

### Kremena Angelova | Associate III



#### EDUCATION

- Illinois Institute of Technology
  - Bachelor of Science, Civil Engineering, 2018
  - Master of Engineering, Structural Engineering, 2018

#### PRACTICE AREAS

- Building Enclosure Consulting
- Failure/Damage Investigation
- Litigation Consulting
- Structural Evaluation and Retrofit Design
- Structural Analysis and Design/Computer Modeling

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineering (ASCE)
- Structural Engineers Association of Illinois (SEAOI)
- Rainscreen Association in North America (RAiNA)

#### CONTACT

kAngelova@wje.com  
mobile: +1 773 704 3467  
www.wje.com

#### EXPERIENCE

Since joining WJE in 2019, Kremena Angelova has participated in a variety of engineering and architectural projects, including facade assessment, fire engineering review, structural analysis and evaluation, repair design, and construction monitoring. She has significant experience in the evaluation of fire performance of cladding materials and systems, having performed such assessments on more than one hundred properties throughout Europe. Ms. Angelova has particular interest in investigating failures and designing solutions for the rehabilitation and repair of exterior envelopes.

Prior to joining WJE, Ms. Angelova worked in the structural engineering group at Thornton Tomasetti (TT) in Chicago, Illinois. While at TT, she was involved with structural analysis, computer modeling, and design of tall buildings and commercial developments. While attending graduate school at the Illinois Institute of Technology, Ms. Angelova also served as a teaching assistant for a structural analysis course.

#### REPRESENTATIVE PROJECTS

##### Building Enclosure Consulting

- Global Student Accommodation - England, Wales, and Scotland: Fire safety risk assessment of exterior wall and cladding systems for multiple properties
- Accor Hotels - United Kingdom and Europe: Fire safety assessment of hotel exterior cladding systems for multiple properties
- Portfolio of Purpose-Built Student Accommodations - England, Scotland, and Ireland: Facade fire assessment of exterior wall and cladding systems for multiple properties
- Print Hall - Bristol, England: Facade and fire engineering consulting services for cladding refurbishment and interior passive fire protection repairs

##### Failure/Damage Investigation

- CTA Station - Chicago, IL: Glass breakage investigation
- Mid-Rise Condominiums - Homestead, FL: Hurricane damage evaluation
- Mid-Rise Condominiums - Aventura, FL: Hurricane damage evaluation

#### Litigation Consulting

- Litigation/Subrogation Cases - Nationwide: High-rises, commercial, aquatic and community centers

#### Structural Evaluation and Retrofit Design

- The Salvation Army Kroc Corps Community Center - Quincy, IL: Evaluation and strengthening of roof framing for mechanical loading
- Mid-Rise Residential Property - Wilmette, IL: Balcony, masonry, and window repairs
- Town Place Circle - Buffalo Grove, IL: Condition assessment of metal railings and concrete retaining walls
- Art Institute of Chicago - IL: Structural review and strengthening of timber installation
- Oriental Institute Museum - Chicago, IL: Structural evaluation and retrofit of art installation
- Mid-Rise Residential Property - Buffalo Grove, IL: Investigation of timber framing and repair design

#### Structural Analysis and Design/Computer Modeling

- Mall of Saudi - Riyadh, Saudi Arabia: Structural analysis and optimization of steel framing \*
- Al Wasl - Dubai, UAE: Structural analysis and vibration study of steel frame building\*
- Couture Tower - Milwaukee, WI: Structural analysis and design of concrete-framed high-rise building \*
- High-Rise Residential Development - Ayia Napa, Cyprus: Structural analysis and design of concrete-framed residential towers \*
- Wrigley Field - Chicago, IL: Building information modeling \*
- Willis Tower Repositioning - Chicago, IL: Building information modeling and clash detection between structural and architectural models \*

\* Indicates project work at previous firm