



Celebrating Marc J. Hershman

Professor of Marine Affairs

University of Washington

October 24, 1942 – February 17, 2008

The Coastal Society has joined the ocean and coastal community in mourning the passing of Marc J. Hershman in February of 2008. At TCS 21, we also celebrate Marc's life and our memories of him.

A charter member of TCS, the President from 1981–1982, and honored with the 2002 TCS Outstanding Service Award and the 2004 TCS Distinguished Service Award, Marc's professional contributions left an indelible impression on TCS. Even more importantly, Marc was a member of the TCS family, sharing his passion for the oceans and progressive coastal management, and assuming the roles of visionary, teacher, mentor and friend with vigor and caring.

His professional contributions to the field of marine policy and coastal management had an enormously positive influence on students, scholars, and all those who worked on U.S. and international coastal and ocean governance. At the University of Washington, Marc served as the Director and as a Professor in the School of Marine Affairs, and as an adjunct Professor in the School of Law; he founded the *Coastal Management Journal* and served as its editor-in-chief for 36 years; he was a co-founder of the Marine Affairs and Policy Association, was an active member of the Ocean Governance Study Group, and was the founder and a Board member of the Odyssey Maritime Discovery Center on Seattle's central waterfront. Marc also served on many boards, including the National Advisory Board of the National Ocean Economics Program, and was a Commissioner on the U.S. Commission on Ocean Policy. But perhaps his greatest contributions were to his students, who remember his abundant supply of



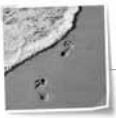
Photo: Washington Sea Grant

inspiration, strength and positive attitude.

We believe Marc would have enjoyed TCS 21, especially the Plenary focused on ports and the "Waterfronts" track, as he was fascinated by ports and working waterfronts. As a researcher, he sought to understand how they shaped coastal cities, how they responded to changes in shipping and cargo-handling technologies, and, ultimately, how ports could be persuaded to become full partners in developing coastal management programs.

While we dearly miss our friend and colleague, we are pleased to honor him at TCS 21 – our opportunity to celebrate his accomplishments, his life, and the enduring and indelible ways that he touched our lives through his spirit, guidance and humanity. We dedicate the TCS 21 Proceedings and Final Program to Marc, and hereby announce the naming of a keynote lecture after Marc for all future TCS conferences. This year, Geraldine Knatz, Executive Director of the Port of Los Angeles, is the first "Marc J. Hershman Keynote Speaker." Also, Taylor and Francis, publisher of the *Coastal Management Journal*, has contributed two student travel scholarships in Marc's name. This year's recipients are Tiffany Smythe from the University of Rhode Island and Diana Pietri from the University of Washington. We look forward to remembering Marc through these tributes and in many other ways.

Finally, the University of Washington School of Marine Affairs has established a memorial endowment that will provide student scholarships in Marc's name. Contributions can be made to the "Marc J. Hershman Endowment for Marine Affairs" online at sma.washington.edu or mailed to the School of Marine Affairs, UW, 3707 Brooklyn Ave., N.E., Seattle, WA, 98105.



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The Coastal Society's 21st International Conference (TCS 21)

Welcome to TCS 21! We are proud to have been chosen to help in making TCS 21 happen. On behalf of our all-volunteer Planning Committee, thank you for attending.

Since we last met in 2006, our playing field has changed a bit, emphasizing the need for improved coastal management. In the U.S., the Joint Ocean Commission Initiative graded the nation's collective progress toward implementing recommendations of the two ocean commissions as a C, up from a C-. We can do better. New efforts like the West Coast Governors' Agreement on Ocean Health show how we need to be thinking past our jurisdictional borders toward ecosystem-based approaches. Worldwide, our vulnerability to climate change is becoming more pronounced, as is the global outcry, as seen in the recent encouraging United Nations Bangkok Climate Change Talks. Overall, budget cuts and level funding for ocean and coastal programs have made all of our jobs more difficult, even as the need to look at our "footprints" on both natural resources and human communities becomes more pressing.

Despite these challenges, TCS 21 offers an opportunity to continue the dialogue and share lessons learned between our individual states and countries. We're also very honored to announce that this conference is dedicated to the late Marc Hershman, a founding member of The Coastal Society and a leader in the field of coastal management. We have also named a keynote speaker dedication in his name.

The Theme of the Conference

Coastal Footprints: Minimizing Human Impacts, Maximizing Stewardship.

TCS 21 will focus on innovative solutions to coastal problems through seven conference tracks described in this Program. This week, we're unveiling a new track, *Integrating Social Equity into Coastal Management*, where we'll be exploring connections between economic and environmental policies. Our Opening Plenary, *Green Ports: Addressing Environmental Impacts of Working Waterfronts*, highlights our conference location in an urban port city. Our Closing Plenary, *Developing Inspired Leaders:*

Secrets to Success from Renowned Coastal Professionals, paves the way for the future of coastal management. Also, TCS is proud to be taking steps to reduce our conference footprint, like partnering with Carbonfund.org to become a carbon-neutral conference and distributing reusable mugs. Please continue our efforts this week by recycling, turning off lights and carpooling back to the airport.

While You're in the Redondo Beach/Los Angeles Area, Don't Miss...

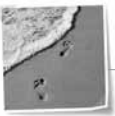
Located just south of Los Angeles and between the Channel Islands National Marine Sanctuary and Long Beach, Redondo Beach offers a myriad of activities to enjoy before or after the conference. Beach City Transit buses can transport you to sites like the Seaside Lagoon, Southern California Edison Power Generating Station, Redondo Beach Pier, the Performing Arts Center and Los Angeles Ballet and to a variety of beachside locations for sportfishing, sailing, kayaking and surfing. Be sure to visit the Aquarium of the Pacific in Long Beach with your free ticket courtesy of the Aquarium. For those of you staying through Thursday, check out the Redondo Beach Farmers Market for a local, sustainably grown lunch.

And please stay in touch...

Current TCS members are encouraged to renew their membership today, and we invite conference attendees to join as new members. Filling out your Evaluation Form helps future planning, so please take a minute to offer feedback. If you have any comments or questions about the Society, or are interested in helping with TCS 22, please contact our Executive Director anytime at coastalsoc@aol.com.

On behalf of The Coastal Society, its Board, and its members, thanks again to all who have joined us for TCS 21. Have a great week and safe travels!

Your TCS 21 Conference Co-Chairs—
Jim Fawcett, University of Southern California
Kate Killerlain Morrison, The Nature Conservancy



■ Sunday, June 29

8:00 AM – 7:00 PM Registration (Coral Foyer)

8:30 AM – 5:00 PM **Pre-Conference Workshops And Field Trips** (See pages 8-10 for detailed descriptions)

Workshop, Session I:

8:30 AM – 12:00 PM Redevelopment Planning for Coastal Communities (Marina)

Workshop, Session II:

1:30 PM – 5:00 PM Challenging Issues, Challenging Future: Take the Challenge to Be a Leader in Coastal Management (Marina)

Field Trips:

1:00 PM – 4:30 PM Bolsa Chica Ecological Reserve

8:00 AM – 7:00 PM Wrigley Institute on Santa Catalina Island

TBD Southern California Edison, Redondo Beach Power Generating Station

10:00 AM – 12:00 PM A Day on the Water – Kayaking!

10:00 AM – ?? Self-Guided Bike Tour along the Santa Monica Bay Bike Path

Anytime Visit the Aquarium of the Pacific (Free tickets available)

3:00 PM – 6:00 PM Exhibit set-up (Pacific)

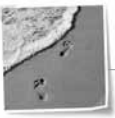
6:00 PM – 8:00 PM Welcome Reception (Harbor Terrace)





Monday, June 30

7:00 AM – 5:00 PM	Registration (Coral Foyer)
7:00 AM – 8:30 AM	Continental Breakfast and POSTER SESSION
8:30 AM – 9:00 AM	<p>Welcome Kristen M. Fletcher, TCS President (Peninsula) Mike Gin, Mayor of Redondo Beach, California Brian Baird, Assistant Secretary for Ocean and Coastal Policy, California Resources Agency</p>
9:00 AM – 12:00 PM	<p>Opening Plenary: Green Ports: Addressing Environmental Impacts of Working Waterfronts (Peninsula) Marc J. Hershman Keynote Speaker Dr. Geraldine Knatz, Executive Director, Port of Los Angeles</p> <p>Panelists Steven Goldbeck, San Francisco Bay Conservation & Development Commission Vivien Li, Executive Director, The Boston Harbor Association Heather Mantz, Director of Environmental Affairs, Virginia Port Authority Barbara Maynard, Coalition for Clean and Safe Ports, Los Angeles</p>
12:15 PM – 1:30 PM	Luncheon (Seascape Ballroom)
1:30 PM – 3:00 PM	<p>CONCURRENT SESSION I</p> <ul style="list-style-type: none"> ■ Perspectives in Management Planning: Linking Research and Policy-Making (Redondo 1) ■ Panel: Challenging Issues, Challenging Future: Take the Challenge to Be a Leader in Coastal Management (Redondo 2,3) ■ Use of Climate Change Data on Coastal Planning and Practices (Bay) ■ Panel: Sustainable Developments in Coastal Mississippi After Hurricane Katrina (Mezzanine) ■ Tools and Strategies for Preserving Working Waterfronts (Catalina) ■ International Practices Case Studies: The Pacific Rim, South America, and the Caribbean (Esplanade)
3:30 PM – 5:00 PM	<p>CONCURRENT SESSION II</p> <ul style="list-style-type: none"> ■ Panel: Envisioning the Future of Coastal and Ocean Management: Bringing Science to Management (Redondo 1) ■ Panel: Wave Energy on the Oregon Coast (Catalina) ■ Adapting to Climate Change: The Need For Strengthened Resiliency (Bay) ■ Panel: Improving Coastal Land Use Planning Through a Grant Competition (Mezzanine) ■ Social Equity for Fishing Communities: An International Perspective (Redondo 2,3) ■ International Practices Case Studies: Southeast Asia (Esplanade)
5:30 PM – 7:30 PM	RECEPTION (Harbor Terrace)



■ Tuesday, July 1

7:30 AM – 5:00 PM Registration (Coral Foyer)

7:30 AM – 8:30 AM TCS Membership Breakfast and Annual Meeting (Ocean)

7:30 AM – 8:30 AM Continental Breakfast and POSTER SESSION (Pacific)

8:30 AM – 10:00 AM CONCURRENT SESSION III

- Use of Technological Tools and Databases in Decision Making (Redondo 1)
- Beyond Ordinary Politics in Coastal Resource Management (Redondo 2,3)
- Climate Change Impacts to Coastal Communities (Bay)
- Preserving Social Equity Along the Coast Through Regulation (Esplanade)
- Panel: Marine Affairs Education in the 21st Century (Catalina)
- Law and Policy Challenges in Land Use Planning (Mezzanine)

10:30 AM – 12:00 PM CONCURRENT SESSION IV

- Panel: Developing a Regional Sea Grant Research and Information Needs Strategy for the Pacific Coast (Redondo 1)
- The Intersection of Local Knowledge and Science on the Road to Effective Management (Redondo 2,3)
- Panel: Climate Change Adaptation: The Nature Conservancy's Approach in New England (Bay)
- Panel: Starving the Pacific Coast Beaches of California, Oregon, and Washington (Mezzanine)
- Lessons from the Waterfront I: State Approaches to Preserving Working Waterfronts (Catalina)
- Panel: Exploring Coastal Management Legal Issues Through a Grant Competition (Esplanade)

12:00 PM – 1:30 PM Luncheon: "Dining Discourses" – Open Roundtables (Seascape Ballroom)

1:30 PM – 3:00 PM CONCURRENT SESSION V

- The Link Between the Multi-Disciplinary Approach and Informed Decision-Making (Redondo 1)
- Panel: Financing Coastal Protection: Tools and Ideas (Redondo 2,3)
- Panel: Evaluating Management Strategies to Mitigate Impacts of Aquatic Invasive Species (Bay)
- Lessons from the Waterfront II: State Approaches to Preserving Working Waterfronts (Catalina)
- Navigating the "New Frontier" of Alternative Energy (Esplanade)
- Land Use Challenges at the Local Level (Mezzanine)

3:30 PM – 5:00 PM CONCURRENT SESSION VI

- Panel: Humans Dimensions in Managing Coastal Quality (Redondo 1)
- Panel: Improving Fisheries Management Through a Grant Competition (Redondo 2,3)
- Panel: Area-Based Management: Examples of Comprehensive Marine Spatial Management (Bay)
- Mapping and Modeling Tools for Coastal Land Use Planning (Mezzanine)
- Environmental Health Issues for Ports and Harbors (Catalina)
- Panel: Integrated Ocean and Coastal Mapping: Providing Solutions to Coastal Challenges (Esplanade)

6:00 PM Student Networking Dinner (Hotel Lobby)

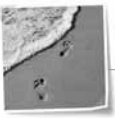
Conference professionals are invited to join student participants to get to know each other and discuss hopes, dreams & careers for the coastal field.



■ Wednesday, July 2

7:30 AM – 5:00 PM	Registration (Coral Foyer)
7:30 AM – 8:30 AM	Continental Breakfast (Pacific)
8:30 AM – 12:00 PM	<p>Closing Plenary: Developing Inspired Leaders: Secrets to Success from Renowned Coastal Professionals (Peninsula)</p> <p>Keynote Speaker Angela Park, Founder, Director, Diversity Matters: Changing the Culture of Change</p> <p>Panelists Meg Caldwell, Interim Director, Center for Ocean Solutions, Senior Lecturer and Director, Environmental and Natural Resources Law and Policy, Stanford Law School Amber Mace, Executive Director, California Ocean Science Trust Michael Orbach, Professor of Marine Affairs and Policy, Marine Laboratory, Nicholas School of the Environment and Earth Sciences, Duke University</p>
12:00 PM – 1:30 PM	Awards Luncheon (Seascape Ballroom)
1:30 PM – 3:00 PM	<p>CONCURRENT SESSION VII</p> <ul style="list-style-type: none"> ■ States Taking the Lead: Strengthening Integration of Science, Policy, and Management (Redondo 1) ■ Panel: Finding Common Ground: Approaches Used in Designing Evaluation Guidance for EPA's National Estuary Program (Redondo 2,3) ■ Thinking Ahead: Innovative Approaches to Conservation and Growth Management (Catalina) ■ Planning for Aquaculture and Agriculture in the Coastal Zone (Mezzanine) ■ Panel: Climate Change and the Law, Economics, and Policy of California Land Use Change: Coastal Management Risk and Vulnerabilities (Bay) ■ Panel: The Socio-Economics and Management of Surfing Areas: International Case Studies (Esplanade)
3:30 PM – 5:00 PM	<p>CONCURRENT SESSION VIII</p> <ul style="list-style-type: none"> ■ Current Trends in Humans Dimensions and Adaptive Management (Redondo 1) ■ Multi-Organization Coordination: A Tool for Effective Integration (Redondo 2,3) ■ From Erosion to Urban Pressures: Addressing Coastal Vulnerability (Bay) ■ Panel: Early Warning Systems for Coastal Ecosystems and Public Health Concerns (Catalina)
5:00 PM	END OF CONFERENCE





Sunday Workshops

These optional workshops are open to both conference registrants as well as non-registrants; however, everyone must register. If you have not registered for workshops before the conference but would like to attend, please check with the Registration Desk for availability. The fee for *each* workshop is as follows:

- \$30 if conference registrant
- \$60 if not registered for conference

■ **Redevelopment Planning For Coastal Communities**

Sunday, June 29, 2008

Session I: 8:30 AM – 12:00 PM (Esplanade)

Post-disaster redevelopment planning is an important tool for developed coastal areas subject to risk from natural hazards. Post-disaster redevelopment planning is voluntary in most states; however, communities across the country are beginning to recognize the value of planning for post-disaster redevelopment in the wake of Hurricane Katrina and the subsequent Gulf Coast recovery efforts. Planning prior to a disruptive event enhances coastal community resilience and eases post-disaster recovery and reconstruction. This workshop will focus on the fundamentals of recovery and redevelopment planning; provide examples of good redevelopment plans and lessons learned; and introduce participants to the planning process, including how to form multi-disciplinary planning teams and conduct public involvement. Redevelopment planning in the context of rising sea levels and climate change will also be discussed.

Workshop Leader and Contact: Kimberly Collini, Coastal States Organization, kcollini@coastalstates.org

■ **Challenging Issues, Challenging Future: Take The Challenge To Be A Leader In Coastal Management In 2028**

Sunday, June 29, 2008

1:30 PM – 5:00 PM (Marina)

Coastal management is in a period of profound transition. The profession faces challenges and opportunities to build upon the past 30 years and to proactively face the future. Leaders in coastal management at local, state, and national organizations will be retiring en masse within the next ten years as the Baby-Boomers (born ~ 1946-1964) are replaced with Generation-X' and Y-ers (born ~ 1964-1977 and ~ 1977-1997 respectively). The Coastal Zone Management Act that has been a major driver of coastal management in the past three decades is under revision and any changes will shape federal and state efforts in the future. The exodus of current leaders is concerning in terms of the collective "loss" of institutional history and intellectual capital; however the departure of leadership across multiple levels provides opportunities for young professionals with the interest and motivation to positively impact coastal resources. Building from the Coastal Zone 2007 discussion "Preparing for the Next Generation of Coastal Management," the panel speakers will offer insight into their experiences, challenges and lessons learned during their careers as coastal professionals. Speakers will discuss what future coastal management issues and managers might "look like" in the year 2028, just a short 20 years away. Motivating presentations will challenge participants to think creatively about the future role of individuals and organizations in positively impacting coastal management. A facilitated discussion will follow to identify steps to take to foster inspired, innovative, and flexible professionals prepared to steward the oceans and coasts of 2028. Potential speakers include:

- Virginia Burkett, Chief Scientist Global Change Research Program, USGS
- Richard Lagnan, Co-Director, Cooperative Institute for Coastal and Estuarine Environmental Technologies
- Margaret Davidson, Director of NOAA's Coastal Services Center

Workshop Leaders: Susan White and Cory Riley

Contact: Susan at the Hollings Marine Laboratory & Center for Excellence in Oceans and Human Health, NOAA National Centers for Coastal Ocean Science, Susan.White@noaa.gov



Field Trips

Following the success of past TCS conferences, TCS 21's organizers are again organizing exciting field trips that encourage attendees to explore and learn together about California's coastal environment, and to ground the issues to be highlighted and discussed at TCS 21 with real-world examples. If you have not registered for field trips before the conference but would like to attend, please check with the Registration Desk for availability.

■ Bolsa Chica Ecological Reserve

Experienced docents, provided by the Bolsa Chica Land Trust, will tell you the story of Bolsa Chica. After an absence of 107 years, a direct connection of the Bolsa Chica wetlands to the ocean was opened on August 25, 2005 at 5:23 AM, and the ecosystem is already changing. This is an opportunity to witness restoration in progress. Planting of eelgrass and cordgrass has started. On your two-mile hike, you will see many resident bird species. The migration from the north along the Pacific Flyaway is beginning, so you may see some migrant species as well. On the return to Long Beach, we will stop to view the Seal Beach National Wildlife Refuge.

TIME: Sunday, June 29, 1:00 PM – 4:30 PM

COST: \$25

WHAT TO BRING: water, snack, sunscreen, walking shoes, hat, binoculars (No cameras on Seal Beach NWR.)

■ Wrigley Institute on Santa Catalina Island

During the boat ride from Marina del Rey to Catalina Island, a biologist from the Southern California Marine Institute will accompany you and provide interpretive explanations of the region's flora and fauna. At the island, a tour of the University of Southern California's Wrigley Institute will include explanations of the research being conducted there. After a leisurely lunch break (bring your own bag lunch, purchased before boat departure), you will tour the island's decompression chamber and embark on a scenic hike. Enjoy more wildlife watching opportunities on the boat ride back to the mainland.

TIME: Sunday, June 29, 8:00 AM – 7:00 PM

TRANSPORTATION TO MARINA DEL REY: Best by taxi, approximately \$17.50 each way, not included in cost

COST: \$90

WHAT TO BRING: water, snack, sunscreen, walking shoes, hat, light jacket for boat, binoculars, camera

■ Visit the Southern California Edison, Redondo Beach Power Generating Station

The Edison power plant in Redondo Beach utilizes some unique techniques as they generate 1,310 megawatts of power daily and distribute it into the southern California power grid. The plant utilizes co-generation techniques as well as scavenging waste heat into a heated seawater plunge at King Harbor. We will tour the facility and learn how Southern California Edison manages a large power plant in the midst of a densely populated coastal city that depends on tourism for its local economy. We'll also learn how the station utilizes and discharges cooling water into the adjacent Santa Monica Bay. The station is across the street from the Crowne Plaza Hotel. General tour is approximately 2½ hours.

TIME: Sunday, June 29, time TBD

(This trip can also be taken on your own on any day)

COST: none, but you need to register for Sunday's trip

WHAT TO BRING: MUST bring a photo ID; walking shoes, camera

PLEASE NOTE: *Persons who have had a medically administered test or treatment using a radionuclide (isotopes of iodine, thallium, and technetium are the ones most often used) within the previous 30 days must bring a letter from their doctor describing the test, the radionuclide used, and the date and time of administration.*

■ A Day on the Water – Kayaking!

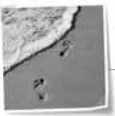
Spend some time out on the water, gaining a different perspective of coastal living and observing coastal habitats of multiple species found in this area of the country.

LOCATION: Redondo Beach Marina on the "International Boardwalk," half-mile walk from the hotel. TCS trip leader will lead group along local coastline.

TIME: Sunday, June 29, 10:00 AM – 12:00 PM

COST: You must register for this trip. Seasonal rates are payable directly to the kayak rental company; \$15 for each single kayak, \$25 for each double kayak

WHAT TO BRING: water, snack, sunscreen, hat



■ **Self-Guided Bike Tour along the Santa Monica Bay Bike Path**

Enjoy a self-guided bike tour along the Santa Monica Bay Bike Path – a great way to enjoy views of the ocean while escaping the cars and smog of the city. The longest beach path of its kind in the world, the trail stretches 22 miles from Malibu in the north to Torrance in the south. This magnificent bike trail is one of the most popular free, public athletic amenities in all of California. It is open to most non-motorized wheeled conveyance and offers riders an extensive sampling of Southern California beaches and beach culture.

LOCATION: TCS trip leader will lead group on flat paved bike path along coast to Marina del Rey (5 miles), on to Venice Beach, toward Pacific Palisades (10-15 miles total one way).

Group sets itinerary, but you can break off whenever you wish.

TIME: Sunday, June 29, 10:00 AM – ??

COST: You must register for this trip. Bike rental fees are seasonal and paid directly to the boardwalk bike rental company across from the hotel.

WHATTO BRING: water, snack, sunscreen, hat, camera

■ **Visit the Aquarium of the Pacific – FREE TICKETS**

Home to more than 12,500 ocean animals, representing nearly 500 species, the Aquarium of the Pacific celebrates the planet's largest and most diverse body of water: the Pacific Ocean. Featuring 19 major habitats and 32 focused exhibits, this world-class aquarium, explores the waters of Southern and Baja California, the Northern and Tropical Pacific. In addition to three main galleries highlighting large regions of the Pacific, the Aquarium features three major exhibitions: Shark Lagoon, the Lorikeet Forest aviary, and the special exhibits gallery featuring changing exhibits. The aquarium has generously provided complimentary tickets for all conference attendees. It is located at 100 Aquarium Way, Long Beach 90802. (562) 590-3100. It is open from 9:00 AM to 6:00 PM every day.

TIME: This trip is taken on your own on any day.

COST: Free tickets are available at the registration desk.





Concurrent Sessions I

MONDAY, JUNE 30 • 1:30 PM – 3:00 PM

Perspectives in Management Planning: Linking Research and Policymaking (Redondo 1)

Moderator: Thomas Bigford, NOAA Fisheries Office of Habitat Conservation

Linking Land Use Research to Decision-making: Designing a Federal Funding Program

- Kalle Matso, The Cooperative Institute for Coastal and Estuarine Environmental Technology, University of New Hampshire

Development of Ohio's Lake Erie Shore Erosion Management Plan

- Amanda Wenzel, Ohio Department of Natural Resources

Wetlands Restoration Planning in Santa Monica Bay

- Sean Bergquist, Santa Monica Bay Restoration Commission

Integrating Science, Management, and Marine Stewardship

- Kit Rawson, Tulalip Natural Resources Department

Challenging Issues, Challenging Future: Take the Challenge to be a Leader in Coastal Management (Redondo 2,3)

Moderator: Susan White, Hollings Marine Laboratory and Center for Excellence in Oceans and Human Health NOAA National Centers for Coastal Ocean Science

- Margaret Davidson, NOAA Coastal Services Center
- Virginia Burkett, USGS National Wetlands Research Center
- Michael Orbach, Nicholas School of the Environment, Duke University
- Stephen Weisberg, Southern California Water Resources Research Project

Use of Climate Change Data on Coastal Planning and Practices (Bay)

Moderator: Lauriston King, East Carolina University

Economic Indicators of Climate Change on Coastal Communities

- Kristin Csik, Monterey Bay Aquarium Research Institute

Measuring the Impacts of Sea Level Rise on Coastal Real Estate in North Carolina

- Okmyung Bin, East Carolina University

Problems with Climatic Data in Coastal Management and Planning

- Lisa Schiavinato, North Carolina Sea Grant

Pacific Islands Climate Change Portal

- Carrie Hall, NOAA / NOS Office of Ocean and Coastal Resource Management

Sustainable Developments in Coastal Mississippi After Hurricane Katrina (Mezzanine)

Moderator: Melissa Pringle, Eco-Systems, Inc.

- Melissa Pringle, Eco-Systems, Inc.
- Jeff Allen, Eco-Systems, Inc.
- Adam Dial, Eco-Systems, Inc.
- Jay Estes, Eco-Systems, Inc.

Tools and Strategies for Preserving Working Waterfronts (Catalina)

Moderator: Jim Connors, Maine Coastal Program

Preserving Working Waterfronts Through Strategic Decision-Making

- Gilbert Sylvia, Hatfield Marine Science Center, Oregon State University

Progressive Stewardship of Public Trust Lands in Massachusetts

- Dennis Ducsik, Massachusetts Office of Coastal Zone Management

New Initiatives to Enhance Collaboration, Communication, and Participation

- Tali Engoltz, New Jersey Department of Environmental Protection

Economic Impacts of North Carolina's Saltwater Recreation Industry

- Christopher Dumas, University of North Carolina-Wilmington

International Practices Case Studies: The Pacific Rim, South America, and the Caribbean (Esplanade)

Moderator: Ariel Cuschnir, Louis Berger Group

Akeshi: A Small Town's Coastal Zone Management Challenges

- Midori Kawabe, Tokyo University of Marine Science and Technology

Newcastle's South Pacific Beach Reinvented

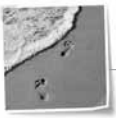
- Robert Sirasch, University of Newcastle

Addressing Marine Pollution in Guyana

- Arwen Edsall, University of Washington

Natural Hazards, Physical Planning, and Caribbean Coastal Tourism

- Roche Mahon, University of the West Indies



Concurrent Sessions II

MONDAY, JUNE 30 • 3:30 PM – 5:00 PM

Envisioning the Future of Coastal and Ocean Management: Bringing Science to Management (Redondo 1)

Moderator: Ralph Cantral, NOAA /NOS Office of Ocean and Coastal Resource Management

- Susan White, Hollings Marine Laboratory and Center for Excellence in Oceans and Human Health NOAA National Centers for Coastal Ocean Science
- Ginger Hinchcliff, NOAA Coastal Services Center
- Robert Bailey, Oregon Department of Land Conservation and Development
- Whitley Saumweber, NOAA /NOS Office of Ocean and Coastal Resource Management

Wave Energy on the Oregon Coast (Catalina)

Moderator: Holly Campbell, Oregon State University

The Regulatory Regime for Wave Energy Development in Oregon: A Work in Progress

- Paul Klarin, Oregon Coastal Management Program

Exploring the Wave Energy Environmental Planning Process

- Holly Campbell, Oregon State University and Federal Energy Regulatory Commission

Engaging Coastal Communities in Wave Energy Development

- Flaxen Conway, Oregon Sea Grant

The Reedsport Settlement Process: A Model for Wave Energy Planning?

- Peter Stauffer, Surfriider Foundation

Adapting to Climate Change: The Need for Strengthened Resiliency (Bay)

Moderator: Julia Wyman, Coastal States Organization

Identifying Needs to Increase Resiliency on the U.S. West Coast

- Chris Ellis, NOAA Coastal Services Center

Adapting to Climate Change to Improve Social-Ecological Resilience

- Daniel Huppert, University of Washington

Coastal Structures in Massachusetts and Options for Future Management

- Leslie-Ann McGee, Massachusetts Office of Coastal Zone Management

Improving Coastal Land Use Planning Through a Grant Competition (Mezzanine)

Moderator: Stephanie Showalter, National Sea Grant Law Center

Enhancing Understanding of Authorities of Coastal Commissions in Massachusetts

- James O'Connell, Woods Hole Sea Grant

Model Coastal Management Ordinance for Great Lakes Coastal Communities

- Brian Ohm, University of Wisconsin

Legal Tools to Protect Coastal Environments Outreach Workshop

- Colleen Masterson, Great Lakes Water Studies Institute

Development of a National Model Coastal Floodplain By-Law

- James O'Connell, Woods Hole Sea Grant

Social Equity for Fishing Communities: An International Perspective (Redondo 2,3)

Moderator: Terry Ogawa, Group 70 International

Implications of Fishery Management Measures on International Trade Flows

- Monica Galligan, California State University-Monterey Bay

Building Equity and Protecting Reefs in Panama

- Robert "BJ" Atanasio, California Department of Transportation

A Fishers Cooperative for Integrating Social Equity and Coastal Management

- Kristina Peterson and Rosina Philippe, University of New Orleans

International Practices Case Studies: Southeast Asia (Esplanade)

Moderator: Leigh Taylor Johnson, University of California Sea Grant

Marine Protected Area Networks in the Philippines

- Diana Pietri, University of Washington

Integrated Coastal Zone Management in India

- K. Shadananan Nair, Centre for Earth Research and Environment Management

Uncertainty in Climate Change and Limits for Coastal Management in Bangladesh

- Mohammad Khastagir, Dalhousie University



Concurrent Sessions III

TUESDAY, JULY 1 • 8:30 AM – 10:00 AM

Use of Technological Tools and Databases in Decision-Making (Redondo 1)

Moderator: Megan Bailiff

Creating an Integrated Ocean Monitoring System in California

- Sheila Semans, California Coastal Conservancy

Integrating Geospatial Technology into Local Coastal Zone Management

- Jordan Gass, Virgin Islands Division of Coastal Zone Management

Technology Tools for Coastal-Marine Ecosystem-Based Management

- Jamie Carter, NOAA Coastal Services Center

Seafloor Mapping for Integrated Ocean Management in Massachusetts

- Leslie-Ann McGee, Massachusetts Office of Coastal Zone Management

Beyond Ordinary Politics in Coastal Resource Management (Redondo 2,3)

Moderator: Eldon Hout (Ret.), NOAA Office of Ocean and Coastal Resource Management

Marine Debris Knowledge: Using the Best Science to Guide Efforts

- Kristine McElwee, NOAA Marine Debris Program

Bureaucratic Expertise, International Advocacy, and Policy

Entrepreneurs: Zoning the Great Barrier Reef

- Betsi Beem, University of Sydney

Beyond Politics of Place

- Linda Maxson, University of Washington

Climate Change Impacts to Coastal Communities (Bay)

Moderator: Luzviminda Damaano, University of Santo Tomas

Impacts of Climate Change on San Francisco Bay

- Tim Doherty, San Francisco Bay Conservation and Development Commission

Planning and Policy Implications of Sea Level Rise for Hawaii's Coastal Communities

- Dolan Eversole, Hawaii Sea Grant

Climate Change and Tourism: The Case for the Outer Banks of North Carolina

- David Edgell, East Carolina University

Legal and Policy Impacts of Sea Level Rise to Beaches and Coastal Property

- Megan Higgins, Rhode Island Sea Grant Legal Program

Preserving Social Equity Along the Coast Through Regulation (Esplanade)

Moderator: Chris Ellis, NOAA Coastal Services Center

Social Equity, Coastal Law, and Policy: Framing the Dialogue

- Kate Killerlain Morrison, The Nature Conservancy-Massachusetts Chapter

Social Equity, On-Street Parking, and Shoreline Access

- Robert Thompson, University of Rhode Island

Ensuring Coastal Planning Processes are Procedurally Just

- Christopher Hawkins, University of Massachusetts-Amherst

Should Government Control the Cost of Overnight Accommodations?

- Robert Thompson, University of Rhode Island

Marine Affairs Education in the 21st Century (Catalina)

Moderator: Mark Imperial, University of North Carolina-Wilmington

- Thomas Bigford, NOAA Fisheries Office of Habitat Conservation
- Lauriston King, East Carolina University
- Thomas Lechine, University of Washington
- Timothy Hennessey, University of Rhode Island
- Christine Patrick, NOAA Office of Ocean Exploration and Research

Law and Policy Challenges in Land Use Planning (Mezzanine)

Moderator: Kristen Fletcher, Coastal States Organization

Improving Compliance with the California Coastal Act

- Elijah Davidian, California Coastal Commission

Regulations Protecting Public Rights to Natural Resources

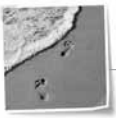
- Timothy Mulvaney, New Jersey Attorney General's Office

Use of the Doctrine of Custom in Rhode Island

- Amanda Argentieri, Roger Williams University School of Law

Emerging Ocean Policy Challenges in North Carolina

- Lisa Schiavinato, North Carolina Sea Grant



Concurrent Sessions IV

TUESDAY, JULY 1 • 10:30 AM – 12:00 PM

Developing a Regional Sea Grant Research and Information Needs Strategy for the Pacific Coast (Redondo 1)

Moderator: Phyllis Grifman, University of Southern California Sea Grant

- Phyllis Grifman, University of Southern California Sea Grant
- Usha Varanasi, NOAA Northwest Fisheries Science Center or Rebecca Smyth, NOAA Northwest Region
- Brian Baird, California Resources Agency or Amy Boone, California Resources Agency
- Julie Risien, Oregon Sea Grant

The Intersection of Local Knowledge and Science on the Road to Effective Management (Redondo 2,3)

Moderator: Tali Engoltz, New Jersey Department of Environmental Protection

Reef Check California: Applying Scientific Rigor to Community-Based Monitoring

- Fiona Nagle, Reef Check Foundation-California

The Surfrider Foundation's Blue Water Task Force

- Mara Dias, Surfrider Foundation

Participatory GIS: Evaluation and Comparison of Two Case Studies

- Danielle Bamford, NOAA Coastal Services Center

Enhanced Decision-Making: Knowledge, Attitudes, and Access to Knowledge

- Susan Lovelace, Hollings Marine Laboratory

Climate Change Adaptation: The Nature Conservancy's Approach in New England (Bay)

Moderator: Kate Killerlain Morrison, The Nature Conservancy-Massachusetts Chapter

- Kate Killerlain Morrison, The Nature Conservancy-Massachusetts Chapter
- Carolyn Shumway, The Nature Conservancy-Rhode Island Chapter
- Sarah Newkirk, The Nature Conservancy-Long Island Chapter

Starving the Pacific Coast Beaches of California, Oregon, and Washington (Mezzanine)

Moderator: Orville Magoon

- Orville Magoon
- Don Treadwell
- Jim Richmond
- Lisa Schiavinato, North Carolina Sea Grant

Lessons from the Waterfront I: State Approaches to Preserving Working Waterfronts (Catalina)

Moderator: Tom Murray, Virginia Sea Grant

Maine's Working Waterfronts Protection Program

- Jim Connors, Maine Coastal Program

Planning Working Waterfronts in Massachusetts

- Dennis Ducsik, Massachusetts Office of Coastal Zone Management

Managing Land and Water Use Conflicts in Virginia

- Lewie Lawrence, Middle Peninsula Planning District Commission

North Carolina's Approach to Preserving Working Waterfronts

- Michael Voiland, North Carolina Sea Grant

Exploring Coastal Management Legal Issues Through a Grant Competition (Esplanade)

Moderator: Stephanie Showalter, National Sea Grant Law Center

Testing an Online Tool to Improve Coastal Access in Maine

- Kristen Whiting-Grant, Maine Sea Grant

Examining the Evolving Public Trust in South Carolina

- Matt Pecoy, University of South Carolina School of Law

Developing a Consortium for an Adaptive Management Strategy in the Gulf of Mexico

- Richard McLaughlin and Mikell Smith, Harte Research Institute for Gulf of Mexico Studies

Monumental Questions: Governing the Northwestern Hawaiian Islands Marine National Monument

- Alison Rieser, University of Hawaii-Manoa



Concurrent Sessions V

TUESDAY, JULY 1 • 1:30 PM – 3:00 PM

The Link Between the Multidisciplinary Approach and Informed Decision-Making (Redondo 1)

Moderator: Jeff Benoit, Restore America's Estuaries

Education for a Sustainable Tokyo Bay: Learning Through a Partnership Through University and Coastal Communities

- Midori Kawabe, Tokyo University of Marine Science and Technology

Dealing with Knowledge and Perceptions in Complex Coastal Issues

- Saskia Hommes, University of Twente

Linking Science, Policy, and Management

- Marina Psaros, San Francisco Bay National Estuarine Research Reserve

Lots of Base Hits and (Maybe) a Lucky Home Run: A Different Strategy for U.S. Marine Policy

- Lauriston King, East Carolina University

Financing Coastal Protection: Tools and Ideas (Redondo 2,3)

Tim Jones, EPA Office of Wetlands, Oceans, and Watersheds

- Tim Jones, EPA Office of Wetlands, Oceans, and Watersheds
- Rahki Kasat, EPA Office of Wetlands, Oceans, and Watersheds
- Ray Allen, Coastal Bend Bays and Estuaries Program
- Shelley Luce, Santa Monica Bay Commission

Evaluating Management Strategies to Mitigate Impacts of Aquatic Invasive Species (Bay)

Moderator: Alisha Dahlstrom, University of California Sea Grant

- Alisha Dahlstrom, University of California Sea Grant
- Leigh Taylor Johnson, University of California Sea Grant
- Daniel Kane, Propulsion Dynamics, Inc.
- Scott Godwin, Hawaii Institute of Marine Biology

Lessons from the Waterfront II: State Approaches to Preserving Working Waterfronts (Catalina)

Moderator: Tali Engoltz, New Jersey Department of Environmental Protection

Waterfront Land Use Change and Regulation in New Bedford

- Michelle Portman, Woods Hole Oceanographic Institution

Preserving Heritage Fishery Tourism in Leland, Michigan

- Mark Breederland, Michigan Sea Grant

Assessment of Water-Dependent Uses in the New York City Metro Area

- Tiffany Smythe, University of Rhode Island

Working Waterfronts in Alabama and Mississippi Post-Hurricane Katrina

- Jody Thompson, Mississippi-Alabama Sea Grant

Navigating the "New Frontier" of Alternative Energy (Esplanade)

Moderator: Megan Higgins, Marine Affairs Institute, Roger Williams University

Tidal Energy in Washington State

- Rebekah Padgett, Washington State Department of Ecology

Ocean Energy Development: Linking Policy, Science, and Industry in California

- Laura Engeman, California Ocean Protection Council

Offshore Wind Energy in Rhode Island

- Erich Stephens, Bluewater Wind

Land Use Challenges at the Local Level (Mezzanine)

Moderator: Patrick Lawrence, University of Toledo

The California Coastal Act: What Difference Has It Made?

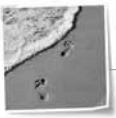
- Jeffrey Onsted, Florida International University

The Massachusetts "StormSmart Coasts" Program

- Wesley Shaw, Massachusetts Office of Coastal Zone Management

Are Land Use Plans Agents of Change in North Carolina?

- Gregory Meyer, East Carolina University



Concurrent Sessions VI

TUESDAY, JULY 1 • 3:30 PM – 5:00 PM

Human Dimensions in Managing Coastal Quality (Redondo 1)

Moderator: Susan Lovelace, Hollings Marine Laboratory

- Susan Lovelace, Hollings Marine Laboratory
- Erica Seiden, NOAA Estuarine Reserves Division
- Guy DiDonato, Hollings Marine Laboratory

Improving Fisheries Management Through a Grant Competition (Redondo 2,3)

Moderator: Stephanie Showalter, National Sea Grant Law Center

Fisheries for the Bench

- Megan Higgins, Marine Affairs Institute, Roger Williams University

Cooperative Harvesting Agreements Workshop for New England Groundfish Fisheries

- Rita Heimes, University of Maine School of Law

Development of a Near-Shore Legal and Policy Framework for Community-Based Management Opportunities in Oregon

- Stephanie Iudicello, MRAG Americas

Area-Based Management: Examples of Comprehensive Marine Spatial Management (Bay)

Moderator: Rachel Strader, Gordon and Betty Moore Foundation Marine Conservation Initiative

- Bud Ehler, Intergovernmental Oceanographic Commission of UNESCO
- Leslie-Ann McGee, Massachusetts Office of Coastal Zone Management
- Debbie Sivas, Stanford University School of Law
- Steve Diggon, Turning Point Initiative, Coastal First Nations

Mapping and Modeling Tools for Coastal Land Use Planning (Mezzanine)

Moderator: Patrick Lawrence, University of Toledo

Land Cover Maps for Monitoring Changes in the Nation's Coastal Zone

- John McCombs, NOAA Coastal Services Center

Developing Data Tools and Models for Southern California

- Edward Myers, NOAA / NOS Coast Survey Development Laboratory

Mapping the Social Landscape of Land Uses in New Hampshire

- Erika Washburn, University of New Hampshire

Environmental Health Issues for Ports and Harbors (Catalina)

Moderator: Tiffany Smythe, University of Rhode Island

The Portfields Initiative: Revitalizing Port and Harbor Communities

- Kenneth Walker, NOAA Office of Ocean and Coastal Resource Management

Incorporating Aquatic Habitat Values in Working Waterfronts

- Ronald Alevras, HDR LMS

Indicators of Ocean and Coastal Health for Working Waterfronts

- Linwood Pendleton, The Ocean Foundation

A New Challenge to Water Quality Monitoring in the Columbia Estuary

- Tiffany Gregg, Oregon State University

Integrated Ocean and Coastal Mapping: Providing Solutions to Coastal Challenges (Esplanade)

Moderator: Tom Skinner, Durand and Anastas Environmental Strategies and NOAA Hydrographic Services Review Panel

- Captain Roger Parsons (Ret.), NOAA Integrated Ocean and Coastal Mapping
- John Haines, U.S. Geological Survey
- Gary Greene, Tombolo Habitat Institute
- Sheila Semans, California Coastal Conservancy
- Representative Deborah Boone, Oregon House of Representatives
- Bruce Carlisle, Massachusetts Office of Coastal Zone Management



Concurrent Sessions VII

WEDNESDAY, JULY 2 • 1:30 PM – 3:00 PM

States Taking the Lead: Strengthening Integration of Science, Policy, and Management (Redondo 1)

Moderator: Erika Washburn, University of New Hampshire

Beach Water Quality: Balancing Competing Uses Within the Existing Regulatory Framework

- Renee Purdy, California Regional Water Quality Control Board

Sea Grant's Role in Coastal Management in Hawaii

- Chris Conger, Hawaii Department of Land and Natural Resources

Walking in Each Other's Footprints: The Benefits and Costs of Cooperation

- Flaxen Conway, Oregon Sea Grant

Approaches Used in Designing Evaluation Guidance for the EPA's National Estuary Program (Redondo 2,3)

Moderator: Theresa Trainor, EPA Office of Wetlands, Oceans, and Watersheds

- Theresa Trainor, EPA Office of Wetlands, Oceans, and Watersheds
- Fred McManus, EPA Region 4
- Richard Ribb, Narragansett Bay Estuary Program
- Ginger Hinchcliff, NOAA Coastal Services Center

Thinking Ahead: Innovative Approaches to Conservation and Growth Management (Catalina)

Moderator: Jeff Benoit, Restore America's Estuaries

Partnering for Collaborative Coastal Conservation

- Brooke Chakides, NOAA Coastal Services Center

Leasing and Ownership of Ocean and Coastal Waters as a Conservation Strategy

- Jay Udelhoven, The Nature Conservancy – Global Marine Initiative

Sustainable Public Access in the Virginia Coastal Zone

- Jacqueline Shapo, Middle Peninsula Chesapeake Bay Public Access Authority

Social Marketing to Improve Growth Management in Coastal Maine

- Patrick Wright, Maine State Planning Office

Planning for Aquaculture and Agriculture in the Coastal Zone (Mezzanine)

Moderator: Robert Goodwin (Ret.), Washington Sea Grant

Marine Aquaculture: Examples of Emerging Property Interests

- John Duff, University of Massachusetts-Boston

Implications of CAFOs for Coastal and Watershed Land Use Planning

- Patrick Lawrence, University of Toledo

Coastal Agriculture of Bangladesh: How to Adapt to Sea Level Rise?

- Golam Sarwar, Committed to Earth Care

Climate Change and the Law, Economics, and Policy of California Land Use Change: Coastal Management Risks and Vulnerabilities (Bay)

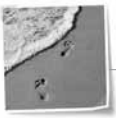
Moderator: Judith Kildow, Monterey Bay Aquarium Research Institute

- Judith Kildow, Monterey Bay Aquarium Research Institute
- Meg Caldwell, Stanford University School of Law
- Karen Seto, Woods Institute for the Environment, Stanford University
- Michael Mastrandrea, Woods Institute for the Environment, Stanford University

The Socio-Economics and Management of Surfing Areas: International Case Studies (Esplanade)

Moderator: Linwood Pendleton, The Ocean Foundation

- Chad Nelsen, Surfrider Foundation
- Neil Lazarow, The Australian National University
- Melissa Murphy, Save the Waves Coalition
- Paula Pijoan, Fundacion Surfrider de Ensenada



Concurrent Sessions VIII

WEDNESDAY, JULY 2 • 3:30 PM – 5:00 PM

Current Trends in Human Dimensions and Adaptive Management (Redondo 1)

Moderator: Kate Killerlain Morrison, The Nature Conservancy-Massachusetts Chapter

Interagency Human Dimensions of Natural Resource Management Web Portal

- Chris Ellis, NOAA Coastal Services Center

Scuba Diver Specialization and Norms: Human Dimensions in Coral Reef Management

- David Loomis, University of Massachusetts-Amherst

Best Management Practices for Adaptive Management of Large-Scale Restoration Programs

- Justin Boevers, University of Washington

Multi-Organization Coordination: A Tool for Effective Integration (Redondo 2,3)

Moderator: Paul Ticco, NOAA National Marine Sanctuary Program

Collaborative Development of Science, Restoration, and Protection Goals for San Francisco Bay

- Korie Schaeffer, NOAA Fisheries Habitat Conservation Division

California Land and Water Use Partnerships: Lessons Learned from Early-Stage Stakeholder Collaboration

- Susan Zaleski, University of Southern California Sea Grant

Minimizing Ship Strikes on Whales in the Stellwagen Bank National Marine Sanctuary

- Paul Ticco, NOAA National Marine Sanctuary Program

From Erosion to Urban Pressures: Addressing Coastal Vulnerability (Bay)

Moderator: Robert Goodwin (Ret.), Washington Sea Grant

Trends in Coastal Vulnerability in Hawaii

- Jamie Carter, Perot Systems Government Services, NOAA Pacific Services Center

Implementing Ecosystem-Based Management in the Ventura River Bioregion

- A. Paul Jenkin, Surfrider Foundation

Living Shorelines Projects on the Eastern Shore of Maryland

- Bhaskaran Subramanian, Maryland Department of Natural Resources

Early Warning Systems for Coastal Ecosystems and Public Health Concerns (Catalina)

Moderator: Susan White, Hollings Marine Laboratory and Center for Excellence in Oceans and Human Health, NOAA National Centers for Coastal Ocean Science

- Kalle Matso, The Cooperative Institute for Coastal and Estuarine Environmental Technology, University of New Hampshire
- John Griffith, Southern California Coastal Water Research Project
- Rebecca Love, NOAA Coastal Services Center
- Guy DiDonato, Hollings Marine Laboratory



Presentation Abstracts

