



PERSONNEL QUALIFICATIONS

Rita M. Ray | Senior Associate



EDUCATION

- University of Maryland, College Park
 - Bachelor of Science, Civil Engineering, 2004

PRACTICE AREAS

- Building Enclosure Commissioning
- Construction Observation Services
- Facade Assessment
- Leakage Investigation
- Peer Review
- Repair and Rehabilitation Design

REGISTRATIONS

- Professional Engineer in NC

PROFESSIONAL AFFILIATIONS

- American Institute of Architects
- American Society of Civil Engineers
- Building Enclosure Council - Raleigh, North Carolina, board chair

CONTACT

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EXPERIENCE

Since joining WJE in 2004, Rita Ray has been involved with failure investigation and repair design for both new and existing construction in the Washington, D.C.; Seattle, Washington; and Raleigh, North Carolina, metropolitan areas. Her recent work includes close involvement in several enclosure commissioning projects in North Carolina, providing design peer review as well as preconstruction and construction phase services to verify contractor compliance with the design intent and to address unanticipated design conditions in the field. Ms. Ray has been involved with multiple large-scale new construction projects involving the construction of multibuilding complexes for mixed residential and commercial use. She has broad-based experience in leakage investigations, building enclosure assessments, and repair design for existing construction.

As WJE's representative in the Raleigh-Durham area since April 2010, Ms. Ray has been active in the building enclosure commissioning of several projects on the University of North Carolina and North Carolina State University campuses in the Raleigh area and has been closely involved in the enclosure construction at the Terminal 1 Building of Raleigh/Durham International Airport. She was a founding member of the Research Triangle Chapter of the AIA's Building Envelope Council, serving as board chair during the 2012–2013 term. Ms. Ray currently serves on the board as the past chair.

REPRESENTATIVE PROJECTS

Building Envelope Commissioning

- The University of North Carolina at Chapel Hill, Genome Science Laboratory Building: Unitized curtain wall, metal panel, air barrier, and roofing review design through occupancy
- The University of North Carolina at Chapel Hill, Imaging Research Building: Curtain wall, punch window, air barrier, brick masonry, metal panel, precast concrete, and waterproofing, and roofing review from design through occupancy

- North Carolina State University, James B. Hunt, Jr. Library - Raleigh: Unitized curtain wall, fiber-cement panels, metal panels, air barrier, and roofing review from design through occupancy

Construction Period Services

- Raleigh/Durham International Airport, Terminal 1 - Raleigh, NC: Facade rehabilitation and reclad, aluminum curtain wall, metal panel, and air barrier
- City Vista - Washington, D.C.: New construction of multibuilding complex, mixed residential and commercial space, punch windows, brick masonry, and metal panels
- Rockville Town Square - MD: New construction of multibuilding, mixed residential and commercial space, brick masonry, cast stone, EIFS, and vinyl siding

Facade Assessment

- Cobb Building - Seattle, WA: Historic masonry and terra cotta condition survey using difficult access technique (bosun's chair)
- Olympia Group Health Cooperative - WA: Investigation and repair design to address leakage through masonry and glazing systems
- Virginia Polytechnic Institute, Smith Career Center - Blacksburg, VA: Investigation of leakage and exterior stone masonry failure; development of repair recommendations

Repair and Rehabilitation Design

- Anchorage Museum at Rasmuson Center - AK: Roof replacement and curtain wall replacement during exterior rehabilitation
- Harbour Square - Washington, D.C.: Full-scale exterior window and door replacement of aluminum-extruded windows and doors
- Security House Apartments - Seattle, WA: Exterior overclad and flashing rehabilitation