

Student “Three Minutes” Failure Case Study Competition

Registration form <https://forms.gle/kXcbqpXmyLsZixyC6>

All students majoring in engineering, construction, and/or architecture are invited to participate in an individual “three minutes” failure case study competition to win a free registration and travel expenses to the [ASCE 9th Forensic Engineering Congress](#), in Denver, CO on November 4 – 7, 2022.

This competition takes the format of “Three Minute Thesis” which was originally developed by the University of Queensland for graduate students. Students have three minutes to present one PowerPoint slide on a case study of a civil infrastructure or a building failure. The competition encourages participants’ communication skills through effectively presenting a failure case study in just three minutes.

Three finalists of the student competition will win free registrations for ASCE 9th Forensic Engineering Congress and will present their case studies on November 7, 2022 to compete for cash prizes. Travels will be reimbursed through conference sponsorship including air fares and accommodations.

- First Place \$500
- Second Place \$300
- Third Place \$200

3 min. presentation

- Student Competition Registration open 9/23/2022
- Student Competition Registration close 9/30/2022
- Preliminary presentations and/or recording submission deadline 10/7/2022
- Three finalists announced 10/10/2022

Finals (3 min. presentation + 2 min. Q&A)

- 9th Forensic Engineering Congress Closing Plenary November 7, 2022

Suggested Contents in the “Three Minutes” presentation

- Describe the structure and relevant conditions
- What happened?
- Why did the failure occur?
- How was the root cause of the failure identified?
- What lessons were learned?

In addition to images and words in the presentation, computational simulations, animations, and videos can be incorporated on the one side PowerPoint. The presentations will be recorded and managed by ASCE FED Education Committee. With presenters’ permissions, selected recordings will be published on Vimeo or a YouTube Chanel managed by the committee. Presenters should respect intellectual property and appropriate reference sources. Unacceptable or unlawful use of intellectual property during the competition will not be tolerated.

Please submit your questions or inquiries if any to Dr. Rui Liu at rliu5@kent.edu.

Rubrics for Presentations

Category	Scoring Criteria	Total Points	Score
Communication	Did the PowerPoint slide enhance the presentation? Did the presentation conclude within the prescribed timeframe?	10	
Engagement	Did the presenter capture and maintain the interest of the audience? Did the presenter convey enthusiasm for the project?	10	
Content	Did the presentation clearly address what happened? Did the presentation adequately describe the methodology used in the forensic failure investigation? Were the root causes of the failure described clearly? Did the presentation provide lessons learned?	20	
Comprehension	Did the presenter use proper scientific or professional terminologies to help audience understand the failure case study?	10	
Total		50	

Judges

Three judges for each group (10 presentations) for preliminaries.

Recommended judges for the final round:

- Norb Delatte, Professor and Chair, Oklahoma State University
- M. Kevin Parfitt, Professor Emeritus, Penn State
- Paul Bosela Sr., Professor Emeritus, Cleveland State University

Eligibility

Student must be a current member of ASCE to be eligible. ASCE membership is free for students (click [here](#) to join).

Why join ASCE? With a full suite of programs and resources to help you thrive, ASCE membership provides you with the knowledge and opportunities you'll need to jump into the industry, get on the right career



path, and have fun doing it. Join thousands of ASCE Student Members who are making a difference in the civil engineering professional community while still in college!

Travel Funding & Reimbursement Policy

ASCE staff will reserve a hotel room for each of the three selected finalists upon receipt of contact information (Name, School, Physical address, Email Address, Phone number, ASCE member number) and travel dates. ASCE will pay directly for hotel room nights and applicable fees and taxes. Each finalist will be responsible for incidentals if applicable.

ASCE staff will register each of the three selected finalists for the conference upon receipt of: Name, School, Physical address, Email Address, Phone number, ASCE member number, and any dietary restrictions and/or special accommodations requested.

Finalists will be responsible for booking travel arrangements to and from the conference. ASCE will reimburse each of the three finalists after the conference for transportation in accordance with ASCE's Rules of Policy and Procedure, as noted below. Finalists will not receive per diem.

Requests for reimbursement must be submitted to ASCE staff (Jay Snyder at jsnyder@asce.org and Lindsay O'Leary at lolarey@asce.org) not later than sixty (60) days after the associated conference and must be accompanied by receipts for airline or train travel.

The cost of transportation may be reimbursed for air, ship, train, or motor vehicle travel, but not in excess of the applicable portion of a fourteen (14) day advance purchase, roundtrip, coach airfare ticket. Reimbursement shall be provided for airfare that utilizes the most cost-effective route of travel to and from the meeting location. Mileage reimbursement for use of motor vehicles shall not exceed the IRS allowable rate. With pre-approval, exceptions may be made for travel originating in and returning to different locations, or for travel originating in and returning to locations other than the primary residence of the traveler. Exceptions may also be made when special circumstances result in higher transportation costs.

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