

### Ben Cook | Associate Principal



#### EDUCATION

- Alfred State College
  - Associate in Applied Science, Architectural Engineering Technology, 1993
- Clarkson University
  - Bachelor of Science, Civil Engineering, 1996
- University of Washington
  - Master of Science, Structural Engineering, 2005

#### PRACTICE AREAS

- Design
- Failure Investigation
- Structural Testing
- Repair and Rehabilitation Design
- Structural Evaluation

#### REGISTRATIONS

- Certified Welding Inspector
- National Council of Examiners for Engineering and Surveying - Model Law Structural Engineer
- Professional Engineer in CO, MO, MT, SD, TX, UT, WA, and WY
- Structural Engineer in NE and WA

#### TECHNICAL COMMITTEES

- SEAC - Business Practice
- SEAC - Existing Structures Committee
- SEAC - Seismic Standards
- SEAC - Steel Materials, chair

#### CONTACT

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#### EXPERIENCE

Ben Cook has twenty-one years of experience in structural engineering and has broad based experience with steel, concrete, timber, masonry, aluminum, and stainless steel structures. Mr. Cook's diverse background includes new structural design, investigation of collapsed structures and other failures, and repair and rehabilitation of aging and distressed structures.

Prior to joining WJE, Mr. Cook was an engineering team manager with the structural engineering firm Swenson Say Faget in Seattle, Washington, and he was an associate with the structural engineering firm J.R. Harris & Company in Denver, Colorado.

#### REPRESENTATIVE PROJECTS

##### Design

- Las Bambas Mine - Dept. of Apurimac, Peru: Design of structural steel connections for transfer station tower and four trusses as part of a new overland conveyor belt.
- Denver Veteran's Administration Medical Center - Denver, CO: Design of numerous miscellaneous metal structures
- Colorado Public School Projects: Design of repairs to mitigate structural deficiencies in several modern public school buildings

##### Failure/Damage Investigation

- Landmark Formwork Failure - Greenwood Village, CO: Investigation of collapse of 800-square-foot concrete roof slab formwork
- Brittle Rebar Fractures - Denver, CO: Investigation of brittle fractures in cold-bent, galvanized reinforcing bars to be used in new precast concrete elements
- Private Residence - Glenwood Springs, CO: Investigation of foundation settlements on hydrocollapsible soils
- Convention Center Hotel - Denver, CO: Assessment of failed metal cladding panel anchorage on a thirty-eight story hotel building
- Office Building - Glendale, CO: Assessment of failed Alucobond cladding panel anchorage on a 1980s era high-rise office tower

#### Structural Testing

- Open-Web Steel Joists - Northbrook, IL: Full-scale load testing of SJI-designed steel joists
- Tri-State Energy Painter's Ring - Nucla, CO: Load testing and rating of painter's ring at top of 215-foot-tall steel steam stack
- Rivergate Shear Wall Load Tests - Northbrook, IL: Construction and load testing of steel stud and gypsum sheathing shear wall assemblies

#### Repair and Rehabilitation Design

- YMCA of the Rockies Conference Center - Estes Park, CO: Design of extensive structural repairs for 35,000-square-foot steel- and timber-framed conference center
- Annie Mitchell Housing Roof - Aspen, CO: Design of retrofit snow fence system and its support by existing wood-framed trusses
- Arapahoe Community College - Littleton, CO: Design of concrete repairs and plaza waterproofing system for main campus building
- 3.4MG Water Tank Repairs - Canon City, CO: Design of structural repairs for steel roof framing with advanced corrosion

#### Structural Evaluation

- Gunnison Valley Hospital Addition - Gunnison, CO: Peer review of structural engineering design for sizable addition and renovation to original hospital building
- Horsecreek Flume - Las Animas, CO: Evaluation of aged and heavily corroded 10 feet diameter 400 feet long elevated structural irrigation pipeline
- 1660 Lincoln Street - Denver, CO: Peer review of curtain wall structural system
- 1930s Elevated Water Tower - Nisland, SD: Evaluation of water tower structure impacted by severe wind event
- Sturgis Williams Middle School - Sturgis, SD: Evaluation of snow-related partial collapse of metal truss framed roof structure

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- American Welding Society (AWS)
- Rocky Mountain Steel Construction Association (RMSCA)
- Structural Engineers Association of Colorado (SEAC)