MATTHEW RIDGWAY, P.E.

REGIONAL MANAGER, BUILDING SCIENCE SOLUTIONS

YEARS WITH INTERTEK: 5 / YEARS IN INDUSTRY: 14

Mr. Ridgway is a licensed Architectural Engineer specializing in the assessment, design, analysis and remediation of building enclosure systems on historic and modern buildings, managing projects for both public and private clients. Matt is well-versed in the contemporary analysis and issues of building enclosure design, serviceability, materials selection and enclosure commissioning and often moderates discussions between stakeholders, consultants and local code/historic authorities. Mr. Ridgway's investigative and forensic work has focused on water intrusion, building instrumentation and condensation analysis for both modern and historic roofing, waterproofing, fenestration and opaque walls as well as manufacturing defects of prefabricated systems. Mr. Ridgway's experience in commercial and institutional project planning and repair prioritization inform his professional practice.

Summary of Experience

Mr. Ridgway is the Northeast Regional Manager of the Building Science Solutions consulting group for Intertek's Building and Construction Division. Duties include operations management of the Northeast Region (Philadelphia, New York City, New England), and technical oversight of diagnostic, forensic, inspection, consulting and design work. His core competencies include Building Enclosure Commissioning (BECx), water intrusion investigation and remediation, consulting and design work on a variety of historic and modern enclosures, assessments and programming, and construction QA/QC. He is experienced in working with and leading multi-disciplinary teams during remediation projects. Mr. Ridgway has been a guest speaker and guest lecturer at local Universities, the National AIA Convention, ASTM Symposia, and local RCI (IIBEC), NCC and BEC chapters.

Representative Projects

Enclosure Commissioning

- Maine Army and National Guard (MEARNG), Joint Forces Headquarters - Augusta, ME: New construction of a 100,000GSF headquarters.
- Penn Medicine, Chester County Hospital Expansion - West Chester, PA: A 250,000 GSF Emergency Department, inpatient and medical office expansion of the existing hospital.
- Lafayette College, Integrated Science Center – Easton, PA: New construction of a 100,000 GSF LEED Platinum science building adjacent to existing buildings within the Anderson Courtyard and situated on a steeply sloping site.
- The Children's Hospital of Philadelphia – Philadelphia, PA: New construction of a 480,000 GSF 22-story Class A Office Tower along the Schuylkill River in downtown Philadelphia. The project featured extensive plaza waterproofing and tie-ins to adjacent bridges and a unique unitized curtain wall.

Assessment and Remediation

- Gallery Mall/Fashion District - Philadelphia, PA : Waterproofing and existing enclosure remediation for 838,000GSF of multi-block retail interfacing with various pedestrian bridges, subgrade utilities and subway tunnels.
- Kimmel Center for the Arts- Philadelphia, PA: Investigation, diagnostic testing and remediation of 3.4acre skylight and surrounding roofs.
- Bryn Mawr College, Thomas Hall - Bryn Mawr, PA: Exterior façade restoration of historic masonry, vaults, steel and wood windows.
- Harvard Dunster Hall - Cambridge, MA: Exterior enclosure restoration of steep slope roofs, masonry walls and chimneys, clock tower/cupola, and decorative pediments.

Forensic Investigations

- CHOP South Tower – Philadelphia, PA: Corrosion and analysis related to premature failures of insitu cast iron sanitary piping.
- Research Collections and Preservation Consortium (ReCAP) - Princeton, NJ: Condensation analysis, and instrumentation related to high density storage of Ivy League Library Consortium collections.
- Duquesne University Towers - Pittsburgh, PA: Cavity wall construction and re-roof of podium waterproofing.
- Trolley Way Residential Development - Ardmore, PA: Investigation and re-clad of new construction related to stucco and flanged window assemblies.
- Bryn Mawr Hospital Window Condensation - Bryn Mawr, PA: Analysis and remediation of new aluminum framed curtain wall and window components related to systematic condensation.

Education

B.S. Dual Civil/Arch. Engineering
Drexel University
Philadelphia, Pennsylvania

Professional Licensing/ Certifications

Professional Engineer - RI, PA, NY, MA, ME
USBGC LEED Green Associate (LEED GA)
Certified Level I Thermographer
SPRAT Level I

Practice Areas

Assessment and Remediation
Enclosure Commissioning
Design Peer Review
Historic Restoration
Building Systems Integration
Building Instrumentation
Diagnostic /Forensic Evaluations

Representative Publications

"In The Skin" - Construction Today
"Acoustical Effects of Modern Building Envelope Advancements: You can Hear the Difference!" - Inter-Noise 2018
"The Four Orders of Failure in Building Skin Design and Construction" - RCI Symposium on Building Envelope Construction.
"Unintended Consequences: A Review of Critical Details, Serviceability and Durability of Modern High Performance Facades" - ASTM Symposium on Science and Physics of Building Performance

Professional Associations

ASTM DVGBC
IIBEC BEC