

Fiona Aldous | Principal



EDUCATION

- Deakin University
 - Bachelor of Arts, Architecture
 - Bachelor of Architecture
- Ball State University
 - Master of Architecture

PRACTICE AREAS

- Building Enclosure Commissioning
- Building Science
- Construction Observation and Troubleshooting
- Curtain Wall Systems
- Peer Review
- Repair and Rehabilitation Design
- Roofing and Waterproofing

PROFESSIONAL AFFILIATIONS

- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
- Air Barrier Association of America (ABAA), Board of Directors

REGISTRATIONS

- Accredited Building Enclosure Commissioning Process Provider (BECxP)
- Accredited Commissioning Authority + Building Enclosure (CxA+BE)

CONTACT

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EXPERIENCE

Fiona Aldous is involved with commissioning and design peer review of buildings enclosures, commencing with the pre-design phase, design phase and extending through completed construction with on-site observation and performance verification. She has specific experience in the detailing and installation of various curtain wall and window systems, sloped glazing, air barriers, waterproofing of below-grade and plaza systems, low slope roofs, and the interfaces of the various enclosure components. She has performed investigations and condition surveys on numerous building types and a variety of building enclosure systems. Such investigations typically have resulted in the development of repair designs to remediate distressed and defective building enclosures.

Before she joined WJE in 2001, Ms. Aldous coordinated the design-build exterior enclosure at Pfizer Global Laboratory and Manufacturing Facility in Ann Arbor, Michigan, while working for Turner Construction Company. Prior to her roles in commercial construction, Ms. Aldous taught design-build at the College of Architecture and Planning at Ball State University. She also designed, developed, and built low-income housing by adaptive reuse of historic buildings.

REPRESENTATIVE PROJECTS

Building Enclosure Commissioning

- University of Texas Southwestern Medical Center, Clements University Hospital - Dallas: Curtain wall, strip windows, precast panels, air barrier and built up roof assembly predesign, including Owner's Project Requirements (OPR) through construction and performance testing
- State of Maryland Public Health Laboratory - Baltimore, MD. Below grade waterproofing, curtain wall, punch windows, masonry veneer, air barrier, metal panels and hot fluid applied roofing and waterproofing, including Owner's Project Requirements (OPR) through construction and performance testing

- North Carolina State University, Hunt Library - Raleigh: Unitized curtain wall enclosure, air barrier, and cool and green roof design review through construction and performance testing and training of the owner
- University of North Carolina at Chapel Hill, Image Research Building: Curtain wall, punch window, and air barrier and roofing design review through construction and performance testing
- University of Wisconsin-Madison Wisconsin Institutes for Discovery: Terra cotta rain-screen cladding, air barrier, curtain wall, skylights, and roof design review through construction and performance testing, including whole building air test
- The University of Georgia, Art Museum Addition - Athens: Limestone rain screen cladding, air barrier, curtain wall, skylight, and roofing design review through construction and performance testing
- Constitution Center Office Building - Washington, D.C.: Unitized curtain wall, precast panel, and roof design review through construction and performance testing

Peer Review

- Marriott Potomac Yard -Arlington, VA: Peer review through construction of hotel, including masonry, precast, windows, and green roof
- United States Institute for Peace Museum - Washington, D.C.: Peer review through construction of unitized curtain wall, skylight, precast panels, and roof
- The Veridian Apartment Building - Silver Spring, MD: Peer review through construction of masonry veneer, air barrier, punch windows, and green roof

Repair and Rehabilitation Design

- Grand Cayman Ritz Carlton - Cayman Islands: Renovation of exterior facades, window replacement and roof replacements
- Salamander Resort - Middleburg, VA: Condition survey, window replacement and design assistance to Architect of Record.
- Eisenhower Executive Office Building - Washington, D.C.: Roof and skylight repairs