

# Alaska Capital Engineers

A branch of the American Society of Civil Engineers

April 2025 Newsletter

## **April Luncheon Topic: Engineering Coastal Road Adaptation in Hawai'i**

**Location: UAS Rec Center Room 115**

**Date: April 20th at 12 PM**

**Cost: \$20**

### **Guiding Design: Engineering Coastal Road Adaptation in Hawai'i**



### **Oceana Francis ASCE Region 8 Governor**

Dr. Oceana P. Francis is a Professor in the Department of Civil, Environmental and Construction Engineering at the University of Hawai'i at Manoa. Her research focuses on the resilience of urban communities and infrastructure systems from hydrodynamic hazards. She is a licensed civil engineer in both Alaska and Hawaii. She serves ASCE in several roles including Region 8 Governor; faculty advisor for the ASCE Hawaii Student Chapter; and as past president for ASCE Fairbanks Branch. She received her MS from UAA and PhD from UAF.

This talk will be an introduction to meet your Region 8 Governor, Dr. Oceana Francis, who is serving as governor during 2024-2027. With her second visit to Alaska as Region 8 Governor, this talk will be an in-depth look at some of her work at the University of Hawai'i at Manoa. Coastal roads in Maui County face increasing risks from sea level rise, storm surge, erosion, and tsunamis. She presents the Coastal Road Erosion Susceptibility Index Version 2 (CRESIv2) to assess and rank vulnerable road segments using 13 physical, oceanic, and traffic variables. An Ocean Hazards Classification Scheme (OHCS) is also developed to evaluate future climate-related impacts. A total of 39 road segments were analyzed, with adaptation strategies informed by stakeholder input and benefit-cost analyses. Recommended actions include road relocation, hard and soft shoreline protection, elevation, coral reef restoration, and monitoring. Sea level rise and tsunamis were identified as the most critical hazards. This study provides a science-based framework to prioritize limited funding, enhance infrastructure resilience, and support long-term coastal roadway planning for Maui County and the State of Hawai'i..

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Job Postings

# Announcements and More!

## ASCE Board Openings - Secretary and Treasurer

We are currently looking to fill two vacant officer positions on the board. The secretary will help with coordinating presentations, putting together newsletters, and supporting the local ASCE branch. The treasurer helps to manage and organize the finances for the branch. The time commitment is only a few hours per month, and it's a great way to get involved with the local engineering community and get additional pdh's.

If you are potentially interested (or want more information) please contact Zachery Miller (zachery.miller@respec.com) or Jimmy Spriggs (jimmy.spriggs@prohns.com)

## Current Job Postings

AEL&P - Summer Student Worker	DOWL - Transportation Designer
AEL&P - Brushing Crew	DOWL - Transportation Design Engineer 3
PND - Summer Civil Engineering Intern	DOWL - Field Project Representative 3
PND - Civil Design Engineer	DOWL - Project Archaeologist 1
PND - Civil Engineer (EIT)	DOWL - Aviation Project Engineer (Mid to Senior Level)
PND - Structural Design Engineer	ProHNS - Entry Level Civil/Environmental Engineer
Respec - Civil Water/Wastewater Engineer	ProHNS - Materials Testing Technician
Respec - Civil Water/Wastewater Engineer	

## Local Branch Officers:

<b>2025-2026 ALASKA CAPITAL ENGINEERS OFFICERS</b>	
<b>ASCE</b> President – Zach Miller, EIT Vice President – Jimmy Spriggs, EIT Treasurer – Your Name Here! Secretary – Your Name Here! Past President – Eva Melancon, PE Emeritus – Matthew McGuan, PE	<b>ASPE - Alaska Society Contacts</b> Past President – Chris Miller, PE President – Craig Blesdoe, PE President Elect – Vacant Secretary - Leora Houtary, PE Treasurer – Iain McPherson, PE NSPE House of Delegates - Brad Fristoe, PE Anchorage Chapter Director – Craig Blesdoe, PE Fairbanks Chapter Director - Frank Wuttig, PE Juneau Chapter Director - Darrell Wetherall, PE
<b>Special Committees</b> School Outreach/STEM Coordinator - Please Volunteer Dream Big Coordinator - Please Volunteer	

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