



# Sea Grant

Putting coastal and Great Lakes science to  
work for communities since 1968

**Jonathan Pennock, Jim Hurley & Amber Mace**  
**National Association of Marine Laboratories – March 2018**

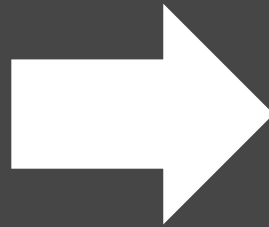
Photo: Coastal marsh, Maryland Sea Grant



# Sea Grant: Federal-private partnership



5% of Federal appropriations stays here



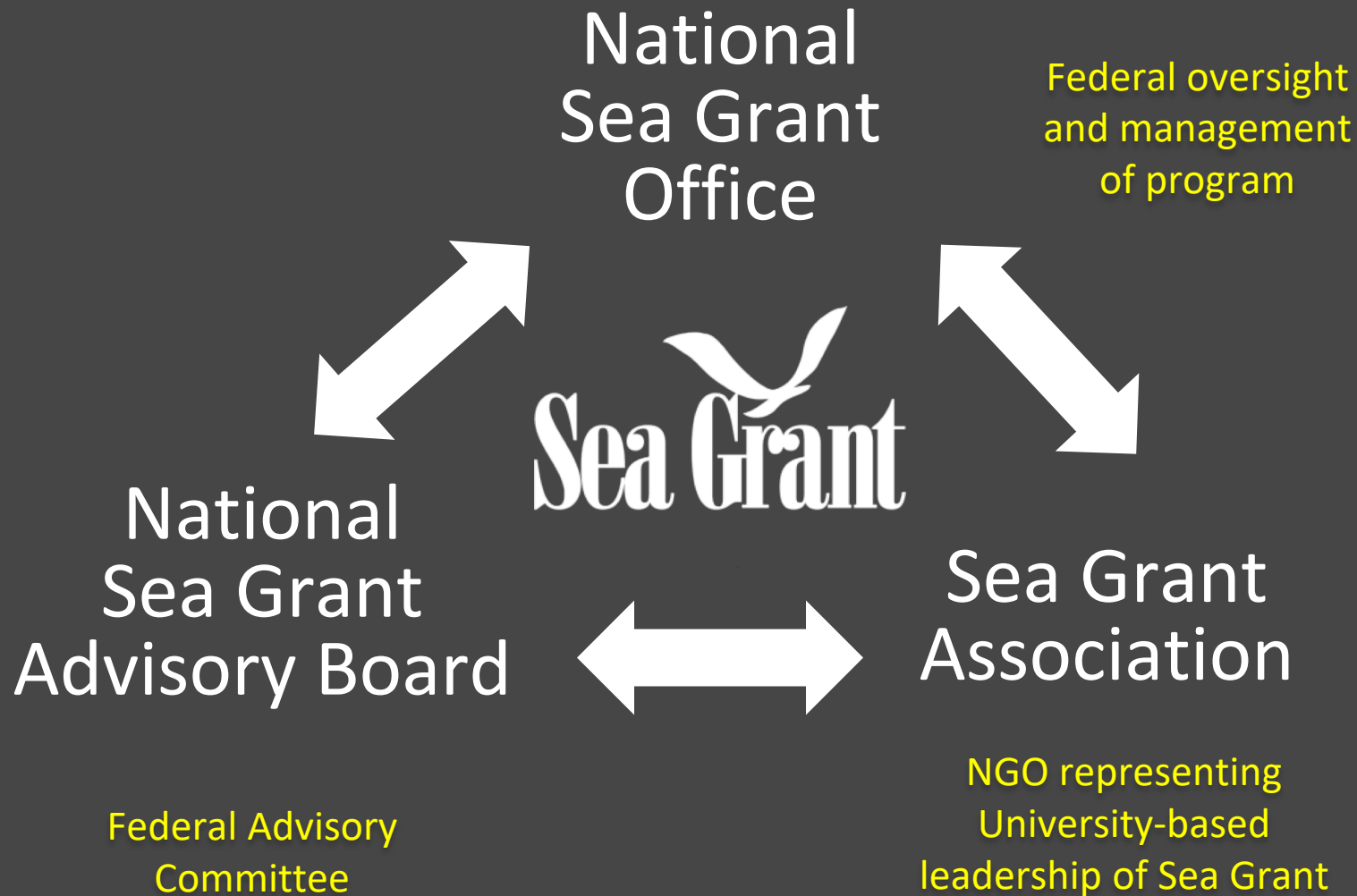
95% of Federal appropriations plus non-federal match of 50% goes to University-based programs

# Sea Grant Mission

To enhance the practical use and conservation of coastal, marine and Great Lakes resources to create a sustainable economy and environment



# National Sea Grant College Program



# Sea Grant's Approach



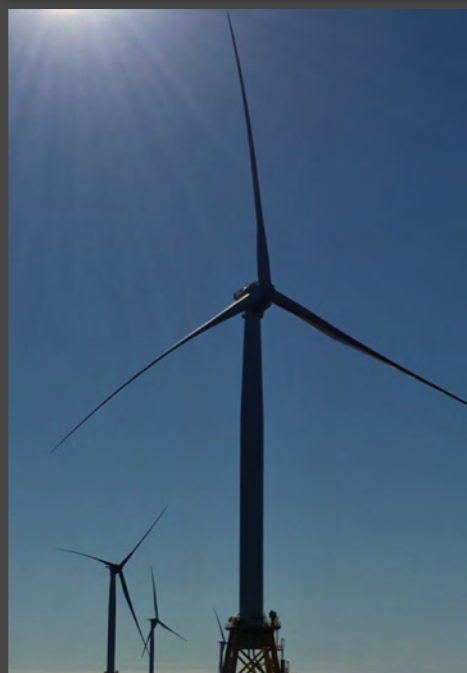
# Sea Grant's Focus Areas

**Healthy Coastal  
Ecosystems**

**Resilient  
Communities and  
Economies**

**Sustainable  
Fisheries and  
Aquaculture**

**Environmental  
Literacy and  
Workforce  
Development**



# Sea Grant's Coastal Research



Understanding impacts of OA on shellfish farmers northwest  
Predicting algal blooms in several locations  
Rip current safety in North Carolina

# Sea Grant's Coastal Outreach



Beach habitat restoration in New Hampshire

Kauai County softens approach to beach restoration in Hawaii

County identifies problems, solutions to beach closures in Wisconsin





# Sea Grant By the Numbers (2016)

\$611M

Economic Benefit

7,110

Jobs created  
or sustained

366,108

Volunteer hours

494

Communities improved  
resilience

2,012

HACCP certifications  
issued by Sea Grant

2,958  
Partners



2,367

Graduate and  
undergraduate  
students supported

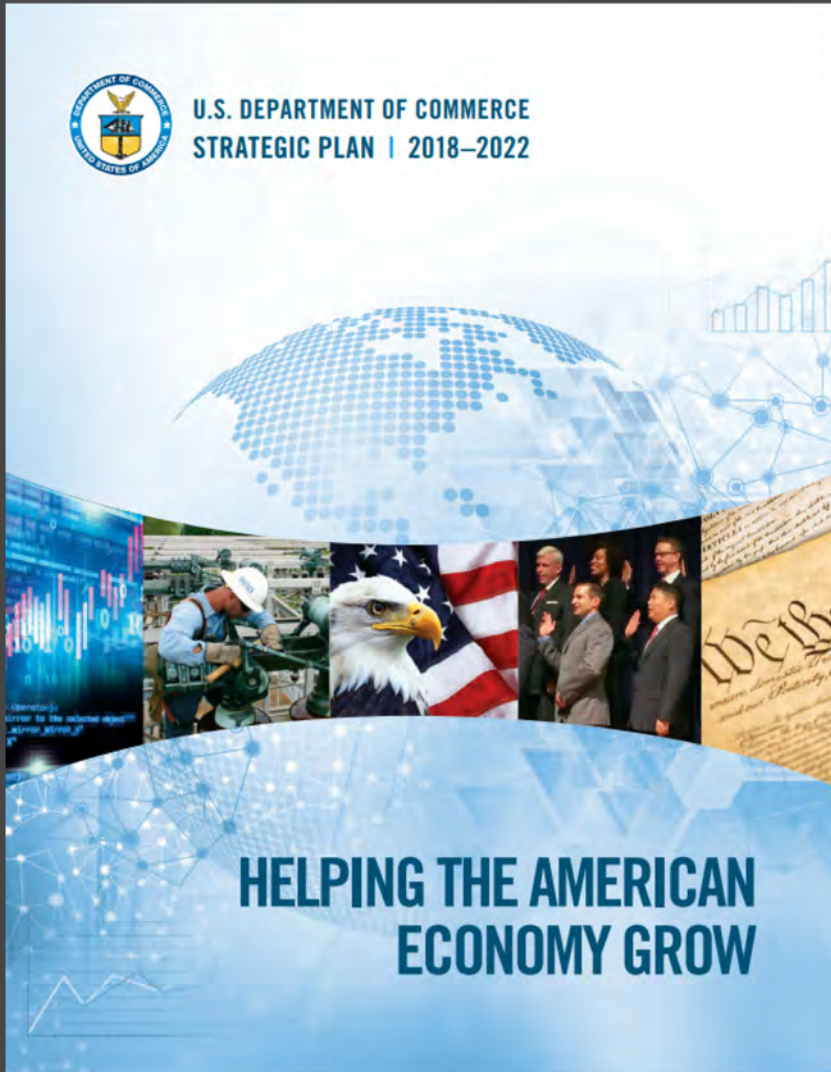







1,473

Scientists affiliated  
with Sea Grant



# National & NOAA Priorities = Opportunities



	<b>Strategic Goal 1 – Accelerate American Leadership</b> .....	<b>3</b>
	Expand Commercial Space Activities .....	4
	Advance Innovation .....	5
	Strengthen Intellectual Property Protection .....	7
	<b>Strategic Goal 2 – Enhance Job Creation</b> .....	<b>8</b>
	Increase Aquaculture Production .....	9
	Reduce and Streamline Regulations .....	10
	Strengthen Domestic Commerce and the U.S. Industrial Base .....	11
	Increase U.S. Exports .....	13
	Increase Inward Investment Into the United States .....	15
	<b>Strategic Goal 3 – Strengthen U.S. Economic and National Security</b> .....	<b>16</b>
	Enforce the Nation's Trade Laws and Security Laws .....	17
	Enhance the Nation's Cybersecurity .....	19
	Reduce Extreme Weather Impacts .....	20
	Deploy Public Safety Broadband .....	21
	<b>Strategic Goal 4 – Fulfill Constitutional Requirements and Support Economic Activity</b> .....	<b>22</b>
	Conduct a Full, Fair, and Accurate Decennial Census .....	23
	Provide Accurate Data to Support Economic Activity .....	24
	<b>Strategic Goal 5 – Deliver Customer-Centric Service Excellence</b> .....	<b>25</b>
	Engage Commerce Employees .....	26
	Accelerate Information Technology Modernization .....	27
	Consolidate Functions for Cost Savings .....	28



# National & NOAA Priorities = Opportunities



**NOAA**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION  
UNITED STATES DEPARTMENT OF COMMERCE

1. Fully implementing the Weather Act by leading the world in Earth Observation and Prediction and minimizing the impact of Extreme Weather & Water Events in the U.S.
1. Increasing the Sustainable economic contributions of our fisheries and ocean resources.



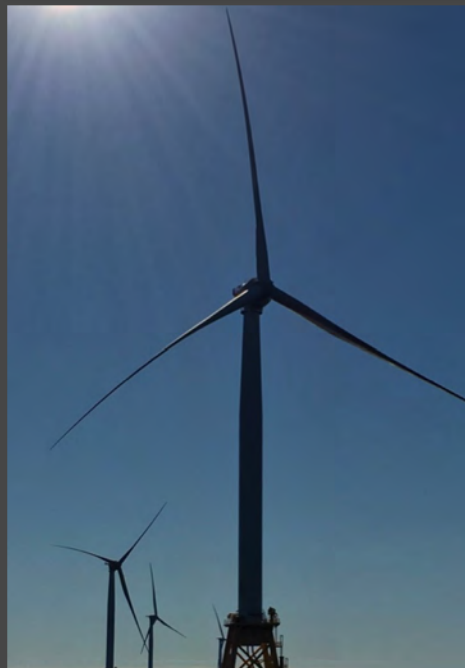
# National & NOAA Priorities = Opportunities for Sea Grant

**Healthy Coastal Ecosystems**

**Resilient Communities and Economies**

**Sustainable Fisheries and Aquaculture**

**Environmental Literacy and Workforce Development**



# Sea Grant Network Visioning

- Integrated Seafood
- Water Resources
- Climate and Weather
- Community Responses to Flooding
- Tourism
- Environmental Literacy
  
- Traditional & Local Knowledge
- Diversity and Inclusion
- Citizen Science
- Aquaculture Communications



# National Sea Grant Advisory Board

# National Sea Grant Advisory Board

- Federal Advisory Committee (FAC)
- Advises NOAA and the National Sea Grant College Program
- Address the Nation's highest priorities
- Understand and assess; develop, manage and conserve ocean, coastal and Great Lakes resources

<b>Board member</b>	<b>Location</b>	<b>Current affiliation</b>	<b>Current term ends</b>
<b>Amber Mace</b> (Chair)	Sacramento, CA	California Council on Science and Technology	2022
<b>Brian Helmuth</b> (Vice-Chair)	Marblehead, ME	Northeastern University	2019
<b>Dale Baker</b> (Past Chair)	Ithaca, NY	Cornell University	2022
<b>Peter Betzer</b>	St. Petersburg, FL	St. Petersburg Downtown Partnership	2021
<b>Patricia Birkholz</b>	Saugatuck, MI	Michigan League of Conservation Voters	2019
<b>Paulinus Chigbu</b>	Fruitland, MD	University of Maryland	2022
<b>Rosanne Fortner</b>	Oak Island, NC	Oak Island Beach Preservation Society	2022
<b>E. Gordon Grau</b>	Kaneohe, HI	University of Hawaii	2019
<b>Judy Gray</b>	Block Island, RI	Block Island Maritime Institute	2019
<b>Jim Murray</b> (Member-at-Large)	Naples, FL	National Sea Grant College Program	2019
<b>Michael Orbach</b>	Santa Cruz, CA	Duke University	2018
<b>Dick Vortmann</b>	La Jolla, CA	San Diego Regional Chamber of Commerce	2018





Amber Mace, Ph.D.



Michael Orbach, Ph.D.



Dick Vortmann



E. Gordon Grau, Ph.D.



Patricia Birkholz



Peter Betzer, Ph.D.



Jim Murray, Ph.D.



Dale Baker



Brian Helmuth, Ph.D.



Judith Gray



Paulinus Chigbu, Ph.D.



Rosanne Fortner, Ph.D.





# Sea Grant Association

## Sea Grant Association

### History

Precursor established in 1970 as the Sea Grant Council of Fellows; SGA later established as 501(c)(3) in 1987.

### Purpose

To further the optimal development, use and conservation of marine, coastal and Great Lakes resources; Increase the effectiveness of member institutions; Stimulate cooperation and unity of effort among members; Provide a forum for discussing programmatic issues and facilitating communication among members and with agencies, industry, and other interested parties.

### Membership

*“Membership shall be composed of organizations interested in furthering the Sea Grant Program concept and in furthering the purposes of the Corporation. Membership shall be limited to organizations.”*

- Organizations appoint delegates to the Association
- Currently 35 members in the Association

**Sea Grant's mission** is to enhance the practical use and conservation of coastal, marine and Great Lakes resources in order to create a sustainable economy and environment.

## **SGA Board of Directors**

**James Hurley**, Wisconsin Sea Grant (SGA President, 2017-18)

**Sylvain De Guise**, Connecticut Sea Grant (SGA Past President, 2017-18)

**Fredrika Moser**, Maryland Sea Grant (SGA President-Elect, 2017-18)

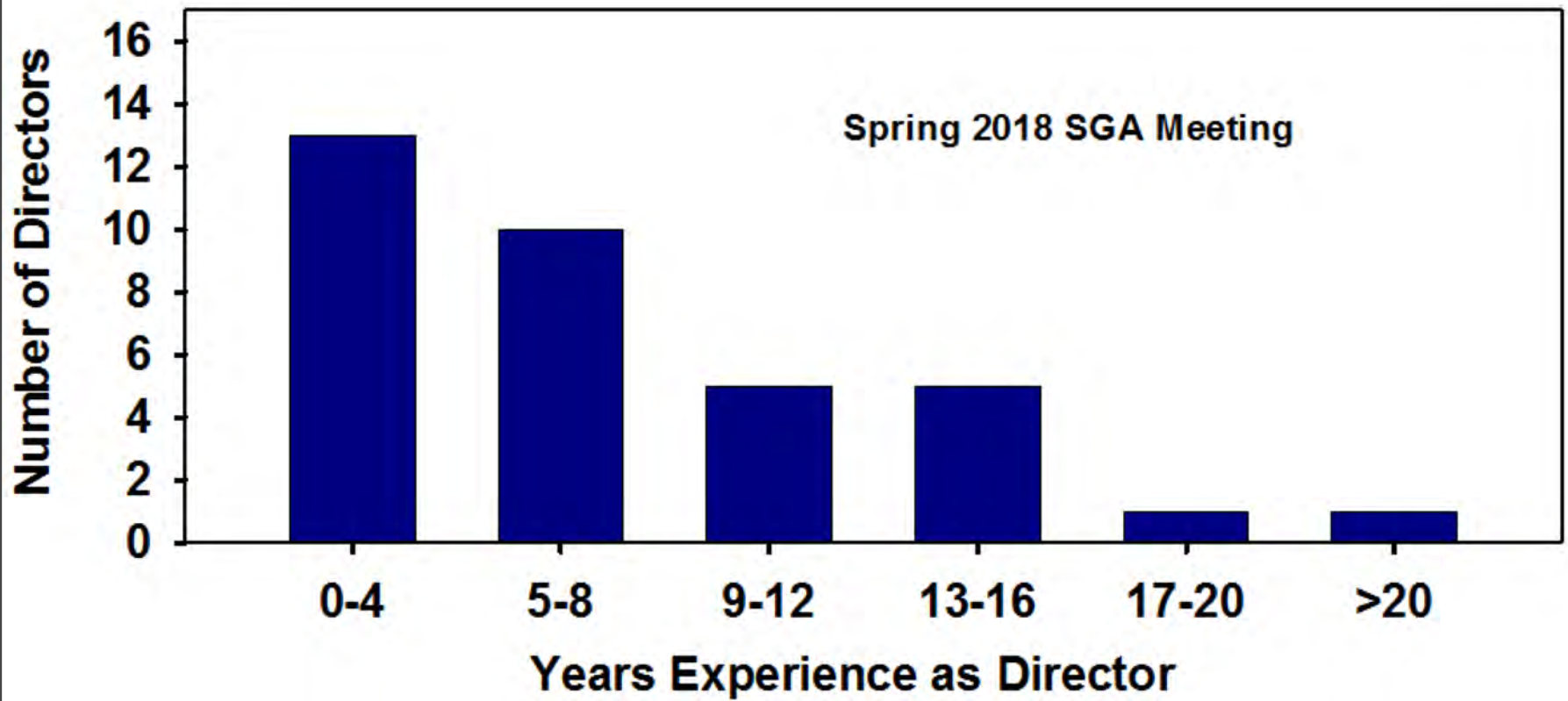
**Stephanie Showalter Otts**, Sea Grant Law Center (Program Mission Committee Chair, 2017-18)

**Christopher Winslow**, Ohio Sea Grant (Secretary, 2018-19)

**Darren Lerner**, Hawaii Sea Grant (Treasurer, 2018-19)

**Ruperto Chaparro Serrano**, Puerto Rico Sea Grant (At large member, 2017-18)

**Mark Risse**, Georgia Sea Grant (At large member, 2018-19)



## SGA Committees

**External Relations Committee** (Susan White, NC Sea Grant, chair, *ex officio*, Sea Grant Board of Directors; Darren Lerner, HI Sea Grant, Vice-chair)

“... advises and assists the president of the Corporation with issues and activities associated with government relations and with new and developing activities with foundations, industry, and nongovernmental organizations.”

Works closely with Federal Science Partners on federal relations

**Program Mission Committee** (Stephanie Showalter Otts, Sea Grant Law Center, Chair)

“... has primary responsibility for the accomplishment of the Sea Grant mission. It serves the membership through the development of ideas, documents, policies, and procedures which are then referred to the Board of Directors and the members for adoption and action.”

**Networks Advisory Council** (Nancy Balcom, Connecticut Sea Grant, Chair)

Comprised of Network leaders and the SGA leadership. “... serves its membership and the SGA through the development of ideas, documents, and recommendations from the Networks that are then referred by NAC leadership to the SGA Board and delegates for adoption and action.”

Spring 2017

# The Washington Post

Democracy Dies in Darkness

March 4, 2017

In the News Sovereign defense Whopping wolves Dentist booted Schumer-Putin Stephen Colbert Sizzler 'degree' Wrestler

**EXCLUSIVE**

## White House seeks deep cuts for NOAA, a leading climate science agency

The White House is seeking to slash the National Oceanic and Atmospheric Administration's budget by 17 percent, imposing big cuts to research and satellite programs, according to a memo obtained by The Washington Post.

By Steven Mufson, Jason Samenow and Brady Dennis

• **EPA to pull back on fuel-efficiency standards for cars, trucks in future model years**

## Despite early denials, a growing list of Trump campaign contacts with Russians haunts White House

The Trump team's early blanket denial has given way to explanations that the meetings were



Deported Mexicans arrive at Mexico City International Airport last week. About 500 expelled illegal immigrants arrive here daily. (AP)

## After decades in America, the newly deported return to a Mexico they barely recognize

As new Trump administration policies dramatically expand the pool of undocumented immigrants targeted for deportation, Mexico braces for an influx of men and women. The deportees return to face scarce job

Congress of the United States  
Washington, DC 20515

April 3, 2017

Chairman John Culberson  
Subcommittee on Commerce, Justice,  
Science, and Related Agencies  
Committee on Appropriations  
U.S. House of Representatives  
Washington, D.C. 20515

Ranking Member José Serrano  
Subcommittee on Commerce, Justice,  
Science, and Related Agencies  
Committee on Appropriations  
U.S. House of Representatives  
Washington, D.C. 20515

Dear Chairman Culberson and Ranking Member Serrano:

As you develop the Fiscal Year (FY) 2018 Commerce, Justice, Science, and Related Agencies appropriations bill, we urge your support for the National Oceanic Atmospheric Administration's (NOAA) National Sea Grant College Program—a program critically important to shoreline states throughout the country.

Across the nation, thirty-three universities participate in the National Sea Grant Program—a federal-state partnership which provides critical services to a wide range of constituents in every coastal and Great Lakes state, and U.S. territories. Sea Grant contributes to making coastal communities more resilient while also aiding our aquaculture industries in navigating federal and state regulations. In this sense, Sea Grant serves as the coastal, marine-based equivalent of Agriculture Extension programs.

With imported seafood making up 90% of American seafood consumption, our nation should be focusing on programs to expand and improve our domestic aquaculture industry. Sea Grant is a program that does just that—helping fishermen and shellfish farmers navigate a complex patchwork of state and federal coastal zone management regulations through technical assistance. Sea Grant works with local producers to grow and sustain their business models while connecting them to local resources to share best practices.

The economic impact of the Sea Grant Program highlights the benefits of this federal investment. According to the 2016 performance metrics of the program, Sea Grant contributed to creating and sustaining 20,770 jobs and 2,903 businesses. On top of business and job creation, Sea Grant logged a staggering 265,602 volunteer hours in 2016. Further, the program contributed to \$575 million in economic impact—nearly half of our nation's \$1.2 billion aquaculture economy.

The National Sea Grant Program is a proven job-creator that is highly leveraged to maximize the effectiveness of federal investment. This program serves as the primary resource for our coastal small businesses and fishing communities. We urge you to continue your support for this important program.

Sincerely,

JOE COURTNEY  
Member of Congress

LEE M. ZELDIN  
Member of Congress

ROBERT J. WITTMAN  
Member of Congress

SETH MOULTON  
Member of Congress

House Dear Colleague Letter authored Rep. Courtney (CT) and Zeldin (NY) -- was "closed out" April 3, 2017 with 95 House Member signatures with both Republican and Democrats signing.

Courtney-Zeldin "Part 2" now being circulated in House.

## FY19 Focus for SGA delegates

### Priority #1 – Submittal of Programmatic Requests to House and Senate Appropriations Subcommittees

Step 1: SGA Delegate Outreach to Key Stakeholders

Step 2: SGA Delegate Engagement

Step 3: SGA Leadership Outreach to Key Committees

### Priority #2: Dear Colleague Letters

Zeldin-Courtney – Sea Grant

Coastal partners

### Priority #3: Reauthorization Update

Senate - Passed, via unanimous consent, **S. 129**, the National Sea Grant College Program Amendments Act of 2017

House - **H.R. 4306**, the National Sea Grant College Program Amendments Act of 2017 was introduced by Rep. Jared Huffman (D-CA) and Rep. Frank LoBiondo (R-NJ)



## **NOAA Coastal Roundtable**

**SGA and the NSGO are active participants in bimonthly calls with NOS coastal partners**

- **Participated in Capitol Hill Oceans Week by sponsoring and moderating panel; Held Congressional briefing on aquaculture.**
- **Collaboration across association meetings.**
- **Worked with National Association of Marine Laboratories, IOOS Association, National Estuarine Research Reserve Association, Coastal States Organization for National Marine Sanctuary Foundation on joint testimony for Senate and House Subcommittees on Commerce, Justice, Science, and Related Agencies**

# Capitol Hill Briefings



## AQUACULTURE IN THE UNITED STATES: ENHANCING GROWTH OF THE DOMESTIC INDUSTRY

The Sea Grant Association is pleased to extend this invitation  
for a Capitol Hill Briefing:

### Aquaculture in the United States – Enhancing Growth of the Domestic Industry

Sponsored by

**Senator Roger Wicker and Senator Lisa Murkowski**

June 13, 2017  
Capitol Hill Ocean Week  
11:30AM to 1:00PM  
In Room SVC 212-10 of the Capitol Visitor Center

**Mr. Tollef Olson**  
[Ocean's Balance - Kelp Farming](#)  
Portland, Maine

**Mr. Owen Ballow**  
[Indian Brook Trout Farm](#)  
Jackson, Michigan

**Mr. Frank Roberts**  
[Lady's Island Oyster](#)  
Seabrook, South Carolina

**Ms. Jennifer Jenkins**  
[Crystal Seas Seafood](#)

**Mr. Beau Perry**  
[Blue Evolution - Seaweed Farming](#)  
San Francisco, California

See SGA's [10-Year NOAA Sea Grant Aquaculture Vision - March 2016](#)  
A brown bag lunch will be available

Space is limited for this widely attended event therefore please  
RSVP by June 9, 2017 to [jwiddler@federalsciencepartners.com](mailto:jwiddler@federalsciencepartners.com)



## The Sea Grant Association is pleased to invite you to attend a **Brown Bag Lunchtime Briefing**

### Using Science and Outreach to Assist State and Local Decision Makers in Disaster Preparedness and Public Safety

Sponsored by Representative Lee Zeldin and Representative Joe Courtney

**November 8, 2017**

Noon to 1:30 p.m.  
2045 Rayburn House Office Building

**Mr. Vern Miyagi**  
*Administrator*  
Hawaii Emergency  
Management Agency  
Honolulu, Hawaii

**Mr. Craig Butler**  
*Director*  
Ohio Environmental  
Protection Agency  
Columbus, Ohio

**Dr. Edward J. Mahaney, Jr.**  
*Principal*  
Mahaney Consulting LLC  
Mayor Emeritus, City of Cape May  
Cape May, New Jersey

**Dr. Shannon Van Zandt**  
*Professor*  
Department of Landscape  
Architecture and  
Urban Planning  
Texas A & M University  
College Station, Texas

This is a widely attended event.  
Space is limited.

RSVP by November 3, 2017 to [JoelWidder@federalsciencepartners.com](mailto:JoelWidder@federalsciencepartners.com)

The National Sea Grant College Program (Sea Grant) is a joint federal-state investment that supports the health and resilience of the nation's coastal communities (including the Great Lakes, Gulf of Mexico and communities on the Atlantic and Pacific coastal). In FY 2015-16, Sea Grant helped generate an estimated \$576 million in economic impacts; created or sustained nearly 21,000 jobs; provided 534 communities with technical assistance on sustainable development practices; worked with about 1,300 industry, local, state and regional partners; and supported the education and training of almost 2,000 undergraduate and graduate students, yielding quantifiable economic, social, and environmental benefits at the national, regional, state, and local levels. James Hurley is the current Sea Grant Association president, [phurley@wisc.edu](mailto:phurley@wisc.edu).

Sea Grant Association  
[sga.seagrant.org](http://sga.seagrant.org)



# Sea Grant Regional Associations

## Sea Grant Regions

Great Lakes  
Northeast  
Mid Atlantic  
Southeast  
Gulf of Mexico  
Pacific and Islands

## NOAA Regions



Regional networks meet regularly (most staff, not just directors)  
Regions submit collaborative projects  
Sea Grant regions work with NOAA Regional teams

# Discussion

