

## **A Brief History of the Coastal Zone Foundation<sup>1</sup>**

The first meeting of the Coastal Zone Foundation (CZF) was held on Oct. 3, 1984. The foundation's objectives included receiving proposals for important topics in coastal zone management and coastal engineering, including such projects as land use studies, beach attendance reports, reconnaissance and recording of waves and storm surge. These projects would be devoted to collecting information that would generally be made available for educational purposes. Additionally, the bylaws were broad enough to allow grants for coastal related purposes.

The primary purpose of the CZF was the advancement and application of scientific and related technical and professional knowledge necessary for management, protection and use of coastal and ocean resources. More specifically, these were accomplished by conceiving and carrying out coastal-oriented conferences and meetings such as the Coastal Zone symposium series.

The face-to-face exchanges inherent in these events, together with comprehensive proceedings, proved highly effective in widely disseminating coastal and ocean management information and practice in the early growth of this topic. CZF played a key role in bringing together volunteer and sponsoring organizations to plan and operate each event. Its contributions to the coastal zone can be recognized in the depth and strength of coastal zone management programs in most coastal states and in many foreign national programs.

### **Foundation Members**

The original CZF Board members were Orville Magoon, President and Chair; Tom Tobin, Vice Chair, and Hugh Converse, Secretary. All three had experience working together with organizing conferences prior to the events organized through or by the Foundation. Magoon and Converse were both coastal engineers with the U.S. Army Corps of Engineers; Tobin was a geotechnical engineer with the California Coastal Commission and then with the Seismic Safety Commission.

In 1993 Billy Edge was invited to become a member of the CZF Board. He brought another vision to the board from serving with the ICCE conferences and the Coastal Engineering Research Council, and had experience with the Waves Conferences and the Coastal Zone conferences. An additional Board member, Dr. Lesley Ewing, was added in February 2002. Dr. Ewing is a member of California Coastal Commission with extensive experience in coastal management along the United States Coastlines and especially in California.

### **Coastal Zone Activities**

For nearly 20 years CZF conceived and chaired several major international specialty conferences on coastal zone management and coastal processes. For Coastal Management conferences, Magoon and the other directors wanted to have a truly interdisciplinary conference, inviting

<sup>1</sup> A California Non-Profit "Public Benefit" Corporation

scientists, engineers, policy makers, and educators, etc., to include everyone engaged in coastal and ocean management.

Prior to the foundation's formation, CZF board members provided leadership for the first three Coastal Zone conferences:

- *Coastal Zone '78* in San Francisco, CA
- *Coastal Zone '80* in Hollywood, FL
- *Coastal Zone '83* in San Diego, CA

These were organized via the Coastal Zone Management Committee with the support of ASCE. Each conference proceedings was edited by Magoon and other members of the Foundation.

The first CZF project undertaken was to organize the international conference *Coastal Zone 85* and to secure funding from state and federal agencies for this conference. The demand continued to share more knowledge from different federal, state, NGOs and other countries, which lead to sharing more coastal zone management information and research studies at the following conferences which were well attended with a growing number of countries participating.

- *Coastal Zone '85* in Baltimore, MD (The Fourth Symposium on Coastal and Ocean Management)
- *Coastal Zone '87* in Seattle, WA (A Spotlight on Solutions with over 2,000 attendees) • *Coastal Zone '89* in Charleston, SC (The Sixth Symposium on Coastal and Ocean Management)
- *Coastal Zone '91* in Long Beach, CA
- *Coastal Zone '93* in New Orleans, LA (The Eighth Symposium on Coastal and Ocean Management with over 60 countries represented)

As part of the 1989, 1991, and 1993 conferences, CFZ also prepared a series of publications:

- *Coastlines of the World* that included Brazil, Italy and Barrier Islands (1989); • *California, Japan, the Caribbean, Wetlands, and Biological and Physical Aspects of Dredging* (1991);
- *Lagoons and Enclosed Bays of the World,*
- *Coastlines of Mexico, West and Central Africa, Japan - Vol. II,*
- *Deltas of the World,*
- *Coastal Engineering Issues in Coastal Zone Management and Beach Nourishment, • Engineering and Management Considerations* (1993).

Members of the CZF Board also represented the Foundation at the following conferences although they were not all sponsored by the Foundation:

- *Sand Rights '99, Bringing Back the Beaches,* Ventura CA
- *California and the World Oceans '97,* San Diego CA, with proceedings published by the Foundation and registration for the event
- *Carbonate Beaches 2000; The First International Symposium on Carbonate Sand*

- *Solutions to Coastal Disasters, 2002*, San Diego CA
- *California and the World Oceans '02*, Santa Barbara, CA, with proceedings published by the Foundation and registration for the event
- *Solutions to Coastal Disasters 2005*, Charleston, SC
- *Solutions to Coastal Disasters, 2008*, Oahu, HI
- *Solutions to Coastal Disasters, 2011*, Anchorage, AK
- *Coastal Structures and Solutions to Coastal Disasters: Resilient Coastal Communities 2015*, Boston, MA

## **Ocean WAVES**

Several CZF Directors were engaged in developing the first Waves conference, that was sponsored and managed by ASCE. The following four were managed by the CZF Directors with substantial support from ASCE and other organizations.

- *1st International Symposium on Ocean Wave Measurement and Analysis, WAVES '75*, New Orleans, 1975
- *2nd International Symposium on Ocean Wave Measurement and Analysis* in honor of Professor Robert L. Wiegel, *WAVES '95*, Virginia Beach, 1997
- *3rd International Symposium on Ocean Wave Measurement and Analysis, WAVES '97*, Virginia Beach, 1997
- *4th International Symposium on Ocean Wave Measurement and Analysis, WAVES '01*, San Francisco, 2001
- *5th International Symposium on Ocean Wave Measurement and Analysis, WAVES '05*, Madrid, Spain, 2005

## **Additional activities**

In addition to conceiving and chairing the major international specialty conferences on coastal zone management, ocean waves and coastal processes, the Foundation was quite active in organizing professional symposia and workshops on several relevant coastal topics.

- It was a conference coordinator of the Fifth Regional Symposium, *PACON 2001, Environmental Technologies for Sustainable Maritime Development* which was held in San Francisco, CA, in July 2001.
- Director Magoon chaired a one-day symposium on *Urban Shorelines* in conjunction with the Northeast Shore & Beach Preservation Association, *Revitalization of Urban Shorelines* Conference, held at Stevens Institute of Technology, Hoboken, NJ, October 2001.
- Magoon also chaired a session on Urban Beaches at the *CZ 01, Hands Across America, Linking Land, Lake and Sea*, held July 2001, Cleveland OH.
- The Foundation also participated on the organizing committee and production of

*SOLUTIONS to Coastal Disasters*, with the first of four conferences held February 2002 in San Diego, CA.

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In 2000, the Foundation also published the proceedings of the *Breakwater '99* conference held in Madison, WI, using World Scientific. In 2002, the Foundation organized printing for the ICCE conference proceedings with World Scientific publishing company. This relationship lasted until 2006, when the proceedings reverted to ASCE.



*The Coastal Zone Foundation was invited by the Port and Airport Research Institute to present work of the Foundation in Tokyo, Japan. (Front row, from left: CZF directors Lesley Ewing and Orville Magoon, Institution President Owada Makoto, and CZF director Billy Edge; Tom Tobin and Hugh Converse were not able to attend.)*

### **Coastal Zone Foundation Awards**

- In 2004 the Coastal Zone Foundation Award was presented to Dr. Susan Rees, a biologist with the Corps of Engineers Mobile District in recognition of her work in directing a Regional Sand Management Study for the Corps. Also in 2004 the Foundation also authorized an award for her professional achievements in conserving and protecting nature and value of America's coast. The award was presented at the meeting of the California Coastal Commission meeting at Marin County in May.
- The 2005 award was given to Margaret Davidson in recognition of her broad coastal interests and respected organizational abilities in pursuit of those concerns.
- The 2006 award was given to Biliana Cincin-Sain for achievement and excellence in coastal zone management-related activities. The award also included a \$4,000 honorarium and was presented at the COPRI *Solutions to Coastal Disasters* conference.
- The 2007 award was given to Professor Erdal Ozhan, organizer of the recent Medcoast conference in Kududasi,

Turkey.

- The 2009 award was presented to Jeff Williams in Newfoundland.
- The 2010 award was presented to Peter Douglas, former Director of the California Coastal Commission.

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In 2015 and by unanimous consent the Board passed the attached resolution to endow an ASCE award entitled the *Orville T. Magoon Coastal Award*. This award is given annually to a recipient nominated by the Coast, Ocean Port and River Institute of the American Society of Civil Engineers and is formally named the *Orville T. Magoon Coastal Sustainability Award*. The recipient also receives a cash award with the trophy. The recipients of this award have been: • 2021, Julie D. Rosati, Ph.D., P.E., D.CE, M.ASCE

- 2020, Lesley C. Ewing, Ph.D., P.E., D.CE, M.ASCE
- 2019, Louise A. Wallendorf, P.E., M.ASCE
- 2016, Elena Drei-Horgan, Ph.D., A.M.ASCE
- 2015, Christopher P. Jones, P.E., M.ASCE
- 2014, Joannes J. A. Westerink, Ph.D., M.ASCE

In 2016, the Coastal Zone Foundation approved a motion to provide a grant for the Earthquake Engineering Research Institute. This award is to support funding for school tsunami-hazard mitigation on the west coast.

### **Changing direction for CZF**

The next phase of CZF history originated from a 2013 meeting in South Padre Island between Kate and Ken Gooderham and Aram Terchunian. There, they concluded there was a need to provide a nationally recognized certification program for coastal professionals. The American Shore and Beach Preservation Association (ASBPA) conferences provided the natural forum where coastal professionals from a multitude of disciplines could meet and learn together. These conferences were seen as an opportunity to augment through online and in-person learning.

In January 2014 the ASBPA Executive Committee authorized a working group to investigate how a voluntary Certified Coastal Practitioner (CCP) program could be developed and executed. The working group (consisting of the Gooderhams and Terchunian) developed the concept of a voluntary, multi-disciplinary certification program incorporating fundamental coastal disciplines including engineering, geology, biology/ecology, communications, coastal zone management, government operations, planning and land use, and project management. These courses would be taught by recognized experts both in-person (at conferences) and online. Exams would be required in each of the discipline areas, as well as acknowledging a professional code of ethics and requiring continuing education.

In October 2014, ASBPA authorized a seed budget of \$5,000 for Gooderham and Associates to develop and implement a Certified Coastal Practitioner (CCP) credentialing program.

Serendipitously Aram and Kate were discussing this idea with CZF directors Lesley Ewing and Billy Edge. All agreed that a CCP credentialing program was both necessary and in harmony with the stated mission of CZF. Negotiations between Ewing, Edge, Converse and Magoon and the ASBPA Executive Committee resulted in the election of a new Board of CZF Directors.

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On July 1, 2015, the CZF elected a new Board of Directors consisting of Lee Weishar - President, Michael Walther - Vice President, Aram Terchunian - Secretary-Treasurer, Gordon Thomson - Director, and Gary Jones - Director. This Board set about updating and revising the CZF by-laws, developing a Memorandum of Understanding (MOU) authorizing CZF to present the CCP modules at ASBPA conferences, and completing the 10 required CCP modules needed for credentialing. Since that time, Kate Gooderham and Erin Hague were elected to the board.

In the fall of 2015, CZF began offering the short course modules at the 2015 ASBPA National Coastal Conference in New Orleans. Since that time, CZF has offered one or more short courses at the ASBPA National Coastal Conference and the Coastal Summit conferences. CZF began recording the sessions to allow people to take the courses online. This effort culminated in the spring of 2020. Opening the courses to people online provided flexibility to prospective Certified Coastal Practitioners™ (CCPs), which dramatically increased the number of people taking the courses.

CZF developed the 10 short course modules to allow people to receive professional development hours for each course. In addition, once someone completed 10 modules, they were eligible to request designation as a CCP. This request includes completing the Code of Ethics and Professional Practice.

Between November 2018 and August 2021, there are 13 Certified Coastal Practitioners. The majority of the certifications have taken place since the program became available online. A CCP must renew their certificate every five years for it to remain valid. The objective of renewal is to encourage certificate holders to remain active in and contribute to the coastal field, thereby ensuring that the certificate itself retains meaning and purpose.

Current CCPs are:

- Natalie Bell – May 2021
- Kristina Boburka – October 2020
- Derek Brockbank – November 2018
- Mijanur R. Chowdhury – September 2021
- Kyle Clark – July 2021
- Amine Dahmani – April 2021
- Patrick Friend – November 2020
- Brandon Hill – June 2020
- Harrison McNeil – January 2021

- Michaela Miller – June 2021
- Eric Rosina – August 2020
- Matthew Stovall – October 2020
- Reuben Trevino – November 2018
- Steven Tucker – May 2021
- Christa van IJzendoorn – October 2021

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Check [coastalzonefoundation.org](http://coastalzonefoundation.org) for the most recent CCP list.

### **CCP Course Information**

The Certified Coastal Practitioner™ (CCP) program provides participants with multidisciplinary instruction on comprehensive coastal management, defines the body of knowledge, which reflects best practices for coastal professionals, and complements existing coastal licenses and educational programs. Earning the CCP designation distinguishes the coastal professional as having a broad knowledge base and an understanding of the interrelationships among the different elements of modern coastal practice.

Below you will find information on each course currently offered in the Certified Coastal Practitioner™ program:

#### **Coastal Engineering**

An introductory course covering the fundamental principles of coastal engineering. Topics include basic wave theory (wave generation, analysis, refraction, diffraction shoaling and breaking), wave prediction techniques, tides, coastal circulations and sediment transport. The latter portion of the course is devoted to the application of these basic principles to coastal structure and shore protection design.

**Initial Instructors:** Tom Harrington, Jon Miller

**Initially Offered:** 2016 ASBPA National Coastal Conference

#### **Coastal Geology**

An introductory course presenting a geological framework, distinguishing among types of coasts, the forces sculpting the land, and the sediments accumulating in distinct forms. This module touches on special disciplines of coastal geomorphology, sedimentology and coastal processes.

**Initial Instructors:** Tiffany Roberts Briggs, Tim Kana

**Initially Offered:** 2016 Coastal Summit

#### **Coastal Resiliency**

An introductory course presents the concepts of coastal resiliency and how to increase the resiliency of your shoreline. Participants will be given an understanding of coastal resilience concepts, methods to increase resiliency, and tools available to estimate and measure coastal

resilience. The basis for the module is the U.S. Army Corps of Engineers' research on improving coastal resiliency.

**Initial Instructors:** Julie Rosati, Cate Fox-Lent, Katherine Touzinsky, Emily Vixton

**Initially Offered:** 2015 ASBPA National Coastal Conference

## Coastal Ecology/Biology

An introductory course that presents the basic concepts of coastal ecology/biology. The course provides up-to-date science-based and skill-building opportunities to professionals whose work is affected by coastal resources. The spatial zone of interest is a relatively narrow portion of the

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continental shelf/coastal plain where land and sea meet. Basic concepts encompass major biological constituents that make up the dynamic and diverse set of ecosystems and species including the open ocean, barrier islands, coastal marsh, estuarine resources and threatened and endangered species.

**Initial Instructors:** Bianca Reo and Elsemarie deVries

**Initially Offered:** 2017 ASBPA National Coastal Conference

## Planning and Land Use

An introductory course that presents the basic concepts of planning and land use. The course highlights how activities in adjacent upland can affect the coastal zone, via land use, planning, jurisdictions, regulations, habitat impacts, property rights and more. This section also looks at the upland aspects of coastal resilience and disaster planning and recovery, as well as resolving conflicts between political boundaries and littoral zones and addressing the impacts and issues surrounding sea level change.

**Initial Instructor:** Ken Gooderham

**Initially Offered:** 2018 online

## Communications

An introductory course that presents the basic concepts of effective communications. This course provides participants an understanding of communication goals, stakeholders and audiences, delivery and tools. It also provides hands-on examples of how to effectively communicate with a variety of media, peers, and government agencies. A highly interactive session, this course features problem-solving drawing on participants' own experiences.

**Initial instructors:** Kate Gooderham and Francesca Dolan

**Initially offered:** 2017 ASBPA Coastal Summit

## Government Operations

An introductory course that presents basic concepts in government operations. The course reviews the structure of federal and state government and how they work, including how authorities are granted, the federal budget process, and basic regulatory programs. The local and federal government structure and the budgeting process will be discussed. Additionally, the module presents the best way to effectively communicate your message to elected officials so

you can advance your project through the bureaucratic maze.

**Initial Instructor:** Aram Terchunian

**Initially Offered:** 2018 ASBPA National Coastal Conference

## Project Management

An introductory course that presents basic concepts of project management. The course discusses the tools that a project manager needs to effectively perform his/her job. This module brings a greater appreciation for the diverse expertise in a wide variety of areas required to make up an effective project team. This module also identifies ways to more efficiently coordinate activities amongst the various disciplines to facilitate a well-integrated effort that expedites completion of what are often large and complicated projects.

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**Initial Instructors;** Peter Seidle, Dan Adams, Cesar Espinosa

**Initially Offered:** 2018 ASBPA Coastal Summit

## Government Affairs

This introductory course focuses on the operational side of governments: getting bills (both authorizations and appropriations) through Congress, understanding and working with the federal agencies most engaged in the coast (as well as an explanation of their various roles in coastal management), and the integral involvement of state and local governments in coastal management and engaging with the federal government.

**Initial Instructor:** Derek Brockbank

**Initially Offered:** 2017 ASBPA National Coastal Conference

## Coastal Zone Management and Coastal Regulations

An introductory course that presents the concepts of coastal zone management and coastal regulation. Understanding the reason for coastal zone management and how to ensure that your project meets the guidelines. The module also discusses the interaction between the coastal zone management regulations and the coastal state and federal regulations. These concepts are present through a review of a sample project that takes the participant through coastal zone management and regulatory process.

**Initial Instructors:** Aram Terchunian and Todd Roessler

**Initially Offered:** 2015 ASBPA National Coastal Conference

## Water Quality

An introductory course where a review of the Clean Water Act of 1972 will be provided, along with discussions of surface water quality standards and compliance applicable to the Atlantic, Gulf and Pacific coastal zones. Case studies will review basin management tools, primary contributors to water quality degradation, Best Management Practices (BMPs) for treatment, monitoring strategies, bioindicators, and state-level efforts at becoming compliant with the Coastal Zone Act. These topics will be discussed in three regional case studies: 1) Southern California Marina del Rey Toxic Total Maximum Daily Load (TMDL); 2) Southeast Florida Indian

River Lagoon Basin Management Nutrient Criteria; and 3) Mississippi Gulf Coast Monitoring and Management of Non-Point Sources.

**Initial Instructors:** Erin Hague, James (Sam) Stribling, Shelly Anghera

**Initially Offered:** 2020 ASBPA National Coastal Conference (online)