



#### EDUCATION

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

#### PRACTICE AREAS

- Envelope and Structure
- Fire Safety
- Fire and Structural Damage Investigation
- Structural Evaluation and Retrofit Design
- Structural Analysis and Design/Computer Modeling

#### PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineering
- Rainscreen Association of North America
- Society of Fire Protection Engineers
- Structural Engineers Association of Illinois

#### CONTACT

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#### EXPERIENCE

Since joining WJE in 2019, Kremena Angelova has participated in various engineering projects, including fire engineering assessment, damage investigation, structural evaluation, and related repair design and construction review. 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 and structural elements.

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

##### Envelope and Structure Fire Safety

- Student Roost Student Accommodation - England, Wales, Scotland, and Northern Ireland: External wall fire safety assessment of approximately sixty properties
- Accor Hotels - United Kingdom, Europe, Asia: Multiphase fire safety assessment of hotel exterior cladding systems for more than eight hundred properties
- Global Student Accommodation - United Kingdom and Europe: Fire engineering design assistance, design review, and construction review for external wall and cladding remedial works on approximately thirty properties
- Saint Crispin's House - Norwich, England: Review of fire safety design
- Print Hall - Bristol, England: Review of fire separation and internal fire-stopping works
- Pennine Five - Sheffield, England: Assessment of existing structural fire protection and fire separation elements

##### Fire and Structural Damage Investigation

- Multipurpose Building - Calumet City, IL: Investigation of fire-damaged wood, steel, and masonry structure
- Manufacturing Plant - Hopkinsville, TN: Investigation of fire-damaged steel structure
- Manufacturing Plant - Marinette, WI: Investigation of fire-damaged steel structure and concrete podium
- Chicago Transit Authority Station - IL: Glass breakage investigation
- Mid-Rise Condominiums - Homestead, FL: Hurricane damage evaluation
- Mid-Rise Condominiums - Aventura, FL: Hurricane damage evaluation

##### 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, United Arab Emirates: 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 \*

\* Indicates project work at previous firm