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2024 AIA Fellowship

Candidate William Patrick Babbington
Organization Studio NYL
Location Lakewood, Colorado
Chapter AIA Colorado;

Category of Nomination

Object 2 (Practice Management, Technical Advancement) > Practice (Technical Advancement)

Summary Statement

Will Babbington AIA shares technologically-advanced strategies for architectural enclosures, enabling collaborators award-winning latitude in their design vision and advancing the Profession's insight into sustainability and energy efficiency.

Education

University of Colorado at Denver, 2004-2007, Master of Architecture
Colorado State University, 1994-1998, Bachelor of Science in Civil Engineering

Licensed in:

Colorado
Minnesota

Employment

Studio NYL | The SKINS Group, 2012 - current
URS Corporation, 2010 - 2012
University of Colorado at Boulder, 2006 - 2013
Studio Completiva, 2006 - 2008
J.R. Harris and Associates Structural Engineers, 2002 - 2005
Reigstad and Associates Structural Engineers, 2000 - 2001
CRSS Constructors, 1998 - 2000



28 September 2023

Lisa Lamkin, FAIA, Chair 2024 Jury of Fellows
The American Institute of Architects
1735 New York Ave. NW
Washington DC 20006-5292

RE: College of Fellows Nomination for William P. Babbington AIA PE
Object 2- Technical Advancement

Dear Chair Lamkin and Members of the 2024 Jury,

I am pleased to sponsor the nomination of William P. Babbington AIA PE for AIA Fellowship in 2024 in recognition of his transformative advances to the technology of our Profession. Both Architect and Structural Engineer, Will has stretched perceived limits of Envelope Design, collaborating with some of our Profession's most renowned firms here and abroad to realize their design vision. He is sought out for unexpected solutions which are concise, simple and elegant.

A nationally-recognized interdisciplinary expert, Will's work includes policy, envelope energy efficiency, materials science, structural detailing and integration of architecture with structure. For the last decade Will has shared his innovative research with all members of our Profession and the building industry, organizing and speaking on the future of new technology in architectural design and materials through AIA Knowledge Communities, as well as NIBS (National Institute of Building Sciences), ASTM (American Society of Testing and Materials), FTI (Facades Tectonics Institute), BETEC (The Building Enclosure Technology and Environment Council) and local BEC's (joint ventures between the AIA and NIBS).

As a fellow AIA Colorado member, I have appreciated his years fostering communications between other Chapters and industry leaders in areas not yet charted by books or articles.

Determining that limitations in architectural technology could be attributed to basic vocabulary and definitions, Will took on the responsibilities of Alternate AIA Representative to ASHRAE 90.1 (American Society of Heating, Refrigerating and Air-Conditioning Engineers) Envelope Subcommittee on new and revised energy code language. He is currently Vice Chair of the National AIA Performance Knowledge Community and served as Design Assist and Delegated Design Contracts Reviewer for the AIA Contract Document Committee, working to clarify often-misunderstood project delivery methods, which are a key aspect of his successful technological advances in architecture.

On a personal level, I was gratified to enlist Will's expertise in a small, yet significant addition to Breuer's iconic St. John's Campus in Minnesota. His determinations and detailing were crucial in respect to Breuer's design and our work there. Will also developed an innovative suspended glass wall for our Aviation Hall at the National Museum of World War II Aviation, blending architectural artistry with technical structural precision to create details essential to realizing my vision for these projects.

Will Babbington AIA PE works with structure and architecture the way poets work with language. He is a master of the artistry of technical detailing. Will's ripple-producing accomplishments and leadership are those we highly value in the College of Fellows.

Please join me in recognizing Will as a Fellow.

Sincerely, Gregory M. Friesen, FAIA – Principal, CSNA Architects

William P. Babbington
AIA, NCARB, PE

2023 AIA Fellowship Application
Object 2: Practice - Technological Advancement



1.0 Summary of Achievements - Object 2: Technological Advancement

Will Babbington AIA shares technologically-advanced strategies for architectural enclosure, enabling collaborators award-winning latitude in their design vision and advancing the Profession's insight into sustainability and energy-efficiency.

Collaborative Enclosure Performance Design

Both Architect and Structural Engineer, Babbington's practice consistently achieves coalescence of high design and high performance. Most often sought/ embedded as a design team collaborator early in the conceptual process, he has given Architects of Record around the world new opportunities to realize cutting-edge design innovations that had previously seemed unobtainable.

Babbington's enclosure solutions range from elegant simplicity to geometric complexity. In his precedent-setting structural designs and when celebrating the use of traditional materials, Babbington's mastery of structural technology increases energy performance and sustainability within the unique aesthetics of each project.

As a leader of one of a handful of firms in the country specializing in Enclosure Engineering and Design, Babbington's innovative collaboration has been with both preeminent award-winning firms and with architects searching to find experimental enclosure solutions to better humanity.

The technological advancement within the Profession that Babbington has wrought encompasses both theory and practice, proving that the intrinsic inclusion of enclosure design is a vital part of the architectural process. His practice ripples through the Profession demonstrating that little is impossible with the rigor of innovation and reflection on earth's environmental and human needs.

Industry Leadership and Knowledge Sharing

In concert with his passion for the advancement of enclosure technology in architectural design, Babbington continues to lead essential discussions on Building Science in the Profession, in the Building Industry, and in Government.

From his entry into AIA grassroots communication initiatives in 2013 shortly after achieving his MArch, Babbington has expanded coalitions between the National **AIA** and organizations such as NIBS (National Institute of Building Sciences), ASTM (American Society of Testing and Materials), ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers), FTI (Facades Tectonics Institute), and the GSA (U.S. General Services Administration).

Babbington is a leader in multiple AIA National groups, serving on the AIA Building Performance Knowledge Communities (BPKC) as Vice Chair, offering technical knowledge to guide and support other **AIA National Knowledge Communities** such as COTE (Committee On The Environment) and HRC (Historic Resources Committee). In this role, he served also as **AIA's National Liaison** to NIBS Building Enclosure Technology and Environment Council (BETEC) charged by the U.S. Government with encouraging optimum energy use through a better understanding of how complex building components interact with each other and the environment.

Babbington's ripple continues with his energy efficient code initiatives on ASHRAE 90.1 Energy Standards's Envelope SubCommittee and beyond.



Red denotes AIA event

2.0



Helios Education Foundation Net-Zero headquarters self-shaded facade - Phoenix, AZ

2.1 Summary of Achievements - Object 2: Technological Advancement

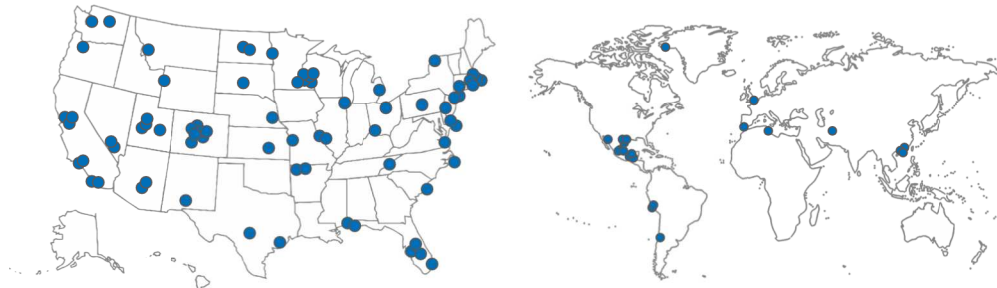
Collaborative Enclosure Performance Design

Will Babbington AIA, Architect and Engineer, has developed within the Profession progressively more innovative facade possibilities, high performance building skins, and seminal technical details through his specialization of enclosure design.

In concert with many of today's most pace-setting architectural firms, Babbington's paradigm enables and expands architectural vision. An exceptional architectural design collaborator, he most often embeds his expertise and inventiveness with each architectural design team of record. Sharing his reach, Babbington's work is a recognized influence across the Profession and building industry, consistently advancing parameters of energy-efficiency, sustainability and durability.

The ripple effect of Babbington's technologically-driven enclosure designs have reached around the world, covering a wide variety of building types, scales, budgets, materials, technologies, complexities and climate zones.

The images below indicate Babbington's project locations and range of collaboration:

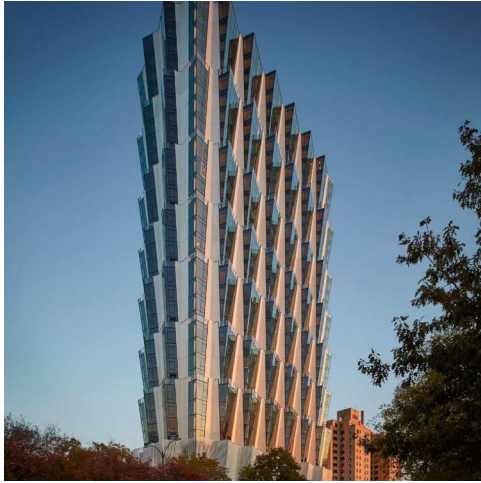


A select list of Babbington's Architectural/Design collaborators includes:

Studio Gang Architects
Marlon Blackwell Architects
Bohlin Cywinski Jackson
Snow Kreilich Architects
Payette
SHoP
TEN Arquitectos
Rojkind Arquitectos
NADAAA
WORKac
Leers Weinzapfel Architects
MSR Design
Gensler
Perkins & Will
Fentress Architects
Pei Cobb Freed and Partners
Skidmore Owings and Merrill
HKS Design
Page/
BNIM
Cunningham Group Architecture
HGA
Hufft
Utile
SmithGroup
EHDD
Alliance
CSNA Architects

Chicago, IL
Fayetteville, AR
New York, NY, Seattle, WA
Minneapolis, MN
Boston, MA
New York, NY
Mexico City, Mexico
Mexico City, Mexico
Boston, MA
New York, NY
Boston, MA
Minneapolis, MN
Denver, CO
Boston, MA, Minneapolis, MN
Denver, CO
New York, NY
New York, NY
Dallas, TX
Denver, CO
Kansas City, MO
Denver, CO
Minneapolis, MN
Kansas City, MO
Boston, MA
Denver, CO
San Francisco, CA
Minneapolis, MN
Colorado Springs, CO

2.1 Significant Work - Collaborative Enclosure Performance Design



One Hundred Tower

St. Louis, Missouri | 2020 | Residential Tower

with *Studio Gang Architects*

Babbington led the design and engineering of the architectural façade, offering architects freedom for overall massing by offering multiple thermal bridging strategies for the four- or five-floor tiers each topped by generous outdoor spaces. The “complex exterior skin that addresses condition of natural light and solar gain, and splay[s] upward in a pattern of oblique angles... contort[ing] in both directions... and reducing excess energy loss and condensation issues.” Architectural Record: May 1, 2021.

- 2022 UG Glass Magazine Design Award for High-Rise Const.
- 2021 Winner-Residential Multi-Unit, AN Best of Design Awards
- 2021 Shortlisted, Building of the Year, Residential Hospitality ENR Midwest Jury Award Winner, Multi-Unit Housing, Highrise Category, Architizer A+ Awards



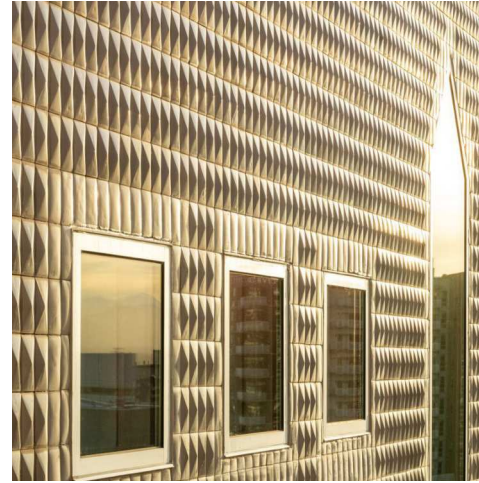
Roxbury Branch of the Boston Public Library

Roxbury/Boston, Massachusetts | 2021 | Wood Curtain Wall

with *Utile Architects*

Babbington, as structural engineer and lead designer for this AIA COTE TOP TEN AWARD WINNER, focused on developing a low-embodied carbon wood curtain wall in an energy efficient and durable constructible design. Existing library was stark concrete visually turning away from the historically African American community. The new structure on the base of the old is visually inclusive, giving equity to the surrounding community.

- 2021 **AIA COTE Top Ten Award**
- 2021 **AIA/ALA Library Building Award**
- 2021 **AIA New England Design Honor Award**
- 2021 **BSA Sustainable Design Award**
- 2021 **BSA Honor Award of Design Excellence**
- 2021 Boston Preservation Alliance Preservation Achievement

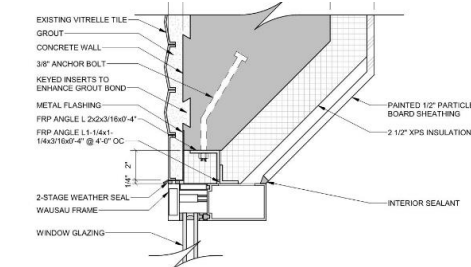


Denver Art Museum Facade Revitalization

Denver, Colorado | 2015 | Restoration and Expansion

with *Tryba Architects*

Babbington developed multiple strategies to decrease interior destruction from condensation due to artwork-mandated high humidity levels. He **also developed strategies to repair and reattach Ponti's existing glass ceramic cladding tiles** which had been popping off the building for years. The solution was the use of structural silicone sealant to replace the mortar of the fallen tiles, maintaining Ponti's aesthetics.



Energy upgrade window detail

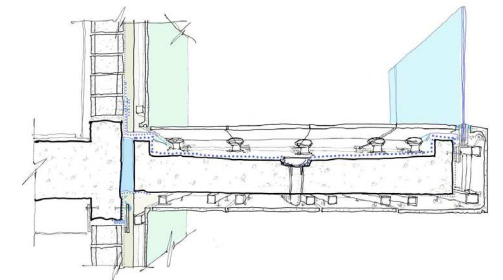


Beirut Museum of Art

Beirut, Lebanon | 2026 | Occupiable Outdoor Façade

with *WORKac*

As Architectural Façade Lead, **Babbington developed an innovative occupiable façade structure that creates exterior exhibit spaces for viewing sculpture.** Designed to hang off the building, the deep façade also shades the museum's interior. A glass guardrail allows viewers to actually walk around sculptures as well as ascend and descend from floor to floor.



Balcony concept sketch

2.1 Significant Work - Collaborative Enclosure Performance Design



The Morrison

Los Angeles, California | Anticipated 2025 | Historic Hotel Addition

with *SHoP Architects*

Adding to the site of the eponymous historic Los Angeles hotel, The Morrison, two new towers would sit upon the base with a well-known Gallery, **Babbington, as Architectural Façade Lead**, developed a custom curtain wall around the hotel's lower floor conference room, transparent where needed for display and translucent where privacy is required. Babbington engineered a dynamic operable glass element for the upper level of the base. Babbington also designed the façade of the shorter of the two towers with terra cotta tiles that match those of the historic hotel.



Tecnológico de Monterrey Library Building

Monterrey, Mexico | 2017 | Library

with *Sasaki*

As Structural Engineer as well as Façade Design Lead, Babbington developed a semi-bespoke curtain wall that provided shade from the intense sunlight while embracing the dramatic cantilevered open reading plaza. Babbington's solution was easily and swiftly constructed.

- 2019 Fast Co. Innovation by Design Awards, Honorable Mention, Spaces, Places and Cities
- 2019 Fast Co. Innovation by Design Awards, Finalist Best Design North America Category
- 2018 **BSA Honor Award for Design Excellence**
- 2018 **AIA New England Design Awards, Honor Award**
- 2018 XV National and International Biennial of Mexican Architecture, Honorable Mention
- 2018 American Library Association Design Award

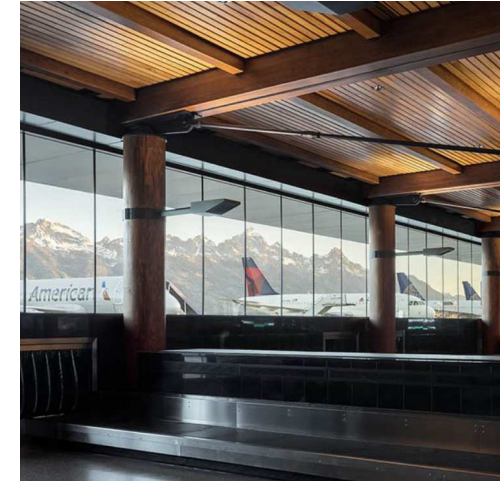


Wesleyan University Science Building

Middletown, Connecticut | Anticipated 2024 | Double Skin Façade Wall

with *Payette*

Payette's solution visually enjoining the new structure with an historic brick University building across the Green was realized in **Architectural Façade Lead Babbington's** development of an analytically substantiated triple-glazed custom double skin facade designed with integrated yet invisible mechanically-assisted air vents using natural air buoyancy to maintain top energy efficiency in the high-performance science building. The immense collaborative efforts sparked by Will's efforts led to a high performing glazed window system that maximizes the architectural vision of transparency out over the campus.



Jackson Hole International Airport

Jackson Hole, Wyoming | 2014 | Airport Expansion

with *Gensler*

Collaborating with Gensler's approach to design, particularly airports, **Babbington's Façade Lead** used invisible design to open the traveler to the visible magnificence of the Teton Mountain Range. Serving five different national airlines and the only airport located in a National Park, Jackson Hole Airport required extensive gate geometry while maintaining a sense of place to engage travelers intent on a mountain vacation. Babbington's millionless glass wall system built of standard curtain wall components offers energy efficiency with a non-stop view, more than the designers ever thought possible.

- 2014 **AIA Institute Honor Award for Architecture**
- 2014 Outside Magazine - Travel Awards - Best Airport - Runner Up



Red denotes AIA award

2.1 Significant Work - Collaborative Enclosure Performance Design



St. John's University Learning Commons

Collegeville, Minnesota | 2020 | with Gregory Friesen FAIA

with *CSNA Architects*

As a bridge between Marcel Breuer's Alcuin Library (1966) and Friesen's Learning Center respecting Breuer's iconic campus work at St. Johns University, **Babbington developed a suspended glass wall connector** that wrapped around to a glass floor at the critical moment.

2010 **AIA Colorado South Merit Award**



Ceramic shade fins installed



Chedraui Flagship Store

Mexico City, Mexico | 2013 | Grocery Flagship Store

with *Rojkind Arquitectos*

Babbington helped the architects realize their fantastical architectural intent combining a one-off **sweeping curvilinear façade with a Green roof** for growing vegetables sold in the store **and on the Living Green Wall that screens the parking structure**, all in a highly reactive seismic region.

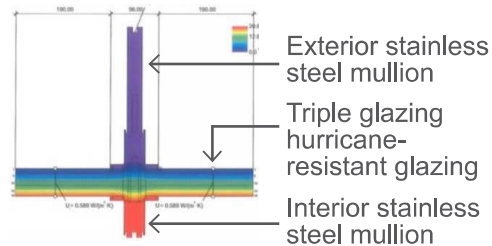


Sagaponack Residence

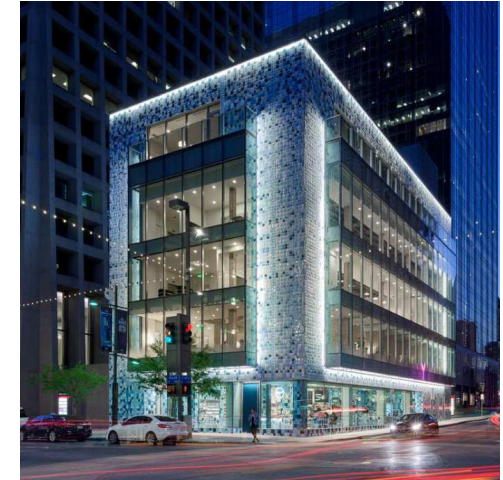
Sagaponack, New York | 2015 | Custom Curtain Wall

with *Bohlin Cywinski Jackson*

Just after new codes were enacted in the Hamptons after Hurricane Sandy, **Babbington was asked, as Façade Architectural Lead**, to develop a custom curtain wall for this seaside home. Enjoying work at all scales, he engineered a custom triple glazed stainless steel curtain wall with integral exterior shades and giant operables to withstand hurricane winds.



Custom curtain wall energy design

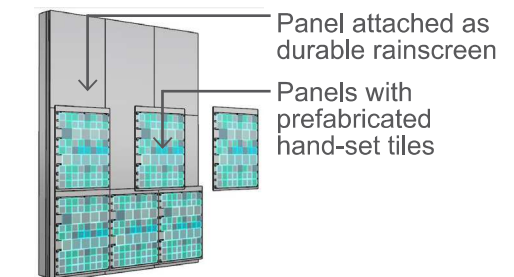


1217 Main Street Renovation

Dallas, Texas | 2017 | Tile Reclad

with *5G Studio Collaborative*

As **Façade Architectural Lead**, **Babbington** engineered the re-cladding of this corner in downtown Dallas. With its resultant vibrant visual texture, the renovation revitalized the entire area and suggested a new design vocabulary for the sometime-conservative region. Babbington developed a panelized cladding system of ceramic tiles applied in a manner increasing durability and sustainability.



Tile rainscreen concept

AIA Red denotes AIA award

2.1 Significant Work - Collaborative Enclosure Performance Design



Thunder Valley Net Zero Climate Resilient Housing

Pine Ridge Reservation, South Dakota | 2017 | Single Family Affordable Housing *with ferguson pyatt architecture*

In Babbington's leadership on the **AIA Climate Action and Equality Committee**, he suggested that the Pine Ridge Reservation was worthy of consideration in the Equity discussion. **Babbington took the lead in creating durable simple enclosure systems** with details that could be built easily and efficiently by people on the reservation. His concept of teaching residents the basics of Building Science expanded into the hope for creation of tribe-operated building industries, still to be realized.

- 2017 AAP American Architectural Prize - Social Housing Honorable Mention
- 2017 AAP American Architectural Prize - Green Architecture Honorable Mention
- 2017 AAP American Architectural Prize - Architectural Design Honorable Mention



Boulder Commons Net Zero Office Building

Boulder, Colorado | 2017 | Net Zero Development Project *with Coburn Partners*

Working within this **developer-driven project**, Babbington created a **framework of enclosure design details and analyses** to determine the most cost-effective project-specific design to achieve Net Zero. Proving his successful work, the building was chosen as the Headquarters of the iconic Rocky Mountain Institute.

- 2019 Green Good Design Awards, Green Architecture, The Chicago Athenaeum
- 2019 Green Building of the Year, Colorado Green Building Guild
- 2019 Green Lease Leaders Award, Institute for Market Transformation and the Department of Energy
- 2017 Colorado Green Building Guild | Green Building of the Year



Helios Education Foundation

Phoenix, Arizona | 2021 | Net Zero Office Building *with Architekton*

Aiming to empower first-generation scholars, this dynamic Foundation building visually supports success. As **Façade Project Manager**, Babbington **devised holistic enclosure strategies** that speak to the importance of energy performance. Configuring vast overhangs to decrease solar gain, supporting geometrically complex cladding systems, with continuous thermally broken cladding attachments, Babbington's solutions decreased the energy needs of the mechanical system to achieve Net Zero.

- 2021 **AIA Arizona Sustainability Award**
- 2020 NAIOP Office Build-to-Suit Project of the Year



Lumen at Beacon Park

Detroit, Michigan | 2018 | Park Pavilion and Restaurant *with Touloukian Touloukian*

Babbington's Architectural Façade Lead in this year-round "outdoor restaurant opening directly onto one of the City's downtown public parks speaks to the hopeful revitalization of urban Detroit. Babbington's contributions included the design of green roofs and operable walls.

- 2020 Architizer A+ Awards Finalist
- 2019 **BSA Design Award**
- 2019 USGBC MA GREEN Building Showcase, Honorable Mention - Innovation
- 2019 International Architecture Awards - The Chicago Athenaeum
- 2019 Architizer A+ Awards, Hospitality Finalist
- 2018 American Architecture Award - The Chicago Athenaeum
- 2018 **BSA Hospitality Design Award**
- 2018 **AIA Detroit Honor Awards, Building Category**

2.1 Significant Work - Collaborative Enclosure Performance Design



Hudson Yards Metal Podium Facade

New York, New York | 2018 | Custom Metal Facade

with Zahner Metal Fabrication

As **Architectural Façade Lead**, **Babbington** expanded this fabricator's creativity and performance design capabilities, developing a testing protocol for the custom curved perforated stainless steel panels at the base of this much-discussed collection of towers.



Custom cladding wind testing apparatus



Colorado State University Water Building

Denver, Colorado | 2023 | Research Facility, Iconic Screen Wall

with Hord Coplan Macht

Babbington, as Façade Project Manager, guided design aspirations for this ultra-sustainable experiential learning project highlighting preservation of each of eight watersheds in Colorado. Pushing cutting edge fabrication toward a landmark design that reflects its public program, Babbington helped achieve LEED Gold Certification and 2023 Excellence in Sustainability Award through his sewer heat collection system.

- 2023 Excellence in Sustainability Award, National Association of College and University Business Officers
- 2023 LEED Platinum



Portland Art Museum Rothko Pavillion

Portland Oregon | anticipated 2024 | Art Museum Addition

with Heneberry Eddy Architects

Working hand-in-hand with the architectural design team as **Façade Project Manager**, **Babbington** increased their own enclosure design capabilities in this new glass jewelbox gateway spanning two historic museum buildings. Using a "tricked-out" standard curtain wall system for the base of the slender glass skin, Babbington's thorough seismic zone testing allowed floating knife-edged canopies to cantilever off the curtain wall along with a custom glowing white glass rainscreen. Even the loading dock becomes a captivating moment in Oregon's rainy humid climate.

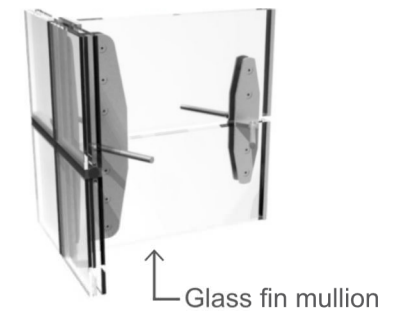


Spokane International Airport Gate Expansion

Spokane, Washington | anticipated 2026 | Expansion and Reconstruction

with Alliance

Two wings of a 144,000 expansion of Concourse C slated to be LEED certified benefitted from **Façade Project Manager Babbington's** expertise, detailing a high-performance custom exterior glass expanse of curtain wall with finely-porous fritted glass fins shading the same glass wall that they also support.



Exterior glass fin wall with low profile connections and bracing

AIA Red denotes AIA award

2.1 Significant Work - Object 2: Technological Advancement

Industry Leadership and Knowledge Sharing

Babbington's legacy as a leader in **AIA** state and national committees stretches beyond the past decade and has resulted in continually widening knowledge and expanding possibilities for architectural design. That Babbington is internationally recognized as an innovator in the design and engineering of Building Envelopes makes him a sought-after source and leader on new ideas. The latitude of his past work creates a Ripple through the Profession and building industry that fosters excellence in building energy performance and sustainability.

In a joint initiative with NIBS and ASTM, Babbington was tapped to be a developer/trainer for an industry-wide Building Enclosure Commissioning Certificate. Chosen by legendary Wagdy Anis FAIA as one of five architects who would have the ability and knowledge to create a bridge between building science and architecture, Babbington's contribution was the framework of a new multi-module Certification Program to standardize the new role of Building Enclosure Commissioning (BECx) in the industry. The new **AIA/NIBS/ASTM Certificate Training Program**, on which Babbington serves, will allow the BECx Professional to achieve that status and create a metric on which to base their proven expertise.

In concert with **AIA National**, Babbington volunteered as an alternate **AIA Representative** on the **AIA National Codes + Standards Committee**. As an alternate **AIA Representative of the AIA ASHRAE 90.1** Envelope Subcommittee, he has been instrumental in the rapidly-evolving codes and standards that develop energy-efficient code definitions into the initial ASHRAE vocabulary.

On the **AIA Contract Document Committee** and currently serving as Design Assist and Delegated Design Contracts Reviewer, Babbington has offered the Profession up-to-date enclosure-based insight, guiding architects in applying emerging, often misunderstood and undefined project delivery methods.

Babbington's input as current Vice Chair of the **AIA National Building Performance Knowledge Community Leadership Group** includes serving as **AIA Liaison on the Executive Committee to NIBS**, continuing to promote current online technical resources and knowledge for the Profession. His work on **AIA's Definition Project**, currently on Phase II – Fenestration + Building Performance Strategies for Climate Action and Resiliency aim at again defining and clarifying terms for Architects to use in their day-to-day practice. Babbington is also in the midst of representing the Profession's interest in increasing the presence of Building Science Education in architecture, engineering and construction curricula.

As a result of Babbington's thoroughly-tested and documented energy- and cost-saving work for the GSA (General Services Administration) of the U.S. Government, he has been requested to serve on the National Registry of Peer Professionals for projects in the GSA's Design Excellence Program, as well as their Sustainability and Climate Opportunity Review and Engagement Service.

From grassroots **AIA** to his current national leadership roles, Babbington has proven the Ripple Effect of his definitive practice and knowledge sharing into the future of the Profession.



Red denotes AIA event

2.1 Significant Work - Industry Leadership and Knowledge Sharing

AIA Committees

AIA National Building Performance Knowledge Community

Leadership Group, Vice Chair, 2022-present
AIA Liaison to National Institute of Building Sciences, 2022-present
AIA Climate Action+Equity Cross Committee Leadership Project, 2022
Definitions Project Subcommittee
Phase I-Control Layer Terms - Developer, 2018-2021
Phase II-Fenestration + Building Performance Strategies for Climate Action and Resiliency Terms - Developer, 2021-present

AIA National / National Institute of Building Sciences (NIBS)

Building Enclosure Council National, Past Chair, 2022-present
Building Enclosure Council National, Chair, 2020-2022
Building Enclosure Council National, Vice Chair, 2018-2020
Building Enclosure Council National, Secretary, 2016-2018

AIA National Codes+Standards Committee

Alt. Representative ASHRAE 90.1 Envelope Subcommittee, 2020-present

AIA National Contract Documents Committee

Design Assist + Delegated Design Contracts Reviewer, 2020-2021

AIA Colorado - Building Enclosure Council Subcommittee

Past Chair, 2016-present
Chair, 2015-2016
Programs Director, 2014-2015
Secretary, 2013-2014

Other National Committees

National Institute of Building Sciences (NIBS)

Building Enclosure Council National (joint committee with AIA)
Building Enclosure Technology and Environment Council Executive Committee, 2016-present

American Society of Testing and Materials (ASTM)

Committee E06 on Building Performance of Buildings Voting Member, 2014-present
Building Enclosure Commissioning Certificate joint initiative with NIBS, Certificate Developer Trainer, 2017-present

Facade Tectonics Institute (FTI)

Special Advisory Council, Co-Chair, 2021-present

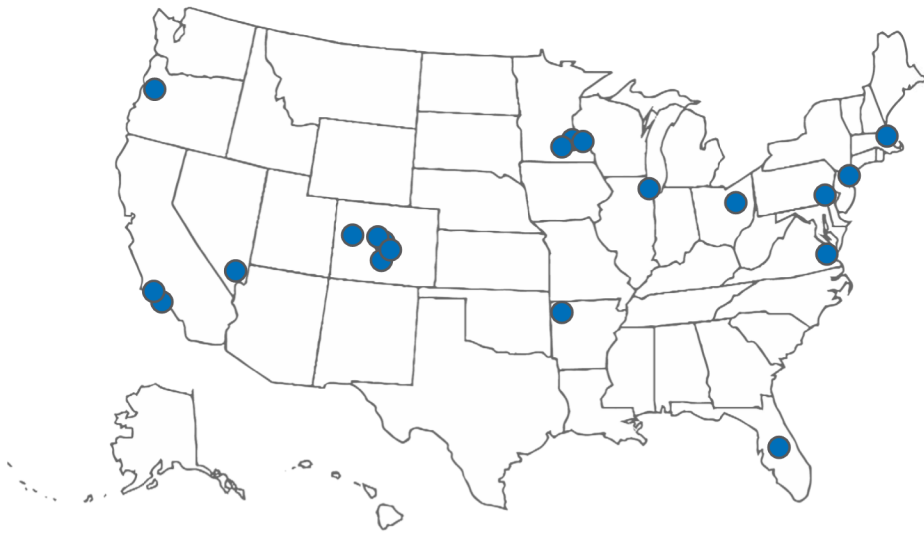
General Services Administration (GSA)

National Registry of Peer Professionals, 2021-present
Sustainability and Climate Opportunity Review and Engagement, 2021



2.1 Significant Work - Industry Leadership and Knowledge Sharing

Babbington creates and harvests knowledge frequently beyond what is to be found in books. Sharing it across the country and across disciplines, Babbington's concentration on continuing education **ripples across the Profession**, reaching people at all stages in their careers and including students, engineers and non-architectural professionals. (One CEU = ten contact hours of continuing education.)



TOTAL PRESENTATIONS

169

Conference and Organization Presentations - presenter

43

Firm Presentations - presenter

14

Conference and Organizational Presentations - organizer

38

Educational Presentations and Lectures - presenter

74

TOTAL ATTENDEES

6,878

4,112

213

2,041

512

TOTAL CEUs

134

79

9

46

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WAGDY ANIS SYMPOSIUM ON BUILDING SCIENCE



2.1 Significant Work - Industry Leadership and Knowledge Sharing

Conferences & Presentations by Babbington

2022, four presentations including:

Renewing Altmeyer: From Mid-Century to Post-Carbon, Facades Plus, Denver, CO

New Life+Light for Old Buildings : Two Paths to Increase Curtain Wall Performance & Durability, Boston Society of Architects/AIA, Boston, MA

Advanced Envelope Detailing, Facades Plus, New York City, NY

2021, eight presentations including:

ASTM/NIBS BECxP Training Module 08 - Building Science: Field Testing, GSA Building Enclosure Commissioning Training, Philadelphia, PA

Enclosure Workshop: PROCESS - Delivering Innovation: Design Assist, GSA Enclosure Workshop, Philadelphia, PA

Thermal Continuity of the Building Skin: Detail-Level Insight into Balancing Thermal Separation and Structural Continuity, Building Enclosure Council-Portland, Portland, OR

Enclosure Detailing: Balancing Performance and Aesthetics, AIA Minnesota Conference on Architecture, Minneapolis, MN

Tolerances, Technology, and Trade Gap, AIA Minnesota Conference on Architecture, Minneapolis, MN

2020, four presentations including:

Keynote-Commercial Glazing - "Clear Insight:Trends | Trajectories in Commercial Fenestration", FGIA - National Conference

Separating the Inseparable: Detail-Level Insight into Designing for Thermal Bridging, Building Enclosure Council-Colorado, CO

2019, ten presentations including:

ASTM/NIBS BECxP Training Module - Building Science: Heat, Air, and Vapor Control Layers, Building Innovation 2019 Conference- NIBS, Washington, DC

ASTM/NIBS BECxP Training Module - Building Science: Laboratory Testing, CxEnergy - Building Commissioning Conference & Expo, Orlando, FL

TMBR: Pushing the Boundaries of Mass Timber Construction in Minnesota and Beyond, AIA Minnesota Conference on Architecture, MN

Advanced Enclosure Detailing Workshop, A'19 Conference on Architecture National AIA, Las Vegas, NV

2018, five presentations including:

ASTM/NIBS BECxP Training Module - Building Science: Heat, Air, Vapor, and Thermal Control Layers, BEST5 Conference - NIBS/BETEC, Philadelphia, PA

Advanced Enclosure Detailing Workshop, CONSTRUCT - National CSI Conference, Long Beach, CA

Designing the Edge – Corners, Canopies, and Cornices, AIA Minnesota Conference on Architecture, MN

Advanced Enclosure Detailing Workshop, A'18 Conference on Architecture - National AIA, New York City, New York

201, five presentations including:

Emerging Fabrication Technologies, GSA Building Enclosure Workshop, Chicago, IL

Emerging Fabrication Technologies, GSA Building Enclosure Workshop, Chicago, IL

Regional Strategies, GSA Building Enclosure Workshop, Chicago, IL

Renderings Don't Count: Pushing the Limits of Architecture through Modern Materials and Systems, AIA Minnesota Conference on Architecture, Minnesota, MN

2016, three presentations including:

Transitions: Maintaining Continuity of Performance+Aesthetics Even Amidst Demanding Climates, Forms, and Construction Schedules, Building Enclosure Council- Minnesota, MN

Architecture and the Ecology of Objects, AIA Colorado, CO

2015, one presentation:

God is in the Details: Detail Level Insight into High Performance Glazed Facades, AIA Colorado South, Colorado Springs, CO

Conferences & Organizational Presentations - BEC Programs Director + Facades Plus Co-Chair

2019, six presentations including:

"State of the Industry: Perspectives on Panelized, Unitized, Ladder, and Stick Systems, Facades Plus - Minnesota, Minneapolis, MN

"Northern Enclosure: Climate-Driven Strategies for High-Performing Facades, Facades Plus - Minnesota, Minneapolis, MN

"Facade Strategies for Curatorial Institutions, Facades Plus - Colorado, Denver, CO



Red denotes AIA event

2.1 Significant Work - Industry Leadership and Knowledge Sharing

Conferences & Presentations - Babbington as Programs Director + Co-Chair

2016, ten presentations including:

Contractor Round-Table, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

Rainscreen installations across 3 climate zones,
AIA Colorado Subcommittee: Building Enclosure
Council-Colorado

Legal Ramifications of Building Enclosure
Failures, AIA Colorado Subcommittee: Building
Enclosure Council-Colorado

An Introduction to Dynamic Glazing, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

“BEC Fall Seminar : Top Building Enclosure
Mistakes and Solutions for Energy Efficiency,
Water and Moisture Management”, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

Detail Workshop, AIA Colorado Subcommittee:
Building Enclosure Council-Colorado

Thermochromic Glazing: Ravenbrick Window
Fabrication Tour, AIA Colorado Subcommittee:
Building Enclosure Council-Colorado

2015, 11 presentations including:

Case Studies in Re-Cladding Existing Buildings,
AIA Colorado Subcommittee: Building Enclosure
Council-Colorado

The Science Pyramid - Cladding the Denver
Botanic Gardens' New icon, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

Appropriate Lighting Levels - Building Envelope
integration, AIA Colorado Subcommittee: Building
Enclosure Council-Colorado

Acoustic Considerations for the Exterior Envelope,
AIA Colorado Subcommittee: Building Enclosure
Council-Colorado

BEC Fall Seminar Graham Finch, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

Detailing Workshop, AIA Colorado Subcommittee:
Building Enclosure Council-Colorado

2014, 11 presentations including:

The Mockup Process & Testing - A Case Study, AIA
Colorado Subcommittee: Building Enclosure
Council-Colorado

Design Consideration for Air Barriers, AIA
Colorado
Subcommittee: Building Enclosure Council-
Colorado

NFRC Certification Program for Residential and
Commercial Fenestration Energy-Related
Performance Ratings, AIA Colorado Subcommittee:
Building Enclosure Council-Colorado

Envelopes: The Inside Story, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

BEC Fall Seminar : Details for the Building
Enclosure : Richard Keleher, AIA Colorado
Subcommittee: Building Enclosure Council-
Colorado

Detailing Workshop, AIA Colorado Subcommittee:
Building Enclosure Council-Colorado

UHPC - Changing Today's Facade Design, AIA
Colorado Subcommittee: Building Enclosure
Council-Colorado

Visiting Lecturer and Reviewer

*Presenting to undergraduate and graduate level
students in architecture and engineering and in both
classroom and studio settings. ACE presentation was
a high school level presentation.*

University of Colorado Boulder
School of Environmental Design
College of Engineering and Applied Science
Boulder, Colorado

University of Colorado Denver
College of Architecture and Planning
Denver, Colorado

University of Minnesota
College of Design
Minneapolis, Minnesota

Kent State University
College of Architecture
Kent, Ohio

Dunwoody College of Technology
School of Design
Minneapolis, Minnesota

Smoky Hill High School
ACE Mentorship Program
Aurora, Colorado



Red denotes AIA event

2.2 Significant Awards, Honors & Recognition - Collaborative Enclosure Performance Design

In addition to awards in 2.1 Significant Work and Exhibits

Cineteca Nacional

- 2014 **AIA Colorado Merit Award**
- 2014 **AIA Denver Honor Award**
- 2014 Architizer A+ Popular Award, Government & Municipal Buildings
- 2014 Rethinking the Future Award, Honorable Mention
- 2012 Invitation to the Venice Biennale for Architecture
- 2014 Architizer A+ Popoular Award, Government & Municipal Buildings

Marquez Hall

- 2013 **AIA SCUP**
- 2013 **AIA Colorado Citation**

Lory Student Center

- 2016 **AIA Colorado North Honorable Mention**

Marygrove Early Education Center

- 2022 **AIA Detroit Honor Awards, Building Category**

Beaver Country Day

- 2018 **AIA New England, Finalist**

Duke Ellington School of the Arts Modernization

- 2020 Third Award, Institutional, Rethinking the Future Awards
- 2019 Chairman's Award, Historic Preservation Review Board
- 2018 Winner Commerical (Built), International Architecture Awards
- 2018 Design Excellence Award Winner, CFSEI
- 2018 Project of the Year, Best K-12, ENR MidAtlantic

16 Chestnut

- 2019 Best Office/Retail/Mixed-Use, ENR Mountain States

Charleston International Airport

- 2018 American Architecture Award, The Chicago Athenaeum

Luohu Public Realm Revitalization

- 2021 MIPIM Asia Bronze Award for Best Chinese Futura Project
- 2021 The PLAN AWARDS, Winner, Public Space Category



Red text for AIA Award

Lumen at Beacon Park

- 2021 Architecture Eating Space Award, LIV Hospitality Design Awards
- 2019 Merit Award, Build Magazine - Architecture Awards 2019 Congress for the New Urbanism - Charter Awards
- 2019 Build Magazine, Best Commerical Project - Michigan
- 2018 Commerce Detroit Design Award
- 2018 New England Design Awards, Honor Award
- 2018 PRISM Award, Best Commerical Project, Gold
- 2018 Dezeen Awards, Hospitality Building, Longlist
- 2018 SBID Awards - Restaurant Design
- 2018 Metal Architecture Design Awards, Judges Award
- 2019 Architect's Newspaper Editor's Choice - Commerical | Hospitality
- 2019 Woodworks, Beauty of Wood Award

Primark U.S. Flagship Store

- 2016 ARE Design Awards, Silver Award for Specialty Store over 25,000 SF
- 2016 Retail Design Insitute, First Place Soft-Line Specialty Store
- 2016 Retail Design Insitute, Innovation Award-Facade

ASU Polytechnic Campus Sun Devil Fitness Complex and Wellness Center

- 2015 NIRSA Outstanding Sports Facility

Adams Street Library

- 2022 Architizer A+ Awards Special Mention - Libraries
- 2022 Mies Crown Hall Americas Prize - Finalist
- 2021 Honorable Mention-Library, AN Best of Design Awards
- 2019 SASA National Award for Unbuilt Architecture: Adams Street Branch
- 2019 SARANY Design Award of Honor
- 2019 SARANY Unbuilt Award

Thunder Valley CDC Net Zero Housing

- 2017 AAP American Architectural Prize - Residential Architecture Honorable Mention
- 2016 Cooper Hewitt, Smithsonian Design Museum: By the People: Designing a Better America
- 2017 Bush Prize for Community Innovation

2.3 Publications & Media Coverage - Object 2: Technical Advancement

In addition to those listed in 2.1 and Exhibits

About Selected Projects

Beirut Museum of Art

"Why Beirut Museum of Art project is a beacon of hope in crisis-plagued Lebanon"
arabnews.com, May 20, 2022

"Everything You Need to Know about the Beirut Museum of Art Opening in 2026"
Vogue, March 23, 2022

"Years in the Making, the Beirut Museum of Art Breaks Ground"
artnews.com, February 28, 2022

Boulder Commons Net Zero

"An Architect's Guide to Climate Change Solutions"
gb&d (Green Building and Design Magazine) August 12, 2020

"Boulder Commons Sets New Standard for Net-Zero Leases"
Green Building Advisor May 8, 2017

Duke Ellington School for the Arts Modernization

"The Value of Open BIM in the Duke Ellington School of the Arts Renovation",
Architectural Record, April 1, 2022

"Duke Ellington School of the Arts"
Architect Magazine, January 23, 2018

"Dave Chappelle: Nobody Says, 'I Wish I Had a Camera'"
Comedians in Cars Getting Coffee, created by Jerry Seinfeld
Season 10, Netflix, 2018

Babbington as author or subject

2021 "Member Spotlight", *NIBS Annual Report to the President of the United States*, October 21, 2020, feature

2020 "William Babbington Shares Fenestration, Glazing Commercial Design Trends at FGIA Virtual Fall Conference", *Fenestration & Glazing Industry Alliance (online)*, October 21, 2020-feature

2019 "Facades+ will spotlight Minneapolis's experts and innovators", *Architects Newspaper (online)*, June 14, 2019, interview

2015 "A High-Performance Rammed Earth Wall System for Cold Climates",
Journal for Building Enclosure Design, February 1, 2015, co-author



2020 Annual Report to the President of the United States, Feature



Journal for Building Enclosure Design, 2015, Co-Author

3.0



Populus sculptural self-shaded facade - Denver, CO

3.0 Exhibits - Object 2: Technological Advancement



Liverpool Insurgentes
Mexico City, Mexico



Arthur J. Altmeyer Federal Building
Woodlawn, Maryland



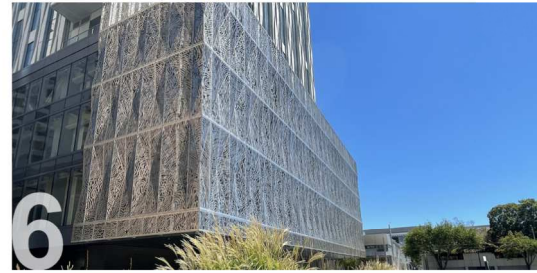
Amherst College Science Building
Amherst, Massachusetts



MIT Site 4
Cambridge, Massachusetts



Denver Botanic Gardens Science Pyramid
Denver, Colorado



The Mexican Museum
San Francisco, California



Populus
Denver, Colorado



Whole Health Institute
Bentonville, Arkansas



The Ragon Institute of MGH, MIT, and Harvard
Cambridge, Massachusetts



Pace Galleries
New York City, New York

3.0 Exhibits - #1 Liverpool Insurgentes

“Will’s clear understanding of how to take advantage of the skilled location craftsmanship for the fabrication of the façade resulted in the success of the project.” - Gerardo Salinas AIA – former Partner, Rojkind Arquitectos

Role of Nominee

Architectural Façade Design Lead
Structural Façade Design

Architect of Record

Rojkind Arquitectos

Location

Mexico City, Mexico

Size

8,880 square feet

Completion

2014

Selected Awards

Progressive Architecture P/A Award
AIA Colorado Young Architects Awards Gala
“Divine Detail” Best Architectural Detail
AIA Denver Honorable Mention
ArchDaily Top 100
World Architecture News Façade Award Finalist

Selected Publications

‘Retail Architecture S-XXL: Development, Design, Projects’
book by avedition 2015

“Liverpool Department Store-Insurgentes, Design by Rojkind Arquitectos”
Architect Magazine 06-30-2014

“Liverpool Insurgentes Reshapes the Face of Retail in Mexico City”
thecoolist.com 10-27-2014

Synopsis

The client’s ever-more-complex vision for this façade to cover the full exterior of an existing department store in the heart of Mexico City challenged Babbington’s ingenuity. Instead of simply giving a new face to the building with standard recladding, Babbington’s innovations gave the building new life and soul.

Results

Architectural Façade Design Lead and Structural Façade Lead, Babbington developed a full four-story three-layered system: a hexagonal extrusion structure hanging 2.4 meters off the edge of the existing building on vertical members spanning floor-to-floor, thus creating a dynamic occupiable façade of living windows displays. Babbington’s system enabled the slender façade members to effectively support the weight of the façade and its interstitial floors.

Babbington was instrumental in creating one of the most visually and structurally complex facades in North America. In the face of Mexico City’s seismic challenge, Babbington’s award-winning solution included a detail that accommodated movement in every direction up to 7 inches without compromising aesthetics.

Declaration of Responsibility

I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for façade structure design.

Christopher O’Hara, PE, SECB

Founding Principal, Studio NYL
Role: Façade Structure Principal-in-Charge



Before

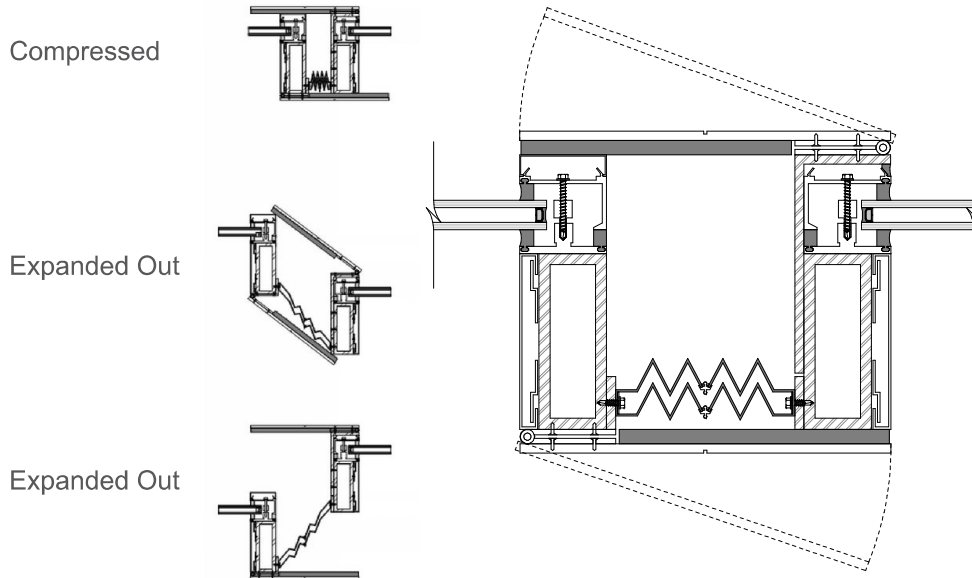


After

3.0 Exhibits - #1 Liverpool Insurgentes



Stairs within occupiable facade.



Will's expansion joint plan detail that allows large seismic movements in every direction while maintaining air and moisture protection as well as the imperative design aesthetic.



3.0 Exhibits - #2 Arthur J. Altmeyer Federal Building

“Will was a key integrator and liaison for the successful melding of strong dignified design with superior performance, quality and delivery in this GSA benchmark modernization and renovation.” - Jason Danielson AIA – GSA (General Services Administration) National Advisor, Building Enclosures

Role of Nominee

Project Manager
Architectural Façade Design Lead

Architect of Record

Snow Kreilich Architects
HGA Architects

Location

Woodlawn, Maryland

Size

205,540 square feet

Completion

2021

Selected Awards

AIA Minnesota Honor Award

Facade Tectonics Institute Vitruvian Awards Winner -
Outstanding Façade Renovation
ASHRAE Technology Award - Region VI
ASCE Architectural Engineering Institute
Best Overall Project over \$100 mil
Award of Excellence-Renovation
Award of Excellence-Mechanical
Award of Excellence-Electrical
Architizer A+ Awards Special Mention - Government
and Civic Buildings

Selected Publications

“Arthur J. Altmeyer Federal Building in Baltimore Celebrates the History of Social Security While Creating a Healthy High-Performance Workplace”
theplan.it, 2022

“Arthur J. Altmeyer Federal Building Micro Texture Finish On Aluminum Provides Uniform Exterior Look For Federal Building Makeover”
designandbuildwithmetal.com, 2022

Synopsis

Babbington’s solution as Project Manager and Architectural Façade Design Lead was a vital part in keeping the existing 205,540 square-foot structure, saving more than 56% of its construction waste and an estimated \$13 million. Collaborating intensely with architect and mechanical engineer, Babbington optimized the new façade’s performance by individually “tuning” each elevation’s window-to-wall ratio, at the same time guiding details such as thin edges of the re-cladding with the use of advanced materials, high-performance insulation blanket, and fiber reinforced polymer thermal breaks, meeting GSA’s durability requirements.

Results

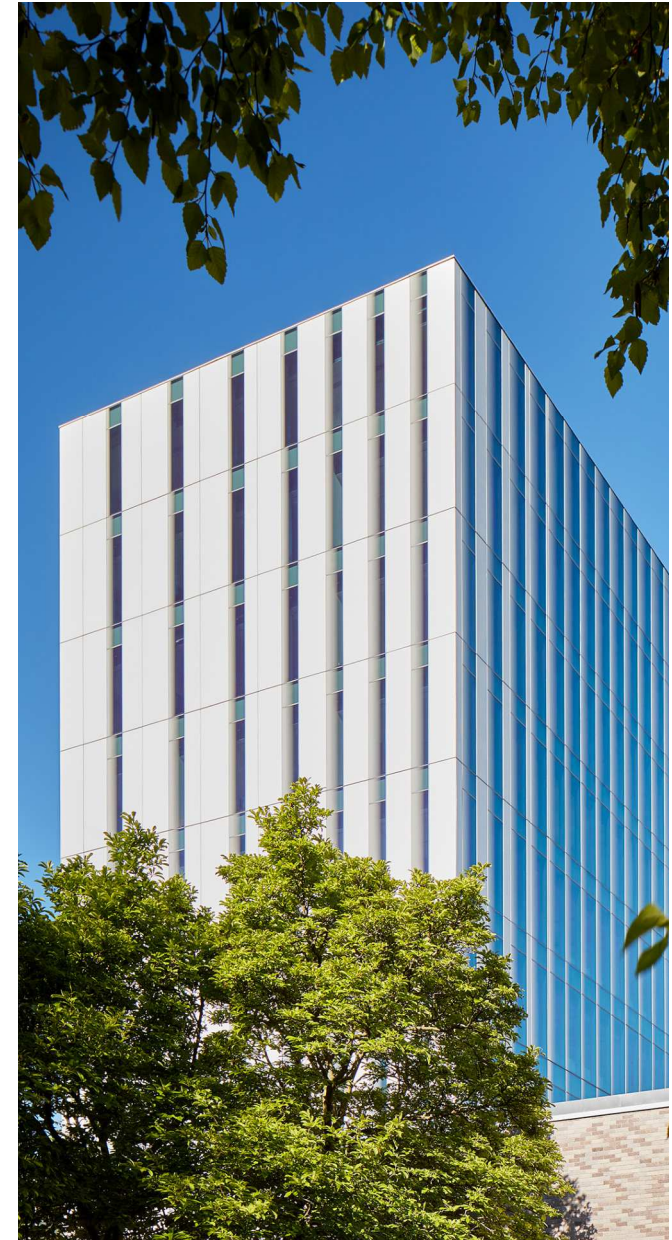
Guiding the development of a shop-fabricated curtain wall system with laboratory mock-up and field-testing protocol such as whole- building air leakage tests, Babbington’s façade was the most important part of the new mechanical system. Each side of Babbington’s building envelope is unique in response to energy needs. In addition to cost and durability benefits, Babbington’s solutions saved 16.3% in energy costs. The GSA cited this project’s excellence and subsequently invited Babbington to present and provide peer reviews for other GSA projects.

Declaration of Responsibility

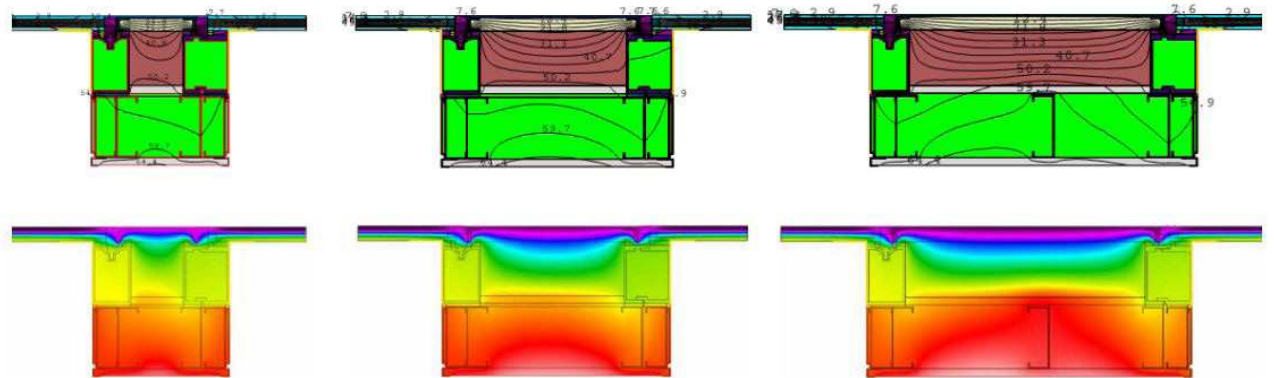
I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for façade design and project enclosure scope under direction of the nominee.

Matt Kreilich, FAIA

Principal, Snow Kreilich Architects
Role: Architect | Principal-in-Charge



3.0 Exhibits - #2 Arthur J. Altmeyer Federal Building



Thermal studies identifying energy and condensation performance for each panel size.

3.0 Exhibits - #3 Amherst College Science Building

“Will’s strength lies in his deep understanding of how a custom façade system must perform technically while fully meeting the architects’ aesthetic goals and vision. His role on the Amherst project was critical in the testing phase, working together with our façade contractor to resolve and refine the design of a custom-built glazing system with lofty aspirations, both architecturally and in terms of performance.”

- Mark Oldham AIA, Principal, Payette

Role of Nominee

Project Manager

Architectural Façade Design Lead

Architect of Record

Payette

Location

Amherst, Massachusetts

Size

251,000 square feet

Completion

2018

Selected Awards

AIA COTE Top Ten Award

AIA New England Honor Award

AIA Interiors

AIA Committee on Architecture for Education

Excellence in Architecture Merit

Boston Society of Architects

Honor Award for Design Excellence

Higher Education Design

Higher Education Facilities Design

Sustainable Design Awards Citation

American Architecture Award

USGBC Building Showcase Market Leader

Innovation

People’s Choice

IES Award of Merit

Selected Publications

“Amherst College New Science Center”

Architect Magazine 04-03-2019

Synopsis

A key aspect of this design was a multi-story 65-foot curtain wall span without intermediate supports. In Payette’s design this “bar of light” was the key connection between three pavilions of lab space clad with perforated weathering steel fins.

Results

To achieve maximum transparency, Architectural Façade Design Lead Babbington made the curtain wall mullions as slender as possible by hanging them from the roof. The mullions were also pulled inward off the triple-glazed glass, accenting the feeling of lightness in the elegant detailing

In order to maintain a weathertight seal across movement joints, Babbington’s solution involved the development of innovative transitions, such as a redundant layout of silicone “bellows.” Babbington also designed and analyzed thermal breaks for façade connections at the curtain wall itself and at the meeting of wall and entrance canopy.

Utilizing laboratory mockup testing, field testing and meticulous oversight of the wall systems, Babbington contributed to energy use 76% below the 2030 Baseline for a lab building, previously known for particularly high energy use. The building received the coveted AIA National COTE Top Ten designation.

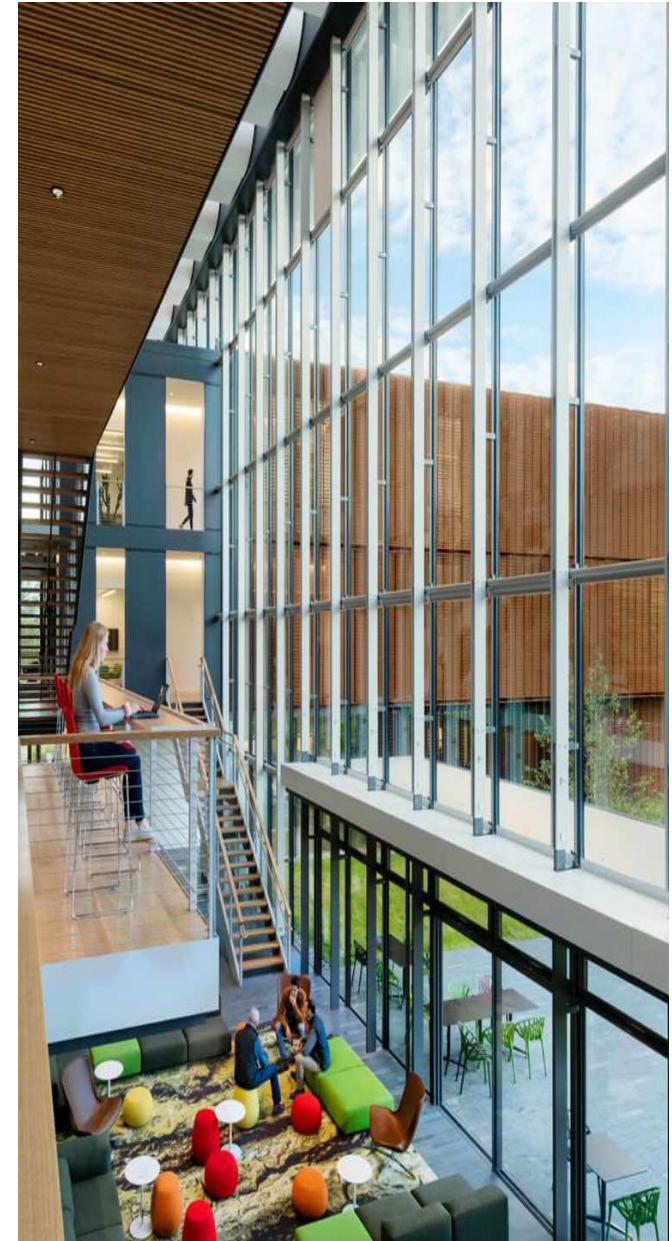
Declaration of Responsibility

I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for facade design consultation from concept through construction administration.

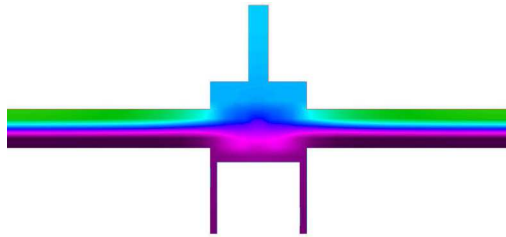
Jeff Abramson, AIA

Associate Principal, Payette

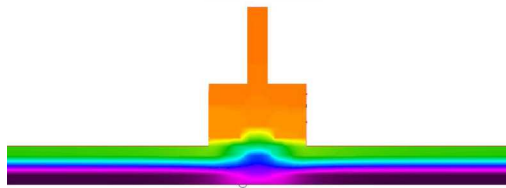
Role: Project Architect



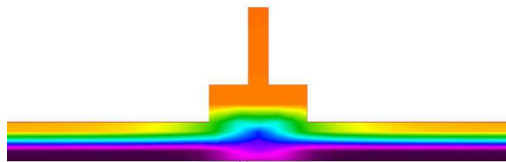
3.0 Exhibits - #3 Amherst College Science Building



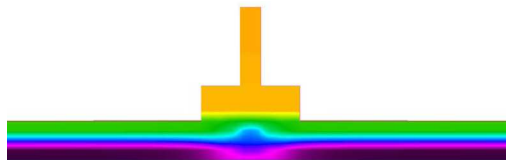
Option 1



Option 2



Option 3



Option 4

As the curtain wall was critical to both the transparency and lightness of the community spaces, it was imperative that the curtain wall performance was elevated to the highest levels. Many computational thermal analyses were run on every conceivable option very early in the project.



3.0 Exhibits - #4 MIT Site 4

“From schematic design through construction drawings, Babbington drilled down into details to understand constructability, explored conceptual and material logistics, as well as bridging between architecture, envelope and construction issues seamlessly. His depth of systems and design knowledge has made him a significant and valuable collaborator on numerous projects with NADAAA.”

- Harry Lowd, NADAAA Associate

Role of Nominee

Project Manager
Architectural Façade Design Lead

Architect

NADAAA | Perkins&Will (AOR)

Location

Cambridge, Massachusetts

Size

426,150 square feet

Completion

2020

Selected Awards

AIA New York Honor Award

**AIA New England Merit Award Excellence in
Architecture Merit**

**Boston Society of Architects Honor Award for
Design Excellence**

Cambridge Historical Commission Preservation Award
Architizer A+ Awards Best Large Mixed-Use Project
Global Future Design Awards Winner Mixed-Use
Architecture Built

Mies Crown Hall Americas Finalist

Progressive Architecture P/A Award

AN Best of Design Award Honorable Mention Mixed
Use

Selected Publications

“MIT SITE 4’ Multifunctional Complex: The Elegant
Balance of Form and Technology”
The Plan Issue 136-2022

“MIT Site 4”

Architectural Record

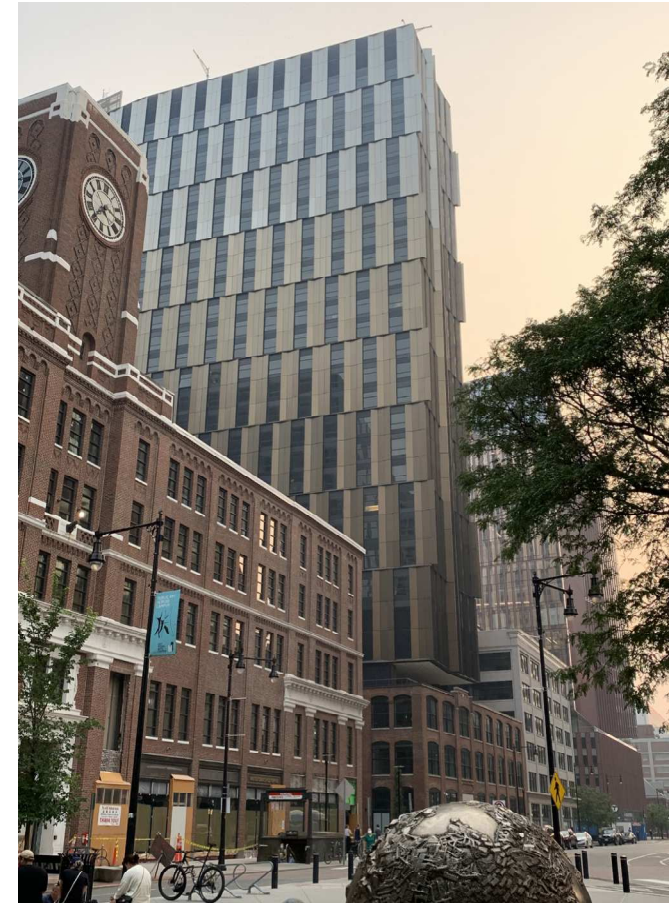
Synopsis

Babbington’s contribution on the redevelopment of four connected buildings in MIT’s busy Kendall Square was multifaceted. As Architectural Façade Design Lead, Babbington engineered the redesign for the existing residential tower centering on his development of a panelized wall system, with insulated bronze anodized aluminum rainscreens projecting outward to self-shade the alternating windows. The rainscreens are placed in decreasing tonal variant as they rise up the tower. Bronze anodized privacy fins also cap the glazed wall of an adjacent daycare playground.

Results

Babbington’s work also included the deceptively complex task of retaining the brick façade of an historic 3-story building via interior insulation, striking the right balance of insulation to increase energy performance without resulting in condensation that would deteriorate the brick. Finally, Babbington organized code updates using a laboratory mockup to test projected air, water and structure of the site’s existing concrete warehouse to accommodate a new lab office program.

In addition to the analysis and design for the existing buildings’ insulation and window upgrades, Babbington’s solution of the mega-panel wall system increased both quality and construction speed. Built offsite with special thermally-broken connections, the panels contain both opaque and glazing and were “snapped” together after being craned into place from truck trailers. Babbington’s enclosure work on this redevelopment of four connected buildings reached LEED Gold level and has been recognized by a number of construction and preservation awards.



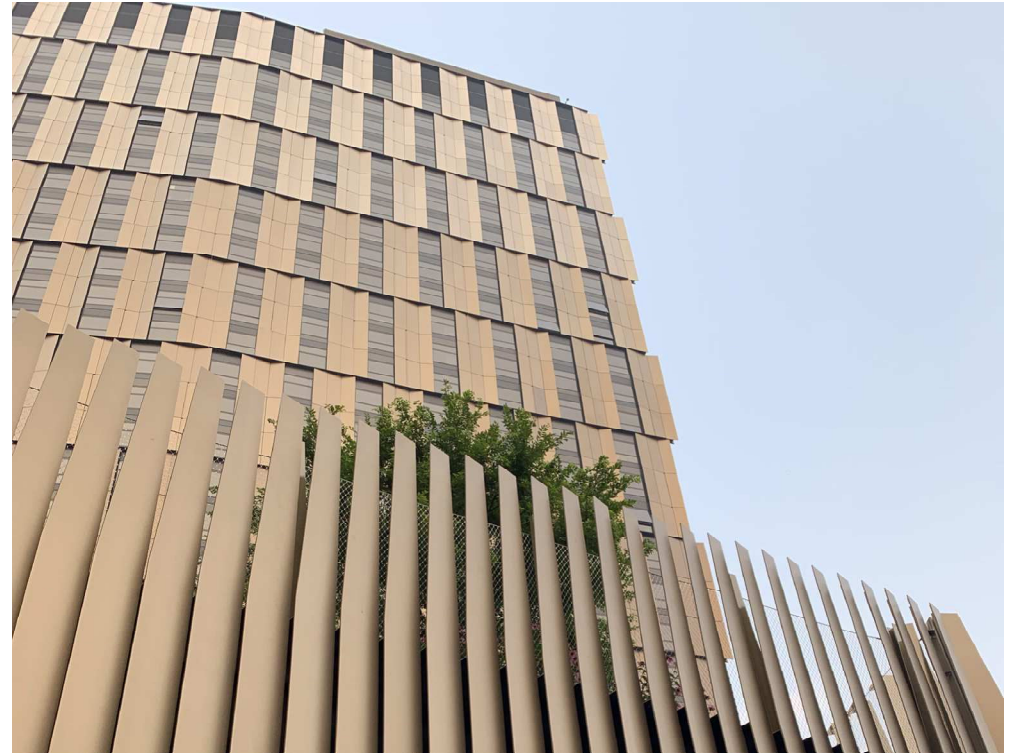
Declaration of Responsibility

I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for façade design consultation from concept through construction administration.

Andrew Grote, AIA

Director of Operations | Principal, Perkins&Will
Role: Project Architect Architect-of-Record

3.0 Exhibits - #4 MIT Site 4



Laboratory air and water testing of full-size facade panels.

3.0 Exhibits - #5 Denver Botanic Gardens Science Pyramid

“We simply could not have completed the Science Pyramid without Will’s thoughtfulness and innovation. Truly first-time custom detailing, his sketches were artful, keeping the human touch throughout the construction documents. The result was a clear understanding for architects and builders.” - Barton Harris AIA, former Principal of BurkettDesign (now EUA)

Role of Nominee

Project Manager
Architectural Facade Design Lead

Architect of Record

EUA (formerly Burkett Design)

Location

Denver, Colorado

Size

5,258 square feet

Completion

2014

Selected Awards

AIA Colorado Honorable Mention

ENR Mountain States

Best Overall Project

Best Cultural Project

AGC ACE Award

Best Building Under \$10 Million

People’s Choice Award

NRCA Gold Circle Awards

Innovative Solutions

Selected Publications

“High-performance ‘science pyramid’ at Denver Botanic Gardens”

archpaper.com 09-30-2016

“Denver Botanic Gardens Science Pyramid”

Architect Magazine 03-18-2016

“Architektonische Nachahmung der Natur im Botanischen Garten Denver”

Detail Magazine 2015 Issue 5

Synopsis

Showcasing the Botanic Garden’s worldwide research together with building technology, this jewelbox building included cutting-edge systems, such as integrated structural glass, electrochromic skylights with daylight sensors, and photovoltaic cells laminated in glass. The Pyramid’s violent geometry, clad with hexagonal fiber-reinforced cement and BIPV glass panels is enriched by Babbington’s enclosure solutions, including North America’s first rainscreen roof. Sited in the middle of an operational and well-visited botanic garden, the project had an aggressive 9-month completion schedule.

Results

Coordinating the integrated structural and enclosure design for the architectural team, Babbington had the dual role of Project Manager and Architectural Façade Design Lead. In spite of an already geometrically-complicated, fast-tracked project, every detail was thermally and structurally analyzed and thoughtfully crafted to ensure the building performed without interrupting the aesthetic design intent. Subsequently retained by the cladding subcontractor to produce delegated design calculations and documents, Babbington designed, crafted, and documented every structural connection of the roof rainscreen.

Declaration of Responsibility

I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for facade design, enclosure scope under direction of the nominee, and nominee’s firm executed the project facade design and construction administration.

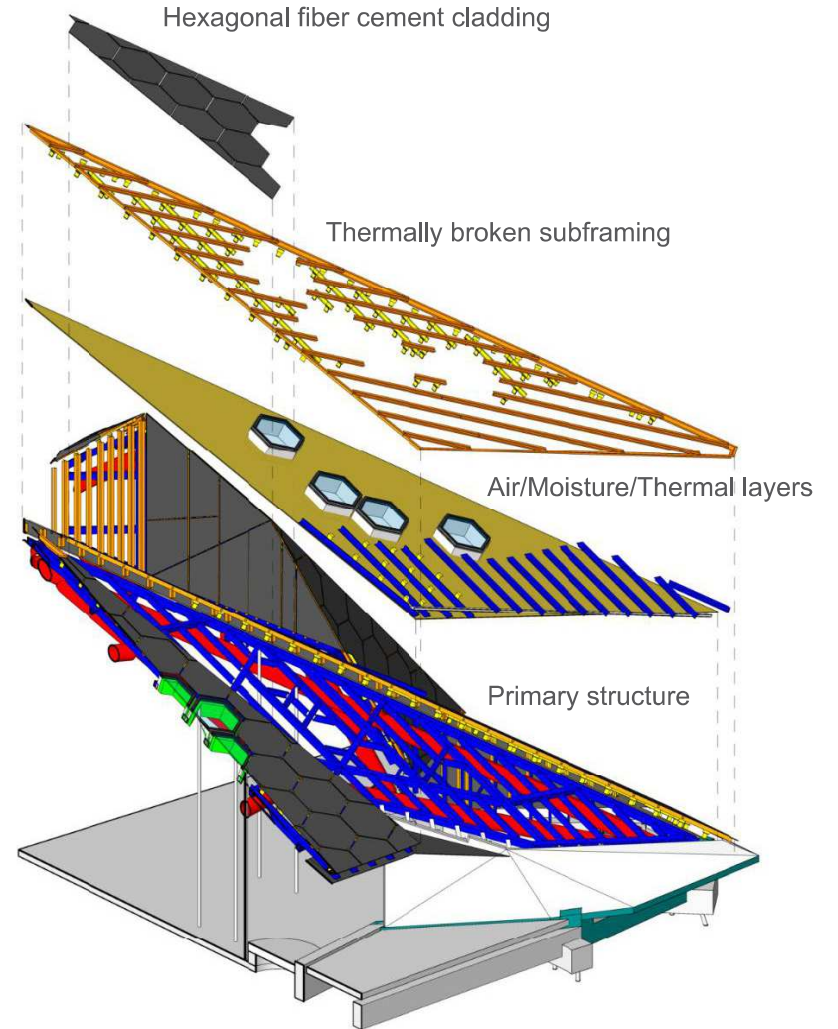
Rieko Ishiwata, AIA

former Project Architect, Burkett Design

Role: Project Manager



3.0 Exhibits - #5 Denver Botanic Gardens Science Pyramid



Exploded layers of assembly

3.0 Exhibits - #6 The Mexican Museum

“Will’s expertise and enthusiasm were vital in bringing together the many design intentions of our team – architect, artist, contractor, client – into holistic real solutions that ultimately resulted in a beautiful, inventive and practical design.” - Melissa Fukumoto – Partner, TEN Arquitectos

Role of Nominee

Project Manager
Architectural Façade Design Lead

Architect

TEN Arquitectos

Location

San Francisco, CA

Size

52,000 square feet

Completion

2021

Selected Awards

ENR California Award of Merit Cultural/Worship

Selected Publications

“TEN Arquitectos’ New Mexican Museum in San Francisco Celebrates Diversity”
archdaily.com Nov 19, 2016

“San Francisco museum to have largest US collection of Mexican and Latino Art”
theguardian.com July 18, 2016

Synopsis

Newly built in Yerba Buena Park next to Liebeskind’s Contemporary Jewish Museum and Snohetta + Rafael Moneo’s SFMoMA, the Mexican Museum’s mission is to voice the complexity and richness of Latino art and culture throughout the Americas, and to engage and facilitate dialogue among the broadest public. Jan Hendrix, Dutch-born Mexican artist created the format of a two-layer stainless steel screen delineating topographical maps of the migration routes of people, flora, fauna and water between California and Mexico.

Results

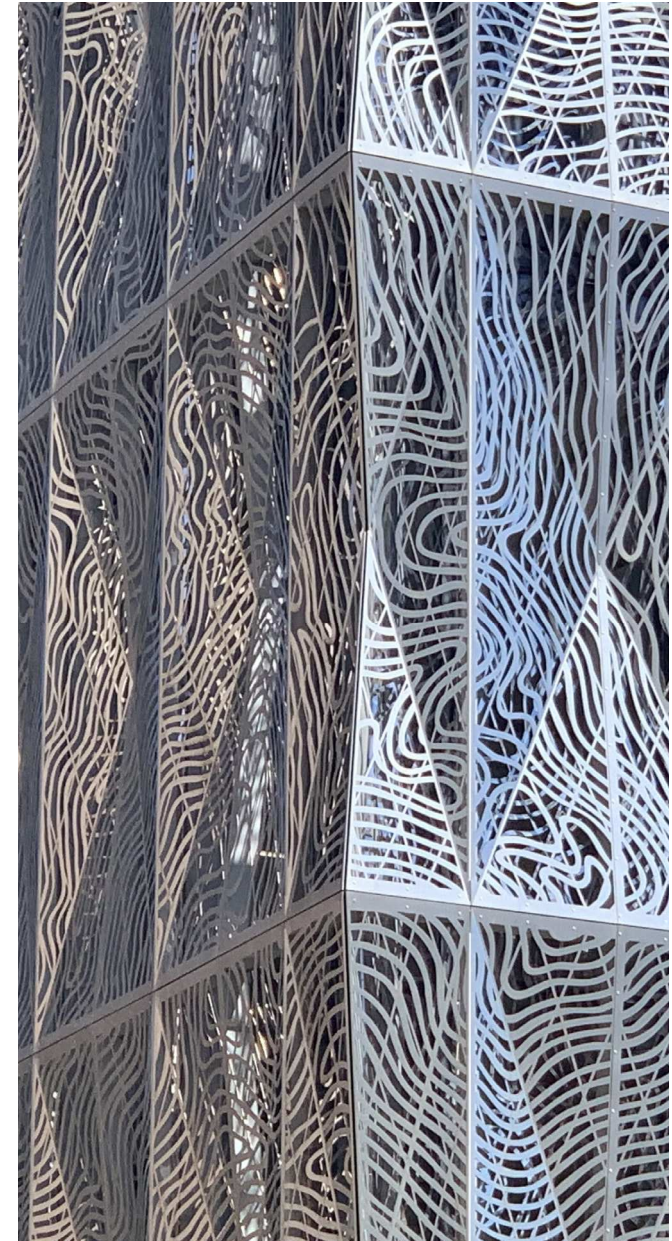
As Architectural Façade Design Lead, Babbington worked with the architects and Zahner to integrate a unique three-dimensional structural glass panel curtain wall with the art screen, with the goal of ultimate transparency. Atypically placing the structural glass mullions on the exterior side of the glazing, Babbington’s solution makes the interior experience of the wall as profound as that of the exterior. Having resolved issues of additional wind and seismic loads, Babbington worked closely with structural glass subcontractors to develop an art screen support structure that would work to the strengths of the fabrication methods. Other considerations were thermal breaks for curtain wall supports, and not the least challenge: window washing.

Declaration of Responsibility

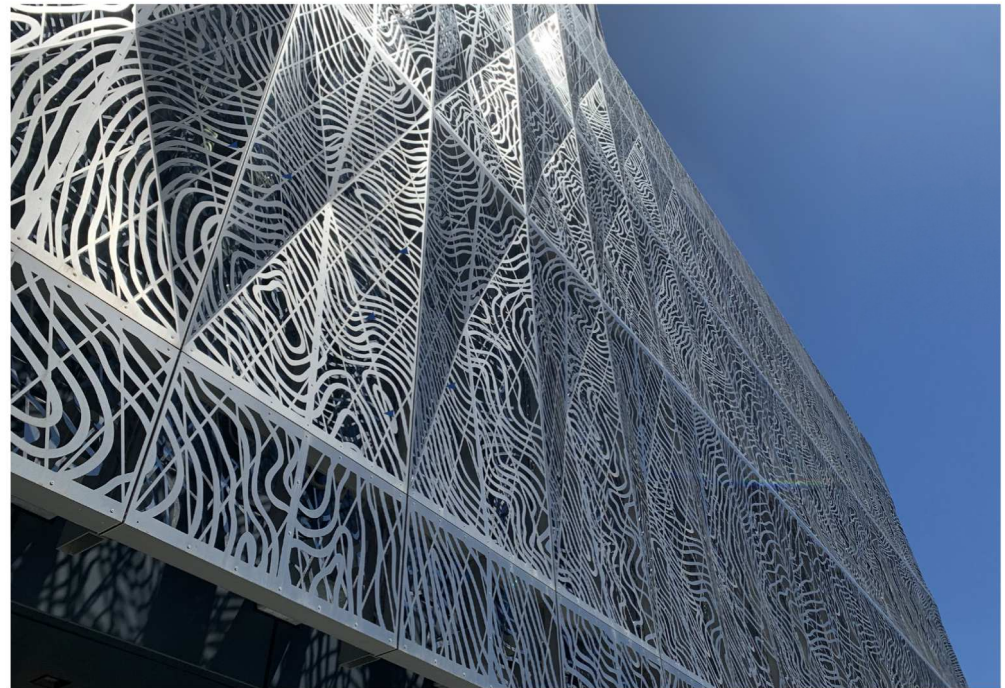
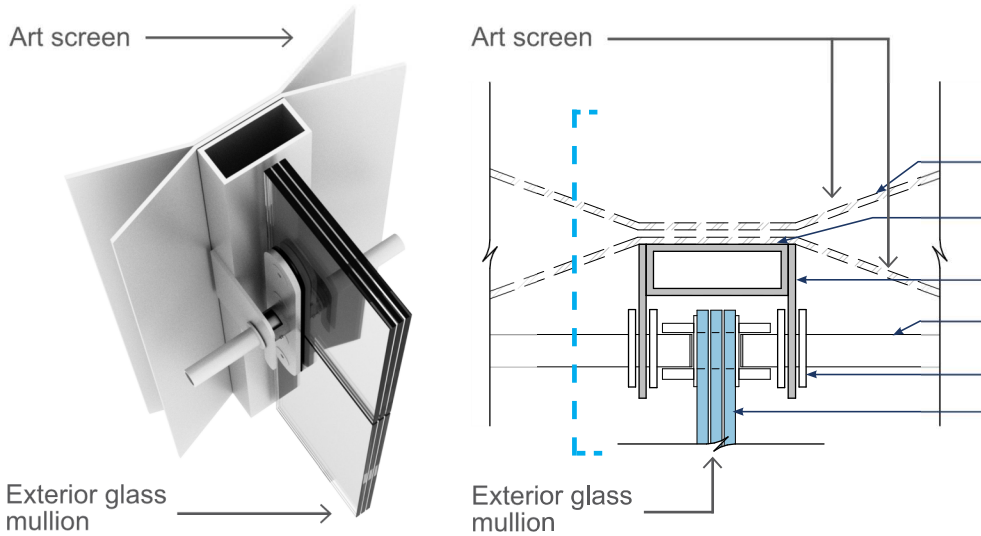
I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for art screen and structural glass facade structure concept design.

Paul Martin

Former Director of Engineering Sales, A. Zahner Co.
Role: Art Screen Manufacturer, Client



3.0 Exhibits - #6 The Mexican Museum



Integration of exterior glass curtain wall fins and art screen wall hangers.

3.0 Exhibits - #7 Populus

“Will provided exceptional support throughout all phases of the project. Given the building’s unique geometries, Will’s expertise was critical in developing façade design solutions that balanced performance, budget and the long-term maintenance goals of the client.”

- John Dolci, Former Senior Project Leader, Studio Gang

Role of Nominee

Architectural Façade Design Lead

Architect of Record

Studio Gang

Location

Denver, Colorado

Size

135,000 square feet

Completion

Anticipated 2024

Awards

LEED Gold (anticipated)

Selected Publications

“Denver’s ‘Populus’ Will Be The First Carbon-Positive Hotel In The U.S.”

Forbes April 22, 2022

“What You Need To Know About Populus, an Eye Catching Hotel Coming Next to Civic Center Park”

5280 July 15, 2021

“Studio Gang Creates Sculptural Façade For Mixed-Use Hotel Evoking Aspen Trees In Colorado”

worldarchitecture.org 02-17-2021

“Populus: White Scalloped Hotel by Studio Gang in Denver”

parametric-architecture.org 02-25-2021

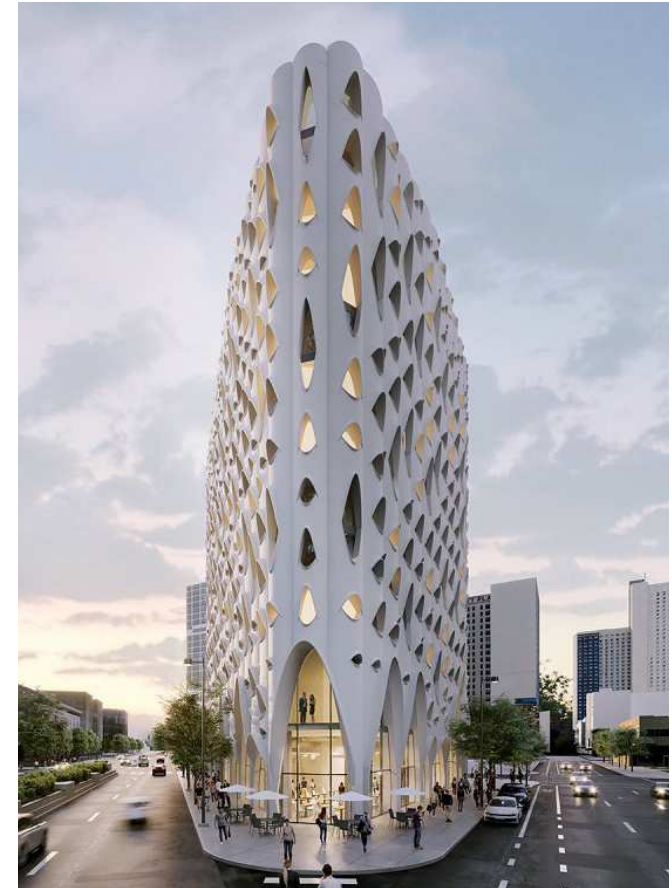
Synopsis

Babbington’s role as Architectural Façade Design Lead of the team supporting Studio Gang began early in the design process. The design intent was to echo the bark of Colorado’s iconic native Aspen trees, with window openings mimicking “dark eyes” ascending the white Aspen trunk. The hotel concept was in the mode of efficiently-sized European rooms. With one “eye” per room, Populus room window openings were kept to a comfortably small size. The rooftop bar, lobby and other common spaces are generously scaled, with some window heights up to 30 feet.

Results

Babbington’s full-scale envelope design mock-up validated the his extensive exploration of form and materials that, in the collaborative process with energy engineer and contractors, pushed the design to the most cost-effective energy-efficient wall assembly. The enclosure team’s exploration included many materials, each documented rigorously by Babbington. resulted in the final façade material choice of glass-fiber reinforced concrete (GFRC), promising to achieve the design’s intended geometries, size, budget and finish. Babbington’s highly-scrutinized thermal analyses took into account both energy performance and condensation, with each window detailed for efficiency in the altitude and varied climate of Denver.

Populus promises to be the first carbon-positive hotel in the United States, as well being on track to be a LEED Gold building.



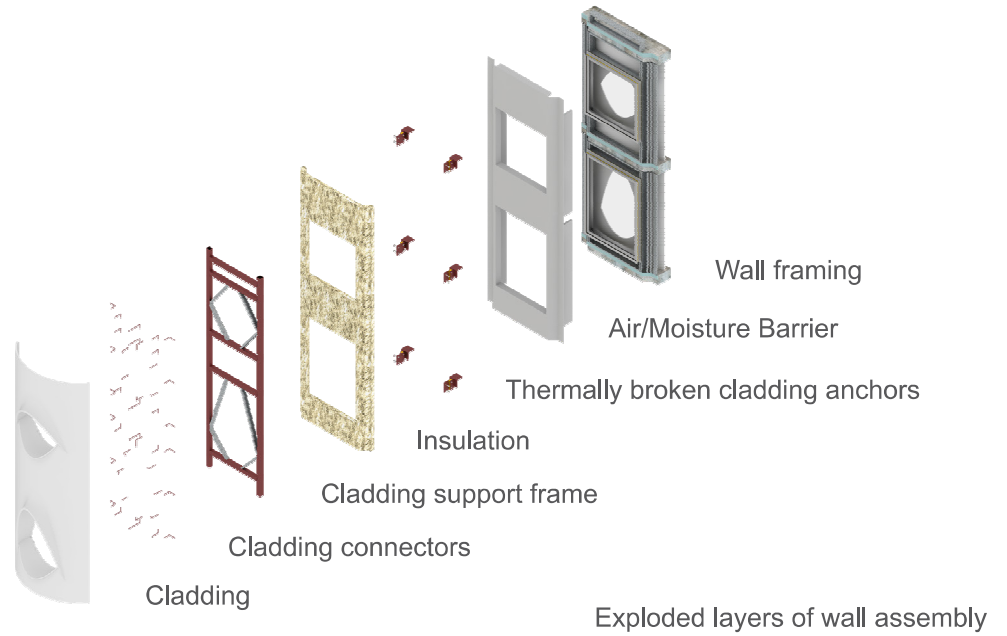
Declaration of Responsibility

I have personal knowledge of the nominee’s responsibility for the exhibit listed above. That responsibility included largely responsible for façade design and architectural enclosure scope under direction of the nominee.

William Emmick, AIA

Design Management Principal, Studio Gang
Role: Principal-in-Charge

3.0 Exhibits - #7 Populus



Visual/Performance Mock-up



Exterior wall before cladding

3.0 Exhibits - #8 Whole Health Institute

“Will’s involvement in the WHI project was pivotal, helping our team work through very difficult building systems. His perspective in both architecture and engineering matched the complexity of our aspirations. His ability to forefront Building Science and Constructability issues long before they were of concern to our team through conceptual design all the way to detailing and construction was crucial”

- Josh Matthews, AIA Senior Associate/Project Manager, Marlon Blackwell Architects

Role of Nominee

Project Manager

Architectural Façade Design Lead

Architect of Record

Marlon Blackwell Architects

Location

Bentonville, Arkansas

Size

77,000 square feet

Completion

Anticipated 2024

Selected Publications

“Crystal Bridges Museum of American Art reveals a Marlon Blackwell Architects-designed home for holistic health nonprofit”

archpaper.com 12-18-2020

“The Chopra Library At The Walton-Funded And Gaudet-Led Whole Health Institute: What’s The Plan?”

today'spractitioner.com 09-01-2020

Synopsis

Located on the Ozark campus of Crystal Bridges Museum of American Art, this 77,000 square-foot building distinguishes itself from its impressive neighbors (Frank Lloyd Wright house, Safdie Museum) and embraces the surrounding network of rotating outdoor sculpture exhibits on a natural network of trails. Serving as both Project Manager and Architectural Façade Design Lead, Babbington provided the architect with enclosure design expertise to move this complex into reality.

Results

Guiding the design team’s efforts to develop the façade design and details, Babbington’s enclosure concepts and knowledge produced the bespoke bronze rainscreen system with floating shade fins and custom glazing that wrap the upper volume of the long curved building. Requiring galvanic separation from its sub-framing, Babbington specified the addition of thermal isolators where sub-framing supports penetrated the insulation. Babbington also solved the constructability challenge of local energy codes that required continuous exterior insulation at the conjunction of the desired vernacular “Giraffe Stone” grounding the lower volume of the complex. Babbington led explorations of wall assemblies with the local stone mason to merge time-honored craftsmanship with modern performance and durability.

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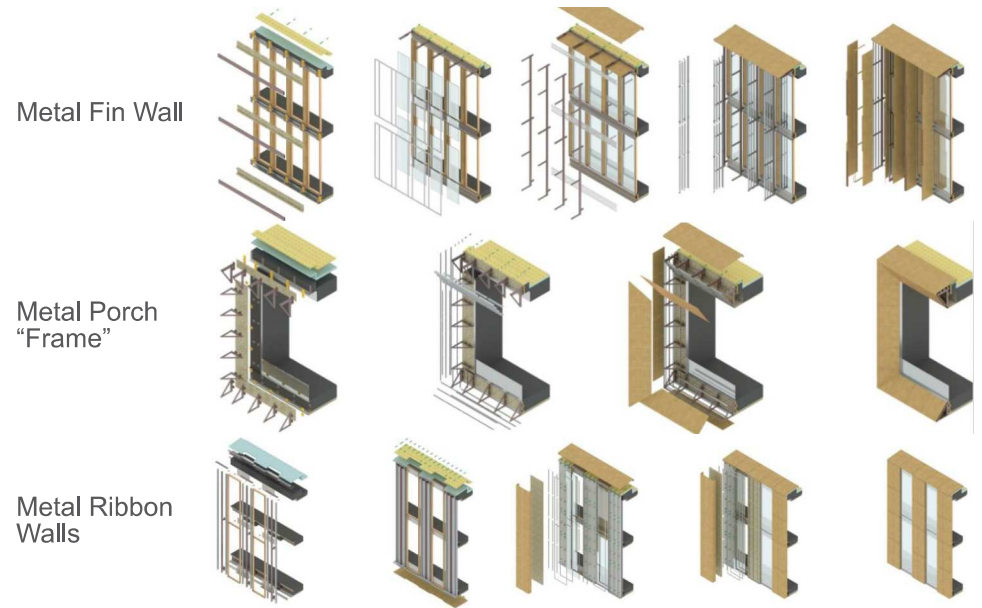
Justin Hershberger, AIA

Studio Director, Marlon Blackwell Architects

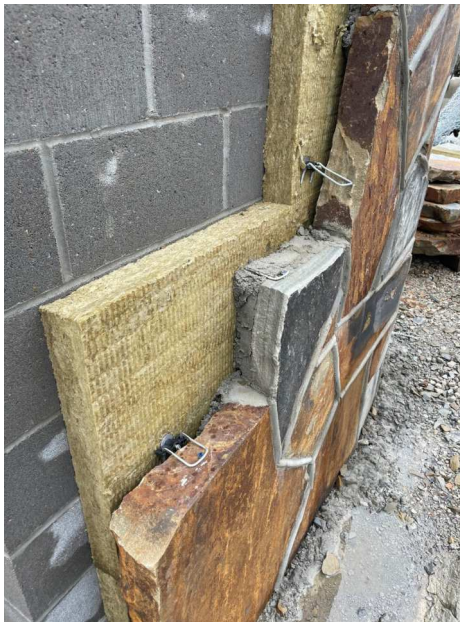
Role: Project Architect



3.0 Exhibits - #8 Whole Health Institute



Exploded constructability studies for 3 types of custom metal panel assemblies.



Mock-up that merges century-old vernacular stone construction with modern day energy performance.



3.0 Exhibits - #9 The Ragon Institute of MGH, MIT, and Harvard

“This is one of my favorite projects, taming complexity with a seemingly effortless envelope.” - Kevin B. Sullivan, FAIA, President/CEO at Payette

Role of Nominee

Architectural Facade Design Lead

Architect of Record

Payette

Location

Cambridge, Massachusetts

Size

307,000 square feet

Completion

Anticipated 2024

Synopsis

In response to Payette’s visionary design satisfying the combined clients: Harvard, MIT, and Massachusetts General Hospital, and the donors of this multi-faceted research center, Babbington was responsible for designing and detailing, in his words, “the greatest hits of cutting-edge façade systems and technologies.”

Results

Babbington’s expertise in performance-driven materials and structure resulted in a sustainable cost-saving unitized system of robotically-constructed complex curvilinear aluminum shading fins that wrap the building. Babbington’s solutions also enabled the realization of such details as a mullion-less 25-foot-high sweep of pure glass around the base of the complex, a two-story timber curtain wall, and an ovular timber skylight over the central atrium. Resulting in a 61% reduction in energy compared to the 2030 baseline, Babbington’s envelope design included cost-effective offsite prefabricated construction strategies engineering relatively quick realization of the entire project, projecting technical construction possibilities for the entire Profession in the future.

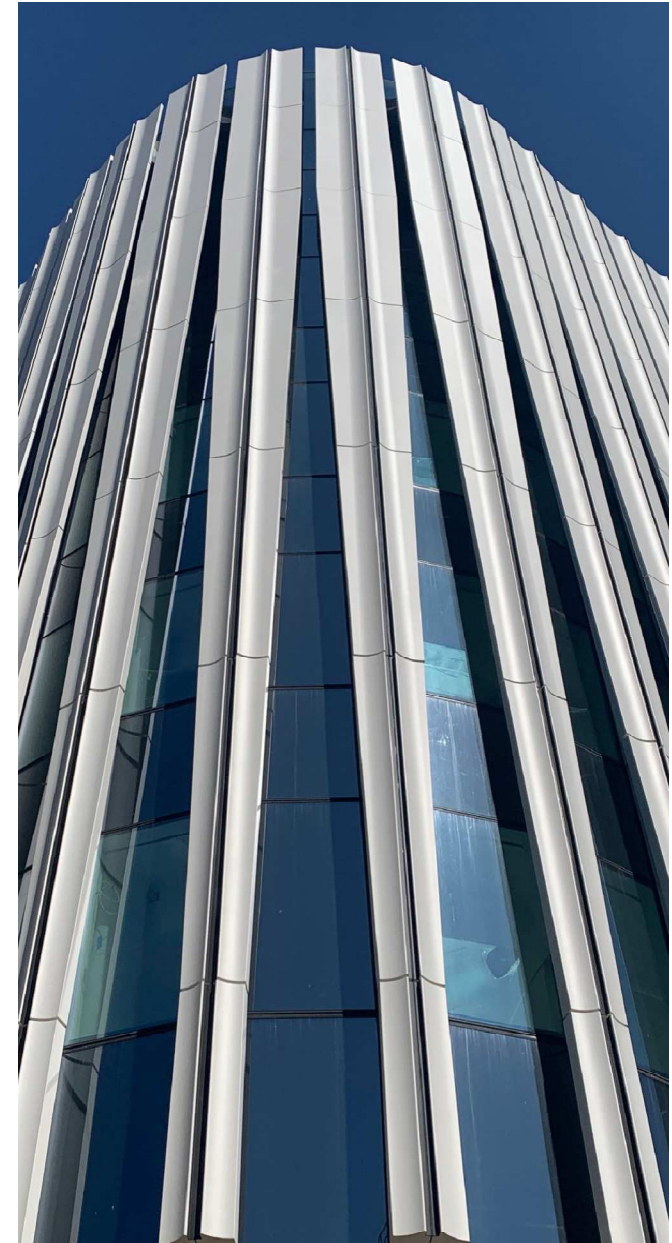
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Wesley Schwartz, AIA

Associate Principal, Payette

Role: Project Architect



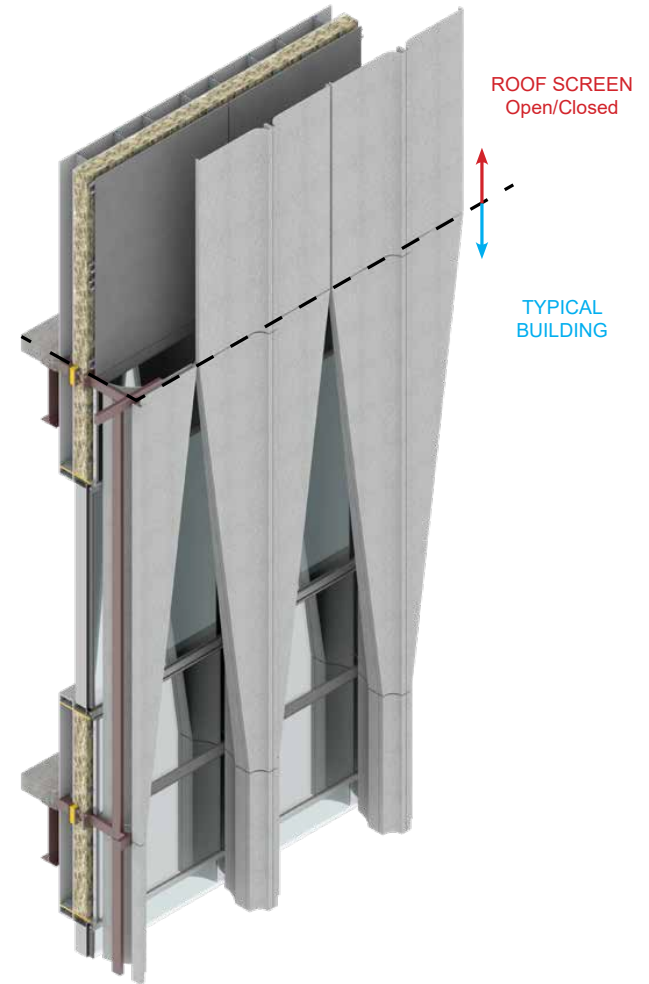
3.0 Exhibits - #9 The Ragon Institute of MGH, MIT, and Harvard



Innovative glass wall spanning 25 feet w/o mullions.



Timber skylight at central atrium



Studies for shade fin integration into curtain wall.

3.0 Exhibits - #10 Pace Galleries

“This project has given us the remarkable opportunity to help imagine the future of the gallery building typology.”

- Dominic Kozerski, RIBA, Co-Founder/Partner/Principal Bonnetti/Kozerski Architecture

Role of Nominee

Architectural Facade Design Lead

Architect of Record

bonnetti/kozerski architecture

Location

New York City, New York

Size

75,000 square feet

Completion

2019

Selected Awards

DNA Paris Design Awards Winner-Cultural Architecture
THE PLAN Awards Finalist, Culture

Selected Publications

“Pace Gallery Headquarters: A living Building for Democratic Art”
The Plan, 129 2021

“The Art Gang’s All Here-Christo, Kiki, Maya, Claes-
For the Pace Gallery Opening”
Vanity Fair, December 4, 2019

“Pace Gallery Unveils a Game-Changing Global
Flagship in Manhattan”
Architectural Digest, August 23, 2019

Synopsis

Set amidst New York’s “Pantheon of Architecture” along the High Line, this gallery was designed to stand out as a new cultural experience. The remarkable eight-story building’s minimalism was nonetheless intended to reflect understated warmth.

Results

Babbington’s finely-edited energy-efficient envelope solutions resulted in the architects qualifying for the Zone Green Standard, incentivizing owners to build with higher energy performance thresholds by allowing them more square footage.

Babbington engineered a universal wall system that would accept all of the cladding types chosen: large-scale windows on two sides are framed in volcanic rock, while the building’s two plainly-silhouetted sides are clad in a unique and ephemeral sculptural aluminum foam. Babbington’s panelized wall system of floor-to-ceiling windows was built off-site in Long Island and craned off the trucks directly onto the building, saving money, time, and construction challenges.

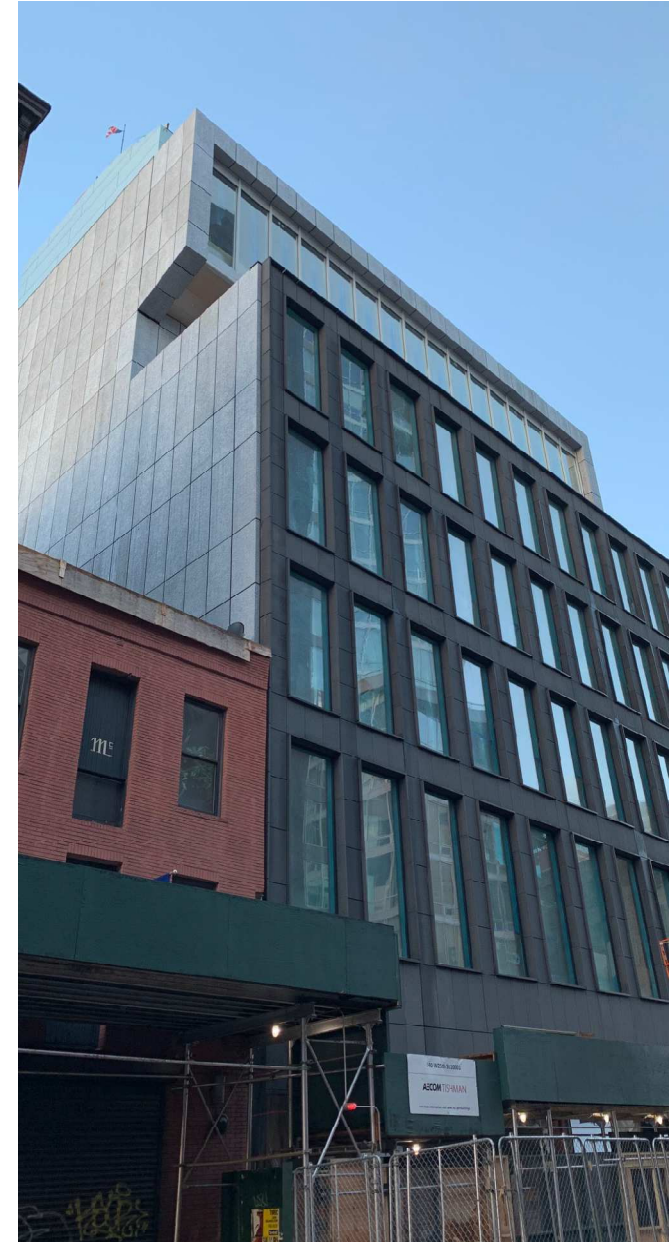
Floor-to-ceiling window systems were designed by Babbington to provide daylighting without damage to the artwork within. This and such details as his artistically-punctuated ventilation openings in the aluminum cladding fully embraced the architects’ intentions.

Declaration of Responsibility

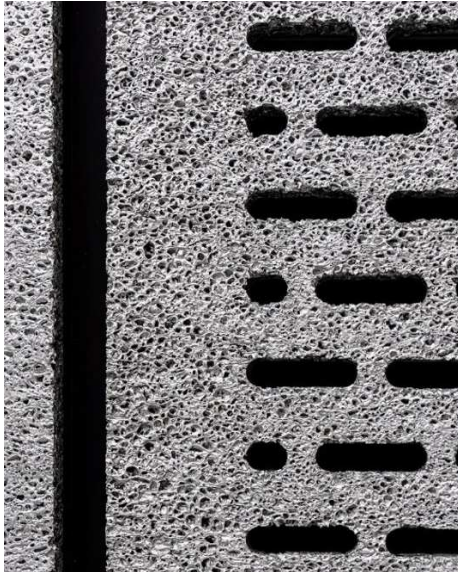
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Matteo Fraticelli, AIA, RIBA

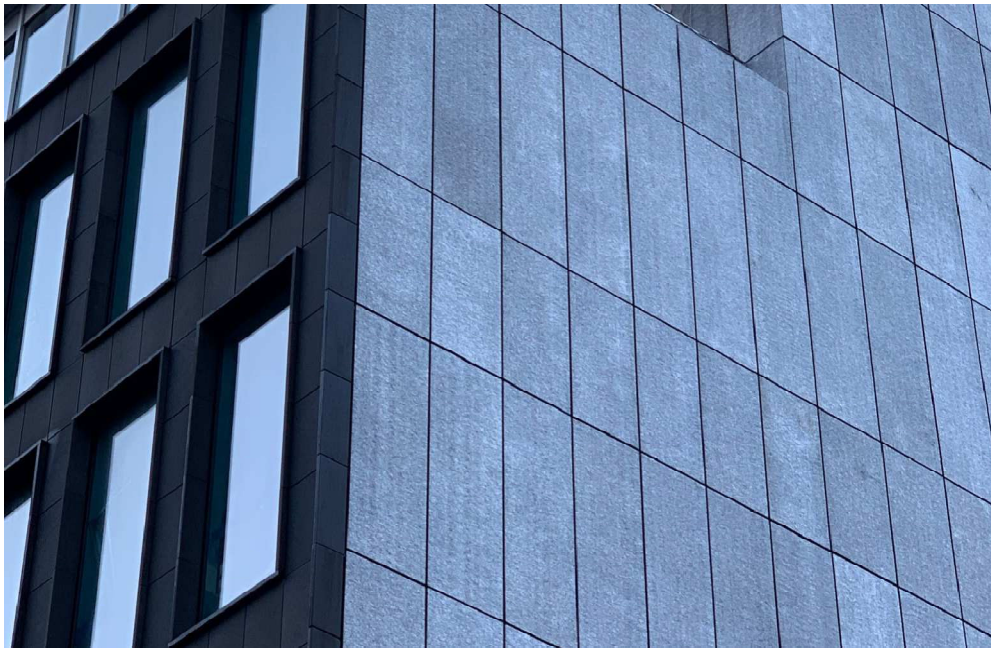
F-R-O-M Architecture (formerly bonnetti/kozerski)
Role: Project Manager | Project Architect



3.0 Exhibits - #10 Pace Galleries



Louver slots water-jet cut into foamed aluminum cladding.



Front facade's volcanic stone cladding and side facade's aluminum foam cladding.

