

Fiona Aldous | Principal



EDUCATION

- Deakin University
 - Bachelor of Arts, Architecture, 1990
 - Bachelor of Architecture 1992
- Ball State University
 - Master of Architecture, 1994

PRACTICE AREAS

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

PROFESSIONAL AFFILIATIONS

- Accredited Building Enclosure Commissioning Process Provider (BECxP)
- Accredited Commissioning Authority + Building Enclosure (CxA+BE)
- Air Barrier Association of America (ABAA) Board of Directors
- American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)

CONTACT

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EXPERIENCE

Fiona Aldous is involved with commissioning and design peer review of building enclosures for new construction, commencing with the predesign phase, and extending throughout construction with on-site observation and performance verification. Ms. Aldous was instrumental in developing building enclosure commissioning industry standards and guidelines, and also teaches professionals the process.

Ms. Aldous has extensive 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 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.

REPRESENTATIVE PROJECTS

Building Enclosure Commissioning

- Clements University Hospital, University of Texas Southwestern Medical Center - Dallas, TX: 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 OPR through construction and performance testing
- Corning Museum of Glass Addition - Corning, NY: Glass rain screen cladding, air barrier, skylights, and roofing; predesign, through occupancy BECx services
- North Carolina State University, Hunt Library, - Raleigh, NC: Unitized curtain wall enclosure, air barrier, and cool and green roof design review through construction and performance testing and training of the owner

- Image Research Building, University of North Carolina - Chapel Hill, NC: Curtain wall, punch window, and air barrier and roofing design review through construction and performance testing
- University of Wisconsin, Wisconsin Institutes for Discovery - Madison, WI: Terra cotta rain screen cladding, air barrier, curtain wall, skylights, and roof design review through construction and performance testing, including whole building air test
- Moncrief Cancer Institute - Fort Worth, TX: Terra cotta rain screen cladding, air barrier, curtain wall, skylights, and roof design review through construction and performance testing
- University of Georgia, Art Museum Addition, - Athens, GA: 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

- Department of Justice Laboratory, Terrorist Explosive Device Analytical Center - Huntsville, AL: Peer review through construction of precast panels, punch windows, and roof
- University of Texas Southwestern Medical Center, Laboratory Building, Phase 5, - Dallas, TX: Peer review through construction of laboratory building, including precast, strip windows, curtain wall, and roof

Repair and Rehabilitation

- University of Texas Southwestern Medical Center, Existing Buildings - Dallas, TX: Condition survey, facade repairs, roof replacement design, and construction administration on multiple buildings
- Medical University of South Carolina Existing Buildings - Charleston, SC: Condition survey, facade repairs, roof replacement design, and construction administration on multiple buildings