

## ASCE & SEAHO MARCH JOINT DINNER MEETING NOTICE

**Program: Sept 28, 2018 Palu Earthquake and Tsunami and Dec. 23, 2018 Sunda Strait Tsunami**

On September 28, 2018, a magnitude 7.5 earthquake occurred north of Palu, Sulawesi Island, Indonesia. The death toll due to both earthquake and tsunami is over 2200 with more than 1000 still missing and 4500 injured. A number of multi-story reinforced concrete buildings collapsed during the earthquake, most notable was the eight-story Roa-Roa Hotel which collapsed resulting in multiple deaths. The iconic twin steel-arch cable-suspended Palu Bridge IV over the mouth of the Palu River also collapsed during the earthquake. A number of port facilities were damaged either by the earthquake or tsunami, and many ships, barges and boats were washed onshore or out to sea. The tsunami caused considerable damage to light-framed structures, though some taller engineered structures survived, protecting those who sought refuge in the upper floors. Extensive lateral spreading due to liquefaction caused by the earthquake also resulted in numerous deaths and extensive damage to residential structures in a number of inland areas. Dr. Robertson visited Palu as a representative of the Structural Engineering Extreme Event Reconnaissance (StEER) Network to survey the damage due to both the earthquake and tsunami. He will give an overview of the observations and lessons learned from this event. He will also discuss the more recent Sunda Strait tsunami generated by the eruption and flank collapse of Anak Krakatau, the "Child of Krakatoa" which occurred on December 23, 2018.

**Speaker: Dr. Ian N. Robertson, Ph.D., S.E.**

Dr. Robertson is the Arthur N.L. Chiu Distinguished Professor of Structural Engineering in the Department of Civil and Environmental Engineering at the University of Hawaii at Manoa. He worked with the Applied Technology Council to develop both first and second editions of FEMA P-646, Guidelines for Design of Structures for Vertical Evacuation from Tsunamis, and recently edited the third edition. He serves as vice-chair of the ASCE 7 Tsunami Loads and Effects subcommittee that drafted the new ASCE 7 tsunami design provisions. In 2017, Dr. Robertson was named to ENR's "Top 25 Newsmakers in 2016" for his "crucial contributions to the campaign that resulted in the 2016 adoption of the world's first standards for tsunami-resistant design".

**Date:** Thursday, March 14, 2019  
**Location:** HASR Bistro (31 N. Pauahi St.)  
**Time:** 5:30 p.m. Social Time  
 6:30 p.m. Dinner  
 7:00 p.m. Program  
**Menu:** Multi-entrée dinner  
**Cost:** \$35 for ASCE Hawaii or SEAHO Members  
 \$40 for Non-Members and Guests  
 \$20 for ASCE Student Chapter members

| March 2019 |    |    |    |    |    |    |
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| 3          | 4  | 5  | 6  | 7  | 8  | 9  |
| 10         | 11 | 12 | 13 | 14 | 15 | 16 |
| 17         | 18 | 19 | 20 | 21 | 22 | 23 |
| 24         | 25 | 26 | 27 | 28 | 29 | 30 |
| 31         |    |    |    |    |    |    |

**Reservations:** By email/telephone, please RSVP by Monday, March 4, 2019 to:

**Cliff Lum**, ASCE Hawaii Section Treasurer

Address: HDR  
 1132 Bishop Street, Suite 1200  
 Honolulu, Hawaii 96813

Phone: (808) 697-6250

Email: [clum@ascehawaii.org](mailto:clum@ascehawaii.org)

**If you do not receive a confirmation on your RSVP, please contact Cliff**

Checks shall be made payable to "ASCE Hawaii Section" and mailed to Cliff at the address above.

**\*\*No shows will be billed\*\***

March 14, 2019 ASCE Dinner Meeting Reservation Form (please call/e-mail by 03/4/2019)

Company: \_\_\_\_\_

Total Enclosed: \$ \_\_\_\_\_

| <u>Name</u> | <u>Member?</u> | <u>Name</u> | <u>Member?</u> |
|-------------|----------------|-------------|----------------|
| _____       | Yes/No         | _____       | Yes/No         |
| _____       | Yes/No         | _____       | Yes/No         |
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| _____       | Yes/No         | _____       | Yes/No         |