

# COPRI REVIEW

Lori S. Brownell, PE, D.NE, M.ASCE

COPRI President



WEDA Gulf Coast Chapter Meeting - November 2019



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# Presentation Overview

- **ASCE**
- **COPRI**
  - Organization
  - Continuing Education
  - Publications
  - Conferences
  - Awards
- **External Affiliations**



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ASCE

## **Our Purpose**

Help you matter more and enable you to make a bigger difference.

## **Our Vision**

Civil engineers are global leaders, building a better quality of life.

## **Our Mission**

Deliver value to our members, advance civil engineering, and protect the public health, safety, and welfare.



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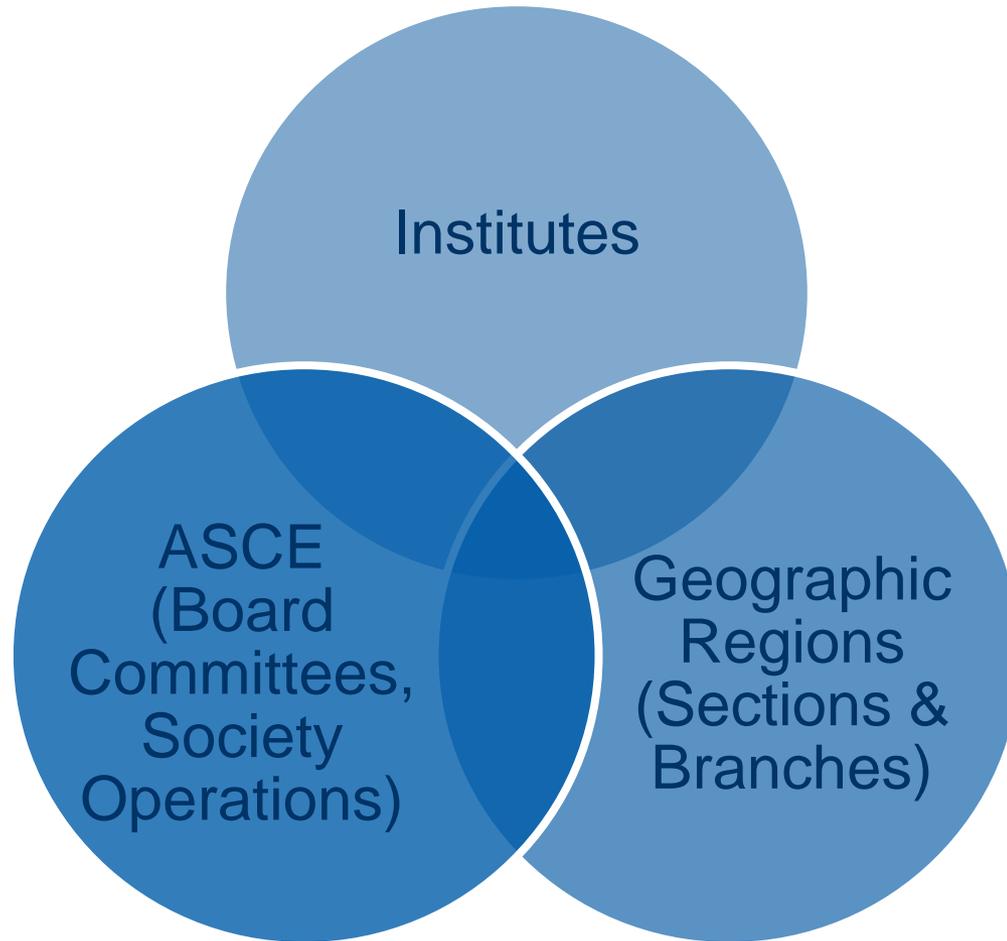
## Founded in 1852, ASCE is now –

- more than 150,000 members
- in 177 countries
- 76 Sections, 160 Branches, 302 Student Chapters, and 130 Younger Member Groups
- 9 specialty Institutes



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# ASCE





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# Key Concepts of ASCE Institutes

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Semi-autonomous entities

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Each institute is unique

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Formed bottom-up, not top-down

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Collaborative environment,  
beyond ASCE

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Full participation, not just  
civil engineers

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Flexible membership  
options

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## ARCHITECTURAL ENGINEERING



Architectural engineering is the integrated, multidisciplinary approach to planning, design, construction and operation of buildings.

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The knowledge and practice of civil engineering and other disciplines in the coastal, ocean, port, waterways, and riverine environments.

## CONSTRUCTION



Construction engineering is a professional discipline that combines design skills with supervision and management of construction projects.

## ENGINEERING MECHANICS



Applying principles of mathematics, science and mechanics to solve engineering problems such as those encountered in civil, mechanical and aeronautical and aerospace engineering.

## ENVIRONMENTAL & WATER RESOURCES



The integration of public policy and technical expertise into the planning, design, construction, operation, management, and regulation of environmentally sound and sustainable infrastructure.

## GEOTECHNICAL ENGINEERING



Applying rock and soil mechanics to investigate subsurface conditions, and design and build foundations, earthworks, and sub-grades.

## STRUCTURAL ENGINEERING



Structural engineers design buildings, bridges, and non-building structures that protect the health and welfare of the public.

## TRANSPORTATION & DEVELOPMENT



Advancing knowledge and practice in all aspects of transportation engineering, urban planning and development.

## UTILITY ENGINEERING AND SURVEYING



Civil engineering and surveying professionals working within the utility and pipelines engineering and the surveying communities working collectively to improve our profession.



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## COPRI Mission

COPRI will serve as a **multidisciplinary** and **international leader** in improving knowledge, education, development and the practice of civil engineering and other disciplines in the **sustainable management** of coastal, ocean, port, waterways, riverine and wetlands resources for the benefit of all society.

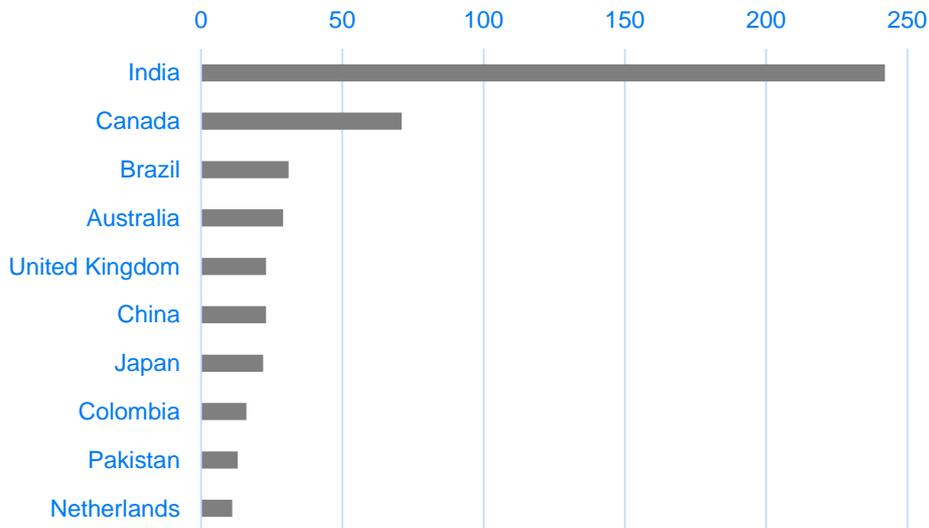


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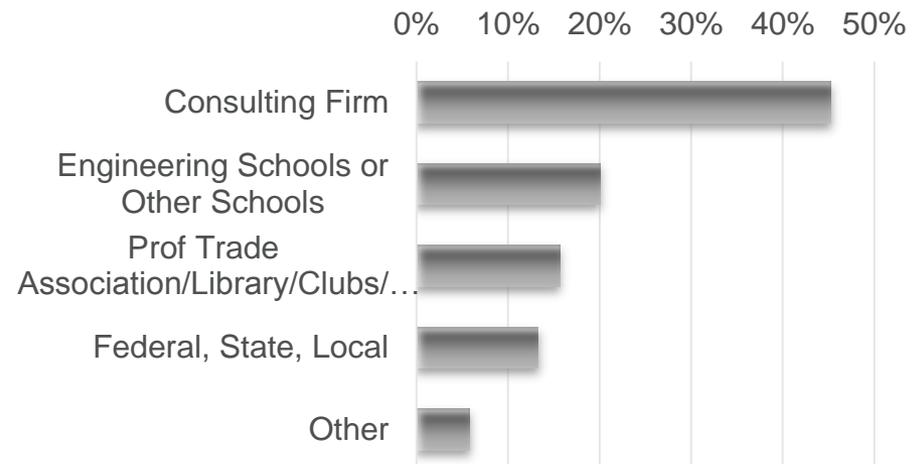
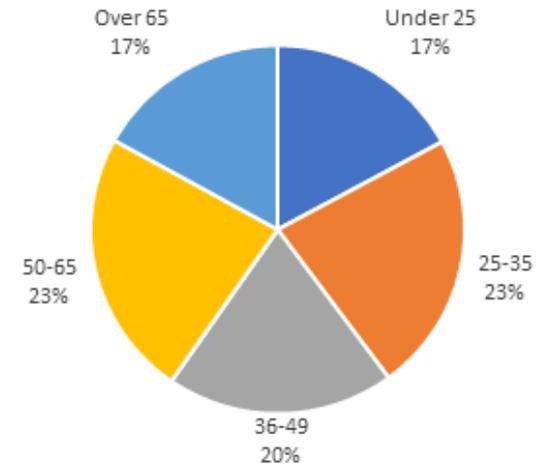
# COPRI Membership

## ■ Current Membership

- 4335 Members
- 69 COPRI-only Members
- 692 Student Members
- 16% International Membership from 77 Countries
  - Top 10 Countries



Age Distribution





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# COPRI Governing Board



## President

Lori Brownell, P.E., D.NE,  
M.ASCE  
Port Houston  
Houston, TX



## Vice President

Steve Balint, P.E., D.OE,  
F.ASCE  
Balint Consulting LLC  
Houston, TX



## Past President

Imee Osantowski,  
P.E., M.ASCE  
Port of Oakland  
(Retired)



## Governor

Tori Johnson  
Ph.D., EIT,  
A.M.ASCE  
U.S. Naval Academy  
Annapolis, MD



## ASCE Representative

Ed Schmeltz, P.E., D.CE,  
D.NE, D.OE, D.PE,  
Dist.M.ASCE  
EJS Consulting  
Riverside, CT



## Secretary

Murat Utku, Ph.D.,  
P.E., D.CE, F.ASCE  
OBG  
Randolph, NJ



## Treasurer

Cathy Dunn, P.E., D.NE,  
D.PE, M.ASCE  
Port of New Orleans, Retired  
Metairie, LA



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# COPRI Organization

- Annual Meeting In-Person Meeting of COPRI Leadership Community
- Monthly Teleconference Calls of COPRI Leadership Community
- Meetings of Governing Board
  - At least annually
  - Historically at 6-month intervals
  - Attempt to meet at Specialty Conferences
- COPRI Staff
  - Institute Director: Tom Chase, M.ASCE
  - Coordinator: Sean Herpolsheimer



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# COPRI Technical Committees

## ■ Ports and Harbors

- Asset Management
- Berthing Velocity
- Certificate in Port Engineering
- Design Standards for Piers & Wharves
- Dry Docks Standard
- Marina Design
- Mentoring
- Mooring Analysis
- Pavement Design
- PORTS'22
- Sea-Level Change
- Engineer-Diver Qualifications
- Protection And Rehabilitation Of Waterfront Structures
- Waterfront Facility Inspection

## ■ Oceans

- OTC Program Committees
- Marine Renewable Energy

## ■ Coastal Council

- Coastal Engineering Research Council
- Coastal Structures
- Coastal Zone Management
- Coastal and Estuarine Hydroscience

## ■ Waterways

- Alternative Financing for Water Resources Infrastructure
- Navigation



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# COPRI Chapters





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# COPRI Strategic Plan

## **GOAL 1**

Membership – Continued Long Term Growth & Increase Diversity

## **GOAL 2**

Education – Increase Relationships with Education Institutions

## **GOAL 3**

Technical Expertise – Expand and Enhance Technical Capabilities

## **GOAL 4**

COPRI Brand and Image – Promote COPRI Internationally



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# COPRI Student Participation

- COPRI committed to increasing student member participation by:
  - Encouraging engagement with committees and leadership
  - Promote transition of students to active COPRI members employed with a COPRI Organizational Member

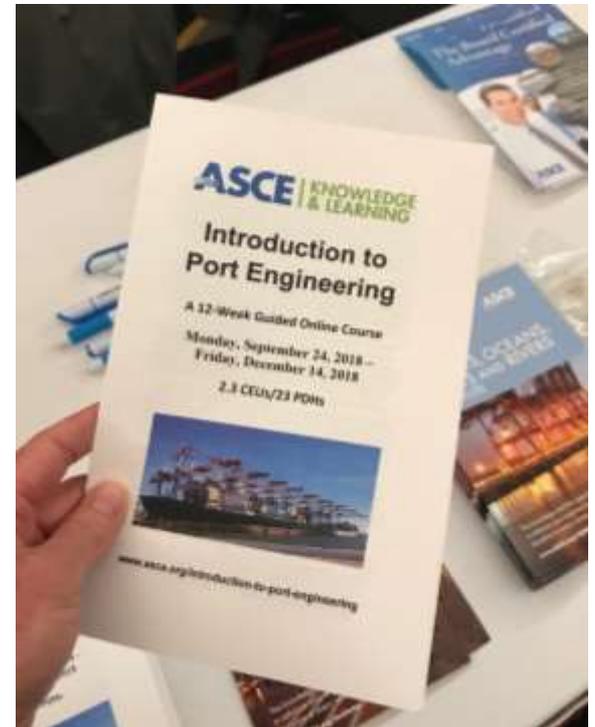




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# Continuing Education

- Port Engineering Certificate through ASCE's Guided Online Courses
  - **Introduction to Port Engineering**, Fall 2018, Fall 2019
  - **Design of Port Facilities**, Winter 2019, Winter 2020
  - **Construction of Port Facilities**, Spring 2019, Spring 2020
  - **Seismic Design of Port Facilities**, Fall 2019
  - **Geotechnical Design of Ports**, Winter 2020
  - **Operations/Maintenance**, Spring 2020





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# Continuing Education

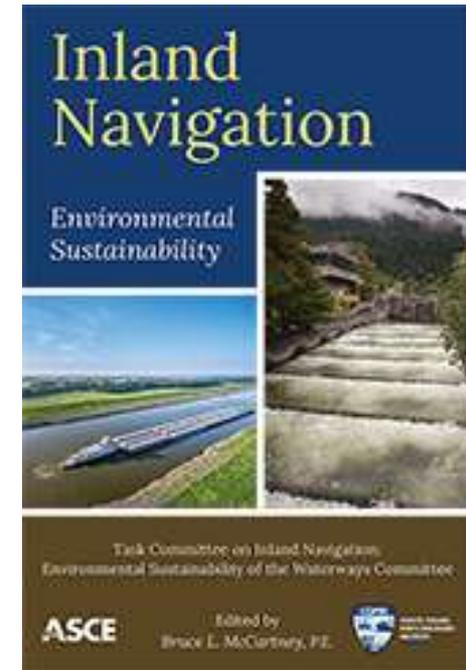
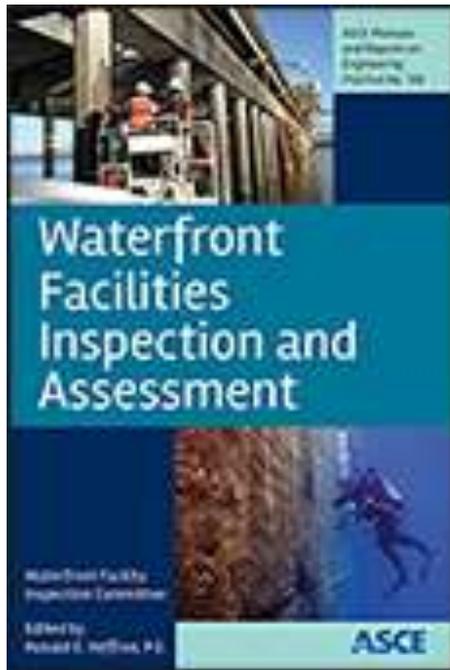
- Continuing Education also delivered as pre-conferences short-courses
- Navigation Engineering Webinar Series





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# Publications





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# Conferences



**36th International Conference on Coastal Engineering 2018**

Baltimore, Maryland | July 30-August 3, 2018



**PORTS® '19**

Pittsburgh, Pennsylvania | September 15-18, 2019



**PORTS® '22**

Honolulu, Hawaii | September 18-21, 2022





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# Offshore Technology Conference



®

CELEBRATING  
**50 YEARS**  
1969 – 2019



## OTC ASIA 2020

24 – 27 MARCH 2020 | KUALA LUMPUR CONVENTION  
CENTRE KUALA LUMPUR, MALAYSIA



SM

**OTC BRASIL 2019**  
AN EVENT ORGANIZED BY IBP AND OTC

29 - 31 OCTOBER 2019

SulAmérica Convention Center, Rio de Janeiro, Brazil



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# Awards

- COPRI offers professional achievement awards each year

## ASCE/COPRI Awards:

John G. Moffatt – Frank E. Nichol Harbor  
and Coastal Engineering Award  
International Coastal Engineering Award  
Hans Albert Einstein Award (with EWRI)  
Orville T. Magoon Sustainable Coasts



## COPRI Awards:

- Project Excellence Award (Large and Small Project)
- OTC Hall of Fame Awards
- Kenneth M. Childs, Jr. Practitioner's Award

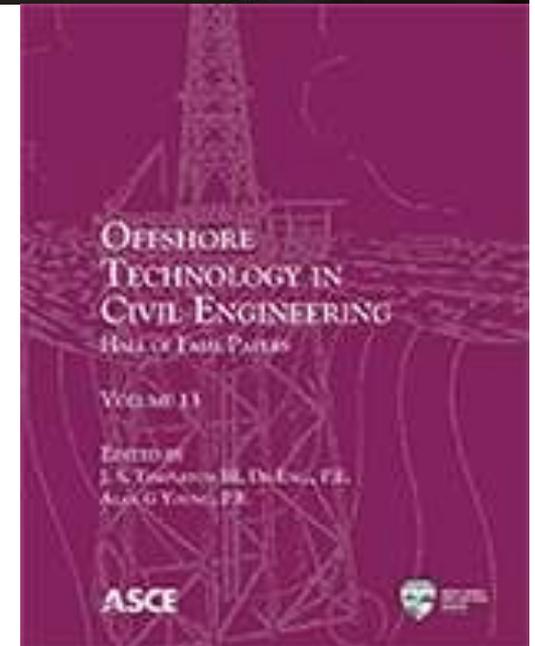




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# Awards

- **ASCE OTC Hall of Fame Awards**
  - The 2019 ASCE OTC Hall of Fame Gala was held on Tuesday, May 7, 2019, during the Offshore Technology Conference in Houston, Texas.





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# External Affiliations

- Academy of Coastal, Ocean, Port and Navigation Engineers
- American Shore & Beach Preservation Association
- The International Association of Hydraulic Engineering and Research (IAHR)
- The International Navigation Association (PIANC)





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## Questions & Discussion?

[www.asce.org/copri](http://www.asce.org/copri)

