alicia Barton
President & CEO
New York State Research & Development Authority

celebrate nyc building a sustainable city



Tools & Resources

Case Studies & Playbooks Building Energy Exchange New York, NY

Role of Nominee

Richard Yancey secured the funding, directed the research, and co-authored all of these efficiency tools, which are designed to provide the knowledge, confidence, and resources to help building decision-makers dramatically improve the energy efficiency of their buildings.

Project Synopsis

To provide tools for action, the Building Energy Exchange, under Richard Yancey's leadership, has created a growing library of resources for building decision-makers. Available in both print and searchable web formats, each case study exemplifies clear and critical lessons of real-world energy efficiency retrofits and renovations. These tools not only provide the objective data on savings, technologies, strategies, and benefits, but also tell the stories of how each project team surmounted the challenges of project implementation. BE-Ex's many case studies cover a comprehensive range of key building system opportunities for efficiency improvements.

Mr Yancey has also directed the development of technical Playbooks and Briefings, which provide guidance for both building decision-makers and policy-makers. Playbook topics have included: Passive House opportunities and resources; advanced lighting systems; and steam heating improvements that cut emissions while reducing utility bills.

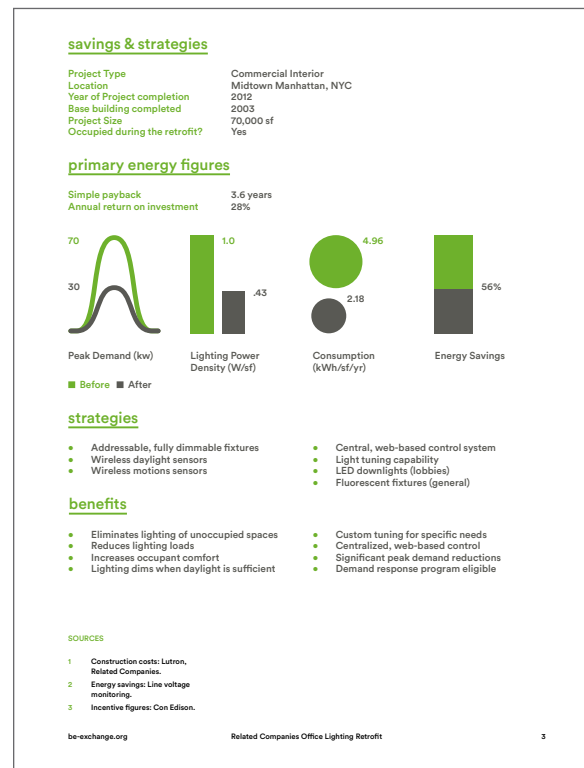
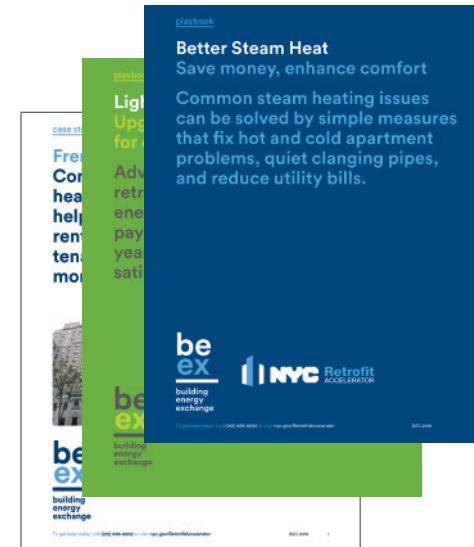
Each resource is launched with well-attended panel discussions between project team-members (owner, architect, engineer, contractor, manufacturer, etc.), explaining their motivations and the strategies that helped to ensure project success, which are taped and shared globally through BE-Ex's website.

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Jonathan Flaherty

Senior Director of Sustainability
Tishman Speyer
New York, NY
Board Chair, Building Energy Exchange



Neighborhood Library

**Montlake Branch
Seattle Public Library
Seattle, WA**

Firm

Weinstein A+U

Completion Date

2006

Role of Nominee

Design Principal in Charge

Project Synopsis

Montlake is a single-family neighborhood near the University of Washington. For the library, a constrained steeply sloping site offered an opportunity to address both the civic and the residential scale of the neighborhood. The library location is adjacent to the community's one-block long commercial district.

The structure was set into the hillside, creating a pedestrian plaza at the southeast corner and hiding the structured parking garage. A two-story glazed entry lobby at the plaza level serves as an invitation to the public to come up to the main reading room. At the upper level, an intimately scaled courtyard leads to the secondary entrance. This entrance serves the adjacent residences and a nearby elementary school.

The community meeting room is located at the upper level above the parking garage. It is visible from the lower public plaza. The staff workroom, break room, and office are contained in a residential-in-scale, one-story volume. In turn, this forms a protected garden, visible from the reading room. The upper level also looks out to an Arboretum view.

The library uses daylight throughout to guide circulation, provide much of the indirect illumination, and create both intimate reading nooks and a large, northern-lit reading area, while minimizing electric use. The raised floor provides for a low-volume, highly efficient mechanical system.

Selected Awards

AIA Seattle Honor Awards for Washington Architecture, Honor Award
AIA Washington Civic Design Awards, Merit Award

Declaration of Responsibility:

I have personal knowledge of the nominee's responsibility for the project listed above. The project was undertaken as described by the nominee, and under direction of nominee.

Justine Kim

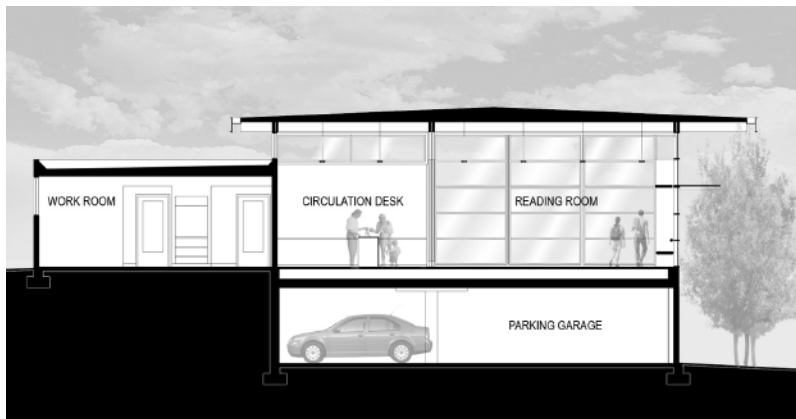
Partner, Shiels Obletz Johnsen, Inc.
Seattle, WA
(former Senior Projects Manager, Seattle Public Library Capital Program Office)
Owner's Project Manager





“This fine little building has a strong civic presence. It successfully integrates the varying scales of its neighborhood, richly fulfilling the program of the community library. The simple spatial agenda, clarity of organization, and remarkable diversity of space render a civic building that is extremely thorough and cleanly expressed...”

2008 AIA Seattle Design Awards jury



Aquatic Center

**Whitman College Baker Ferguson
Fitness & Aquatic Center**
Walla Walla, WA

Firm

Weinstein A+U

Completion Date

2006

Role of Nominee

Design Principal in Charge

Project Synopsis

Whitman College is consistently ranked as one of the top liberal arts colleges in the United States. To continue to attract the most qualified students, Whitman requested a state-of-the-art student fitness center. The Baker Ferguson Center combines two essential components: a new fitness center and an eight-lane collegiate competition swimming pool. Locker rooms, coaches' offices, meeting rooms, and spectator seating for the swimming pool are located in a two-story bar that separates the tall volumes of the fitness center and the swimming pool.

Daylight was maximized in the two active spaces, which allowed for dynamic interior environments while minimizing electric use. In the pool area, glazing is limited at the street level to provide privacy for the swimmers. Above, continuous windows provide abundant daylight, but studied to minimize glare. In the fitness area, the relationship is reversed: the continuous lower window wall provides expansive views of the campus and expresses the activity of the fitness center on its exterior. The mechanical system was optimized for efficiency.

Declaration of Responsibility:

I have personal knowledge of the nominee's responsibility for the project listed above. The project was undertaken as described by the nominee, and under direction of nominee.

Peter Harvey

Treasurer and Chief Financial Officer
Whitman College
Walla Walla, WA



Residence

River Residence
Skagit Country, WA

Firm

Weinstein Copeland Architects

Completion Date

2002

Role of Nominee

Design Principal in Charge

Project Synopsis

The rural Northwestern Washington site has two distinct environments: a riverfront with expansive views to the south, and wooded uplands to the north. A series of walls, following the contour of the land, organize the site and program. The walls begin as low stone walls that form terraced gardens, and culminate in concrete walls that form the circulation spine and sky lit gallery of the main house. The concrete walls provide a transition and an edge between the two environments of the site.

The main house is divided into a public wing (Living, Dining, Kitchen) stretches to the east, and the private wing (Library and Master Suite) to the west. The solid, insulated concrete walls to the north contrast with the wood and high performance glass window wall to the south, which opens to expansive views of the river and mountains beyond, and provides natural ventilation. The main circulation spine and art gallery is dramatically top-lit with daylight. The insulated radiant slab is connected to a high performe boiler. The roof, supported by the concrete walls and steel columns, extends beyond the window wall to provide shelter from the sun, wind, and rain.

Selected Awards

AIA Seattle Honor Awards for Washington Architecture, Commendation

Declaration of Responsibility:

I have personal knowledge of the nominee's responsibility for the project listed above. The project was undertaken as described by the nominee, and under direction of nominee.

Barbara Dingfield

Owner/Client
Seattle, WA



Residence



Richard C. Yancey
AIA, LEED AP

