



conference

AT-A-GLANCE

JUNE 4 - 5, 2019 | RONALD REAGAN BUILDING | 1300 PENNSYLVANIA AVE, NW | WASHINGTON, DC

TUESDAY, JUNE 4

9 a.m. - 9:30 a.m.	Opening Remarks		
9:30 a.m. - 10:30 a.m.	OPENING PLENARY: Ocean Disrupted		
10:30 a.m. - 11 a.m.	BREAK: Networking and Exhibits (Lobby)		
11 a.m. - 12:15 p.m.	Breathing Easier in Port Cities	Addressing the US Seafood Deficit	Protected Areas in a Changing Climate
12:15 p.m. - 1:15 p.m.	LUNCH: Networking and Exhibits		
1:15 p.m. - 2:15 p.m.	AFTERNOON PLENARY: Transforming the Global Seafood Market		
2:15 p.m. - 2:45 p.m.	BREAK: Networking and Exhibits (Lobby)		
2:45 p.m. - 4 p.m.	Toxins in the Aquatic Environment	Combating Illegal, Unreported and Unregulated Fishing	The State of Shark and Ray Conservation

WEDNESDAY, JUNE 5

9 a.m. - 9:30 a.m.	Opening Remarks		
9:30 a.m. - 10:30 a.m.	MORNING PLENARY: Margaret Davidson Emerging Leaders		
10:30 a.m. - 11 a.m.	BREAK: Networking and Exhibits (Lobby)		
11 a.m. - 12:15 p.m.	Over the Counter Conservation	Building Resilient Fishing Communities	Advancing Conservation with Zoos and Aquariums
12:15 p.m. - 1:15 p.m.	LUNCH: Networking and Exhibits		
1:15 p.m. - 2:15 p.m.	Ocean 2050	Recreational Fishers as Conservation Partners	Whale Conservation in the 21st Century
2:15 p.m. - 2:45 p.m.	BREAK: Networking and Exhibits (Lobby)		
2:45 p.m. - 4 p.m.	CLOSING PLENARY: Powering Our Future		

- TRACK 1:** PLENARIES: GRAND CHALLENGES IN THE OCEAN AND GREAT LAKES
- TRACK 2:** OCEANS AND HUMAN HEALTH
- TRACK 3:** SUSTAINABLE FISHERIES
- TRACK 4:** CONSERVING WILDLIFE



session DESCRIPTIONS

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≈ GRAND CHALLENGES IN THE OCEAN AND GREAT LAKES

1. Ocean Disrupted (Opening Plenary)

Climate change is having widespread disruptive impacts on the ocean, coasts and Great Lakes and the communities who rely on them. Learn more about what the Fourth National Climate Assessment and the IPCC Special Report are telling us about the impacts of climate change on the ocean and its ecosystems and actions needed to minimize risks.

2. Transforming the Global Seafood Market

With more than 3 billion people dependent on the ocean for their primary source of protein, establishing a sustainable, global seafood market is more critical than ever. Explore efforts to transform business practices, protect human rights, and maintain food security to ensure a thriving ocean.

3. Margaret Davidson Emerging Leaders

Margaret Davidson was an ocean visionary dedicated to fostering early-career leaders and tackling ocean and coastal issues with unwavering determination and innovation. In her honor, CHOW 2019 hosts the next generation of leaders who are tackling the issue of climate change through innovative thinking about communication, energy development and ocean conservation.

4. Powering Our Future

As energy needs continue to grow globally, siting decisions, seismic testing, and infrastructure development will require balancing different ocean user needs and protecting ocean, coastal and Great Lakes ecosystems and wildlife. How can we plan for the energy growth of the future while minimizing and mitigating harm to our marine and Great Lakes environment?

≈ OCEANS AND HUMAN HEALTH

1. Breathing Easier in Port Cities

International maritime shipping drives global commerce by transporting approximately 90 percent of the world's goods. These vessels are a source of increasing air emissions that harm human health and the environment. Learn how efforts to improve fuel standards, reduce vessel speeds, and implement pollution control measures are moving the bar toward improved air quality for port cities, mitigating against climate change, and reducing whale mortality from ship strikes.

2. Toxins in the Aquatic Environment

Coastal communities are feeling the impacts of harmful algal blooms' increasing length and severity. Public health officials are partnering with marine and Great Lakes agencies to better understand when, where and why waterborne illnesses occur. This panel will explore lessons learned from collaboration and how public health officials are helping managers to maximize their impact.

3. Over the Counter Conservation

For thousands of years, humans have explored nature and used plants and animals to develop products that improve our lives and health and fight disease. Our ocean, which is the most diverse and complex biological community, holds tremendous potential for discovery of new products. Efforts to harvest products from the ocean can both aid in the conservation of marine area but also lead to the overharvest of resources and illegal wildlife trafficking. Learn how scientists and industry are promoting sustainable use of products while conserving resources.

4. Ocean 2050

By 2050, the global population is expected to reach 9.7 billion. With an increasing number of people depending on the ocean, what can be done to prepare for the strain on its resources? Panelists will examine food security, climate refugees, and marine debris as three case studies in preparing for the future ocean.



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≈ SUSTAINABLE FISHERIES

1. Addressing the US Seafood Deficit

By value, nearly 90 percent of the seafood Americans eat comes from abroad. Experts have debated the best way to address the growing domestic demand for seafood. This panel will explore the causes and proposed solutions to address this issue alongside fishermen, restaurateurs, and economists.

2. Combating Illegal, Unreported, and Unregulated Fishing

From illegal entry into sovereign waters to fostering organized crime, illegal, unreported and unregulated (IUU) fishing poses a number of significant threats to national and ecological security. Hear how innovators are finding solutions to address the challenges posed by IUU fishing.

3. Building Resilient Fishing Communities

Fisheries and fishery-dependent communities are expected to experience major impacts due to climate change. By understanding how these changes will affect fish stocks, managers can better predict availability of resources and help fishing communities adapt. Learn about efforts to incorporate climate knowledge into fisheries science and management.

4. Recreational Fishers as Conservation Partners

Recreational fishing is an American pastime. From advocating for clean water and ecosystem protection to stewarding our next generation of conservationists, sport fishermen are important partners in ensuring sustainable fisheries. This panel will explore conservation efforts of recreational fishermen in our ocean and Great Lakes and ways to improve recreational fishing management.

≈ CONSERVING WILDLIFE

1. Protected Areas in a Changing Climate

Climate change is shifting species composition, habitat and migration patterns in our ocean and Great Lakes. Protected areas are one of the primary ways to conserve biodiversity, but these special places and the species that call them home are increasingly impacted by climate change. This panel features experts who are investigating dynamic management of our protected areas.

2. The State of Shark and Ray Conservation

Sharks and rays are some of the ocean's most iconic species, and yet they face a number of threats from habitat loss, bycatch and targeted fishing efforts. From international treaties to protecting domestic stocks, this panel will explore scientists' efforts to learn more about sharks and rays, improve their protections, and change public perception about their role in the ecosystem.

3. Advancing Conservation with Zoos and Aquariums

Zoos and aquariums are crucial partners in marine conservation. They allow people to encounter marine wildlife, they tell the stories of the ocean and Great Lakes through their research and education efforts, and they help us conserve species. Hear how zoos and aquariums are engaging in conservation efforts and increasing their conservation outcomes through outreach campaigns, cutting edge research, and partnerships.

4. Whale Conservation in the 21st Century

From entanglement to ship strikes to changing habitat conditions, humans play an important role in conserving whales across the globe. Technologies like drones, artificial intelligence, and ropeless fishing gear are making it easier for researchers and managers to study and protect whales. This panel will examine new applications for existing technologies in the fight for whale conservation.

Times, topics, and sessions subject to change at the discretion of the National Marine Sanctuary Foundation.