

June 2022

**ASCE SEATTLE JUNE VIRTUAL MEETING:**

**INITIAL INVESTIGATION INTO  
THE PARTIAL COLLAPSE OF  
THE CHAPLAIN TOWERS  
SOUTH (CTS) BUILDING IN  
SURFSIDE FLORIDA**

JOIN US VIRTUALLY ON ZOOM  
WEDNESDAY, JUNE 8  
5:30PM - 7:00PM



**Topic: Initial Investigation into the Partial Collapse of the Chaplain Towers South (CTS) Building in Surfside Florida - by Dawn Lehman**

[Register Here](#)

On June 24, 2021, the Chaplain Towers South building in Surfside Florida collapsed without warning. The initial collapse occurred outside of the building tower, in the pool deck region. Seven minutes later, the central portion of the building collapsed; the eastern portion of the building collapsed quickly after that. The western section of the building remained standing. Professor Lehman worked with an investigative journalist team at the Miami Herald led by Sarah Blaskey to investigate the partial collapse using tools and technologies she had developed through her research on seismic evaluation of existing buildings and design of new concrete connections. The primary objective of the investigation is to understand how initial damage in a pool deck could lead to partial collapse of this flat-plate cast-in-place reinforced concrete structure with an eye towards improving evaluation methods for these structures. This talk will address the building collapse using: (1) timeline of the collapse as reported by witnesses, (2) building damage photographs and videos, (3) building plans and repair drawings and permits, and (4) advanced nonlinear finite element analyses of the Level 1 slab to investigate possible initiation points and progression of damage.

**Date:** Wednesday, June 8

**Time:** 5:30pm - 7:00pm

**Location:** Virtual, Zoom

## June President's Column

By Don Nguyen, PE, SE, ENV SP, STP  
ASCE Seattle Section President

Hello Seattle Section!

The Student Presentations and Life Members Celebration was held last month. The top 3 student presentations from UW and from SU will receive cash prizes from the Seattle Section! First place from each school got to present at our May Section meeting. At the meeting, we also celebrated our newest life members. See below



for a summary of the winning student presentations as well as the newest life members.

The PSEC Awards Banquet was also in May. PSEC stands for the Puget Sound Engineering Council, which is an organization composed of the local chapters of the different engineering societies around the Puget Sound. ASCE took home 3 of the PSEC Awards at the PSEC Awards Banquet.

Government Engineer of the Year, 2022 - Susan Chang, Ph. D., P. E., Seattle Department of Construction and Inspections:

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Forum



Young Engineer of the Year, 2022 - Amy J. Moore, EIT, Flatiron Construction:



Professional Engineer of the Year, 2022 - M. Lee Marsh, Ph. D., P. E., WSP USA, Inc.:



**SEPTEMBER 2022  
NEWSLETTER  
CONTENT DEADLINE:  
August 20, 2022**

Visit the [PSEC Awards website](#) for more information on the winners as well as the winners of the other categories.

We also held our local elections in May. Congratulations to Katie Sultani-Wright as the President-Elect and Mike Senior as the Director of Technical Committees! **We are still on the lookout to fill the positions of Treasurer and Secretary.** If you or someone you know would like to take on these leadership roles, please let us know!

We won't have newsletters for July and August. Some committees will still be active, and will still be sending out their own event details. Have a great summer and stay safe!

Are you considering becoming an ASCE Member?  
Each month we'll be highlighting a unique benefit of membership.

**Submit a Conference or Journal Paper or Book Idea**

Gain recognition as you share critical insights and innovations. [https://www.asce.org/call\\_for\\_papers/](https://www.asce.org/call_for_papers/)



## ASCE SEATTLE SCHOLARSHIP NOW OPEN!

### RICHARD WILLIAMSON JONES MEMORIAL SCHOLARSHIP

**DUE JUNE 25, 2022 (\$2,000!)**

## 2022 Student Competitions



### 1st Place: Assessing Impact of Precipitation and Surface Air Temperature on Groundwater Levels

Bareera Nadeem Mirza

### 2nd Place: Identifying VRUs at Intersections with Early Stage LiDAR Features

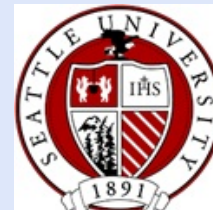
Shuyi Yin

### 3rd Place: Real-Time Lot System for Traffic Sensing by Edge Computing and Multi-Camera Vehicle Re-Identification

Hao Frank Yang

### Thank you to our Judges!

Phil Yu - Mott MacDonald  
Katarina Kubiniec - KPFF  
Amy Moore - Flatiron West



### 1st Place: Lucky Peak Powerhouse Seismic Retrofit for Seattle City Light

Roberto Cordero Aguilar, Mauricio Ayala-Cruz,  
Mia Pizzuto, Eugenio Sanchez, Meng Juan Timm

### 2nd Place: Three-Way Intersection Improvement for Snohomish County

Tyler Lam, Allyssa Manlapaz, Camryn Okada,  
Dorin Russu, Andre Shigetomi

### 3rd Place: Larned Apartment Seismic Retrofit for Community Root Housing / Swenson Say Faget

Rilen Loo, Jarred Mahon, Quinn Nakasato, Lan  
Nguyen, Lawrence Takemoto

### Thank you to our Judges!

Mike Harney - Shannon and Wilson  
Megan King - Port of Seattle  
Keith Kruger - CPL  
Eric O'Brien - FEMA  
Matthew Moore - Tetrattech  
Zach Stutts - WJE Associates

## 2022 Life Members

Cheryl A Jones, P.E., M.ASCE

Jay Regenstreif, P.E., M.ASCE

William Robert Olwell, P.E., M.ASCE

Michael John Shoemaker, M.ASCE

Conrad W Felice, Ph.D., P.E., P.Eng, D.GE,  
F.ASCE

Steven Douglas Plante, P.E., M.ASCE

Scott Edward Mahnken, P.E., M.ASCE

Carl James Einfeld, P.E., M.ASCE

Christian Peter Schumacher, P.E., M.ASCE

Richard Irving Kittler, P.E., M.ASCE

Paul Michael Craig, P.E., M.ASCE

Bernard Lee Hargrave, P.E., M.ASCE

Kenneth Dean Andersen, M.ASCE

Lisa Diane Tobin, P.E., L.S., M.ASCE

Edwin Shepherd Field, P.E., M.ASCE

Mark Elliott Gordon, P.E., M.ASCE

Diane M Hilmo, P.E., M.ASCE

Paul David Tappel, P.E., M.ASCE

John Godwin Tawresey, P.E., F.SEI, Dist.M.ASCE

## CONGRATULATIONS!

### Upcoming Committee Meetings

#### History & Heritage Committee

The ASCE Seattle **History and Heritage Committee's** next meeting will be held on **Saturday, June 4, at 8:30am**. History & Heritage Committee meetings are held via Zoom. If you are interested in joining ASCE Seattle's History and Heritage Committee or attending their monthly virtual meetings, reach out to [Cindy Hirsch](#).

#### EWRI Committee

The EWRI March online lunch presentation is on **Thursday, June 16 at 12pm (noon)**

Contact [seattleascewre@gmail.com](mailto:seattleascewre@gmail.com) if you are interested in being added to the Seattle Section EWRI mailing list to make sure you receive EWRI meeting notices and the link to join the virtual meeting!

#### Diversity Committee

The next Diversity Committee Meeting is scheduled for **Tuesday, June 21 at 5pm**.

If you are interested in joining ASCE Seattle's Diversity Committee or attending their monthly virtual meetings, reach out to Diversity Chair, [Joshua Shin](#).

#### North Branch

Join the North Branch on **June 6** for a tour of the **WSDOT I-5 and SR 11 Padden Creek – Fish Passage Site Visit!** Join us afterwards for a social at Archer Ale House.

#### Details

Time: 4:00 p.m.

Parking and Meeting Location: Starbucks parking lot at 3105 Old Fairhaven Pkwy, Bellingham, WA 98225

**PPE Requirements:** Active construction site PPE (Boots, hard hat, high visibility vest or jacket)

The site visit will be a walking tour lasting approximately 1-hour of completed and ongoing fish passage improvement work at Padden Creek in Bellingham.

After Site Visit ASCE YMF Happy Hour at Archer Ale House, 1212 10th St, Bellingham, WA 98225

Time: 5:30 p.m.

Please RSVP to Kyle

List @ [kyle@gobluecoast.com](mailto:kyle@gobluecoast.com) if you plan to attend the tour. We'd like to have a general idea how many people to expect.

### LOCEA Spotlight

Congratulations to the winners of the 2022 LOCEA Awards (presented March, 2022)! Each month we will be highlighting a different LOCEA award winning project. This month we are pleased to highlight the winner in the **Outstanding Structures Category**:

#### Climate Pledge Arena

**Project Owner:** Oak View Group

**Nominated by:** Thornton Tomasetti, Inc.

The historic KeyArena, which was built for the 1962 Seattle World's Fair, has undergone a major transformation, becoming home to the NHL's newest franchise, the Seattle Kraken. The \$930- million renovation and expansion is now Climate Pledge Arena, an 800,000-square-foot, mostly below-grade venue that will hold more than 17,000 fans for



hockey, basketball, concerts, and other events.

What makes this project stand out from other large renovations is the preservation of the historically landmarked, 44-million-pound roof structure and exterior curtain wall. The near-total demolition of the structure below the roof presented several complex challenges. Most notable among these was how to demolish the structure and excavate 680,000 cubic yards of soil to make way for construction of a new world-class below-grade arena, all while temporarily supporting the roof structure above it. Complicating matters further were the arena's location in a high seismic zone, the project's aggressive schedule, and the owner's commitment to making it the first net-zero certified arena in the world.

The project team worked together seamlessly to address these challenges and transform a historic venue into a first-class sports and event facility, which opened in time for the NHL's 2021-2022 season.

[Read about all the LOCEA Award Winners here.](#)

## Membership Discount for WSDOT Employees

Attention WSDOT employees! A new ASCE membership discount is now available to you! WSDOT employees can now receive a **25% discount on membership renewals and new memberships using promo code DOT-WSDOT**. Enjoy all the benefits of membership, including 10 free professional development hours (PDHs) and more!



Not currently a member? Go to <https://www.asce.org/join/> and Click "Join Now." Use your WSDOT email address (alternate emails can be added later) and use the promo code to receive 25% off!

If you need any assistance in joining, please contact ASCE at (800) 548-2723 or [gov\\_engineer@asce.org](mailto:gov_engineer@asce.org).

## K-12 Volunteer Interest Form

**Are you interested in volunteering for K-12 STEM events and interested in inspiring the next generation of engineers?**

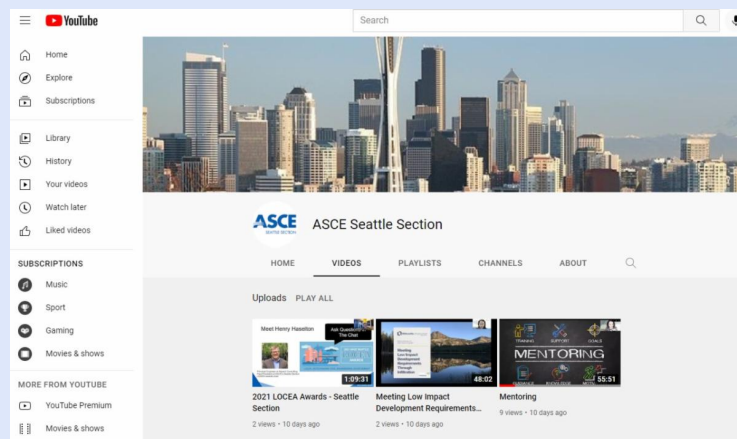
If you answered **YES**, please fill out the google form to the right if you would like to be updated about future K-12 volunteer events in the Seattle Area. After you fill out this form, you will be notified of K-12 volunteer opportunities in the area. Please know that you are not required to sign up for any event by filling out this form.



[Google Form](#)

Please contact Nicki Peden (K-12 Outreach Chair) at [k12asce.seattle@gmail.com](mailto:k12asce.seattle@gmail.com) for any questions, comments or additional information

## Section Meeting Recordings Now on YouTube!



ASCE Seattle is now on YouTube!

Find recordings of our past Section Meetings and subscribe to our channel to catch future videos here:

[ASCE Seattle Section - YouTube](#)

# ASCE Seattle Job Board

There are no current jobs on our job board - advertise your open positions today!

[Click to View Full Descriptions & How to Apply!](#)

Advertise your current open positions to ASCE Seattle members today for only \$75 for the first month and \$50 for each subsequent month of the same content.

[Email communications@seattleasce.org to learn more.](mailto:communications@seattleasce.org)

## **DID YOU KNOW?**

All ASCE Seattle Members are always invited to join the Seattle Section Board Members at the monthly Board Meeting. Interested in attending? Check the [calendar on the ASCE Seattle website](#) for the meeting time and location and email [president@seattleasce.org](mailto:president@seattleasce.org) if you plan on joining us!

Are you passionate about social media? Interested in helping the Seattle Section grow our virtual presence? Reach out to our Communications Chair at [communications@seattleasce.org](mailto:communications@seattleasce.org), we're looking for creative minds to help grow and improve our social media!

