NOAA's Teacher at Sea Program







TAS '22 Jordan Findley





Hometown: Tierra Verde, Florida

Position: Informal educator at Tampa Bay Watch

Ship: NOAA Ship *Pisces*

Survey: SEAMAP Reef Fish Survey

Ports: Galveston, TX to Pascagoula, MS

"I can't express enough how grateful I am to have been selected for the NOAA Teacher at Sea Program and be a part of its mission. The experience was so much more than I could have even imagined.

Participating in the research was so rewarding, and offered valuable insight into fisheries research and scientific operations... Continuous learning is what enhances our understanding of the world around us, in so many ways, and why I love what I do."

- TAS '22 Jordan Findley



TAS '22 Oktay Ince





Hometown: Beavercreek, OH

Position: Assistant Principal of Academics at

Horizon Science Academy

Ship: NOAA Ship *Thomas Jefferson*

Survey: Hydrographic survey of Lake Erie

Ports: Cleveland, OH

"I loved every bit of my time while at sea. The ship crew was awesome and welcomed me as part of their team. They taught me many things in my short time and I started to do many tasks on my own. I can't wait to share all the things I learned with my students and colleagues."

- TAS '22 Oktay Ince



TAS '22 Laura Grimm





Hometown: Dalton, OH

Position: K-8th STEAM teacher at

Dalton Local Schools

Ship: NOAA Ship *Thomas Jefferson*

Survey: Hydrographic survey of Lake Erie

Ports: Cleveland, OH

"My landlocked world has been cracked open.

I now have knowledge of so many more resources, data and careers. I want to share them with my students and with the community. I am excited to develop new lessons and to incorporate that which I have learned in to lessons already established."

- TAS '22 Laura Grimm



TAS '22 George Hademenos





Hometown: Richardson, TX

Position: Physics teacher at

Richardson High School

Ship: R/V *Tommy Munro*

Survey: SEAMAP Summer Groundfish Survey

Ports: Biloxi, MS

"As an educator interested in any and all things science, I would always look forward to the end of the sampling process and the emptying of the nets to survey our catch — a grab bag of a variety of different types of marine life and species. I had seen images of several types of marine life contained within the nets and recognized even fewer numbers by their name, but again this was an opportunity to learn and every sampling increased my library of marine science knowledge."

— TAS '22 George Hademenos



TAS 22 Michael Gutiérrez Santiago





Hometown: Isabela, Puerto Rico

Position: Environmental science teacher at

Abelardo Martinez Otero High School

Ship: NOAA Ship *Bell M. Shimada*

Survey: Hake Survey

Ports: Seattle, WA to Newport, OR

"The crew has been excellent, all with a kind and respectful treatment towards me... In just a few days of meeting them, they have taught me a lot. They have all been patient and have explained and answered questions regarding the work they do on the high seas. Their knowledge and experiences have led me to create great admiration for them."

- TAS '22 Michael Gutiérrez Santiago



TAS '22 Maronda Hastie





Hometown: Stone Mountain, GA

Position: Math teacher at

Dr. Ronald E. McNair High School

Ship: NOAA Ship *Oregon II*

Survey: Shark/Snapper Longline Survey

Ports: Port Canaveral, FL, to Pascagoula, MS

"I loved learning the process of catching the different types of fish and all the research that happens. The atmosphere was welcoming and fun while I learned and felt safe. The experience was amazing, and I love answering questions about my pictures and videos. This program is highly motivating and I want to expose my students to similar opportunities."

- TAS '22 Maronda Hastie



A New Frontier for NOAA's Teachers at Sea



Re-charted waters: NOAA ship to use sonar to map the bottom of Lake Erie

It's the first trip to the Great Lakes since 1990

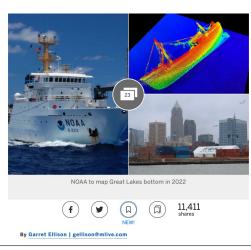




Posted at 2:10 PM. Jun 10, 2022 and last undated 6:55 PM. Jun 10, 2022

On first mission to Great Lakes, NOAA ship will sonar map Lake Erie

Updated: Feb. 24, 2022, 12:03 p.m. | Published: Feb. 24, 2022, 11:56 a.m





In 2022, Teacher at Sea Program had the historic opportunity to sail teachers on a Great Lake. NOAA Ship *Thomas Jefferson* traversed the St. Lawrence Seaway to survey the bed of Lake Erie, marking the first visit of a large NOAA survey vessel to a Great Lake since NOAA Ship *Whiting* surveyed Lake Huron in 1990.



Field Trip to a NOAA Ship: TAS Laura Grimm's Students



September 10, 2022





In early September, TAS '22 **Laura Grimm** brought 23 students from Dalton Local Schools, in **Dalton**, **Ohio**, to visit NOAA Ship *Thomas Jefferson* at the Port of Cleveland. Ensign Forrest Foxen hosted the tour as Officer on Duty.



Field Trip to a NOAA Ship: TAS Oktay Ince's Students



September 11, 2022







The next day, TAS '22 **Oktay Ince** brought 23 students from Horizon Science Academy Columbus High School, in **Columbus, Ohio**, to visit NOAA Ship *Thomas Jefferson*. Ensign John Brostowski hosted the tour as Officer on Duty.





Teacher at Sea Alumní Association





Photo by Ryan Hawk

The Teacher at Sea Alumni
Association (TASAA) provides
valuable networking
opportunities and high-quality
professional development
experiences for alumni of NOAA's
Teacher at Sea Program. TASAA
extends the benefits of program
participation throughout
teachers' careers, and in doing so,
offers them the opportunity to
become dedicated ambassadors
for NOAA's work and mission.



The Teacher at Sea Alumni Association is supported through a partnership with the National Marine Sanctuary Foundation.



TASAA 2022: Navigating Science with Art



In 2022, TASAA took on the theme of **art and science integration** to celebrate the ways that our educators use the arts to engage their students and communities in the content and concepts that are important to a science literate society.



The theme included a series of guest blog posts by written TAS alumni. Read intro here: https://teacheratsealumni.org/blog/navigating-science-with-art/



Navigating Science with Art: April: TAS Laura Guertin



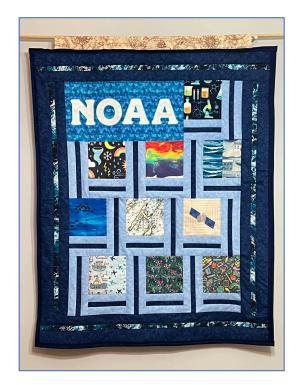
TAS '14 Laura Guertin: Sharing Stories of the Louisiana Coast through Quilts

Read Laura's blog post here:

https://teacheratseaalumni.org/blog/sharing-stories-of-the-louisiana-coast-through-quilts/



"Quilting has become a passion and tool that I use for science communication and education. The quilts have been a success with scientists and non-scientists alike. I have found that people enjoy coming up and looking at a quilt, because everyone has their own quilt story!"





Navigating Science with Art: May: TAS Cristina Veresan



TAS '15 Cristina Veresan: Sci-Art Lesson Share: Illustrated Graphs



"I highly recommend this climate data art project for upper elementary and secondary students...
One of the central aims of my science

curriculum is to empower students as science communicators; I want them to share accurate scientific information in creative ways."

Read Cristina's blog post here:

https://teacheratseaalumni.org/blog
/sci-art-lesson-share-illustratedgraphs/



Navigating Science with Art: October: TAS Denise Harrington



TAS '14/16 **Denise Harrington**: Finding Free Gifts in Nature through Journaling

"Equal parts science and art,
journals are a first step for
students to become stewards of
the place in which they live. By
observing and documenting the
plants, animals, and features,
they understand it better...
Through deep knowledge comes
appreciation, and ultimately a
desire to protect the
environment in which we live."



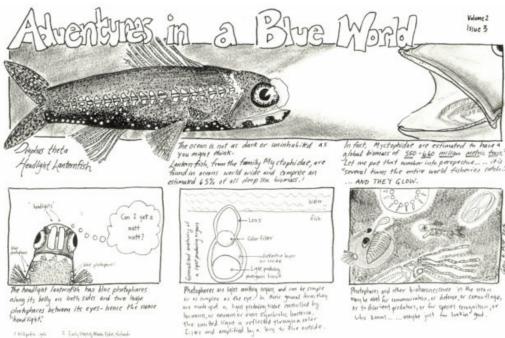


Navigating Science with Art: November: TAS Cat Prenot



TAS '11/16 Cat Prenot: Connecting through Cartoons





"Just as I use cartoons to help my students understand complex topics, students can make their own cartoons to create meaning. Cartoons don't have to be intricate to communicate ideas." Read Cat's blog post here:

https://teacheratseaalumni.or g/blog/connecting-throughcartoons



New England Teacher at Sea Alumní Meeting

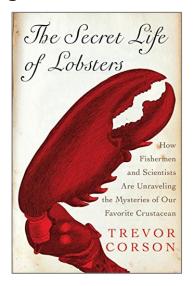


March 12, 2022



Next Step: New England TASA
 Book Club discussion of *The* Secret Life of Lobsters by Trevor
 Corson to follow in 2023

- Attendees: 7 TAS alumni from 6 northeast states
- Agenda: Introductions, small group discussions, virtual science museum scavenger hunt





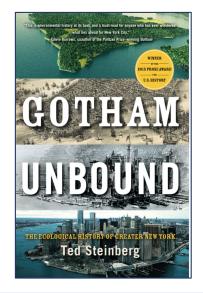
Trí-State Teacher at Sea Alumní Meeting



April 23, 2022



- Attendees: 6 TAS alumni from New York, New Jersey, Pennsylvania
- Agenda: Introductions, small group discussions, virtual science museum scavenger hunt
- Next Step: Tri-State TASA
 Book Club discussion of
 Gotham Unbound by Ted
 Steinberg to follow in 2023



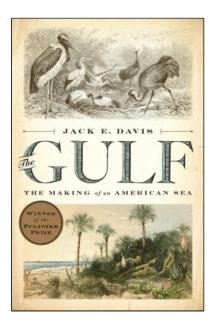


Gulf of Mexico Teacher at Sea Alumní Book Club



April 4 – May 16, 2022

- 6 alumni and staff participants from Gulf states
- Discussed The Gulf: The Making of an American Sea by Jack E. Davis in parts over 5 meetings
- Discussion moderated by Arkansasbased TAS alumna
- Opportunity to share regional perspectives, expertise, resources











Pacífic Southwest Teacher at Sea Alumní Book Club



October 6 – December 1, 2022



- 18 alumni and staff participants from CA, NV, AZ, CO, other regions
- Discussed Where the Water Goes by David Owen over 5 meetings
- Discussion moderated by two California-based TAS alumni
- Opportunity to share regional perspectives, expertise, resources
- Book club playlist!





Book Club Impacts





TAS '02 Jennifer McDonald from California co-moderated the Southwest TASA Book Club discussion of Where the Water Goes.

"I enjoyed each and every meeting and ALL the fantastic resources that everyone shared...This was just what I needed this semester, enrichment for my own continuing education/lifelong learning about the world and that amazing kind of energy that comes from discussion and exchange with people who enjoy the same. The conversation every time was nourishment for my book-loving, curious mind."

- TAS '02 Jennifer McDonald



Introducing the TASAA Project ROVe: Remotely Operated Vehicles for educators





TAS Andrea Schmuttermair TASAA ROV Education Coordinator

Following her TASAA Fellowship,
Andrea transitioned to the role
of ROV Education Coordinator
and developed her independent
project into a year of ROV
professional development
courses for TAS alumni, named
Project ROVe.



Oh, the Places We Rove: Andrea's journey into the world of ROVs https://teacheratseaalumni.org/blog/oh-the-places-we-rove



Project ROVe: Introduction to ROVs, Cohort 1



January – June 2022

Project ROVe: Introduction to ROVs

- 15 participants (2 applied for graduate credit)
- Monthly virtual meetings
- Course materials shipped to each participant
- Readings, hands-on activities, guest speakers, competitions

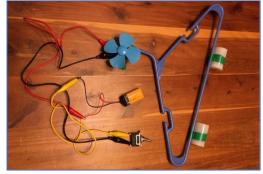
Blog: Project ROVe: Exploring

New Depths with ROVs

https://teacheratseaalumni.org

/blog/project-rove









Project ROVe: Design and Build Workshop



July 19–21, 2022

Project ROVe: Design and Build In-Person Workshop



Watch a video about the Design and Build workshop: https://vimeo.com/777447176/5172c717a0

- Held at Mariners' Museum and Park, Newport News, VA
- 10 participants
- Alumni worked in teams to build MATE Pufferfish ROVs
- Alumni shared plans for classroom implementation



Project ROVe: Introduction to ROVs, Cohort 2



September 2022 – February 2023

Project ROVe: Introduction to ROVs

- 15 participants (including 1 non-alum from American Samoa NOAA Ed/Outreach)
- Monthly virtual meetings
- Course materials shipped to each participant
- Readings, hands-on activities, guest speakers, competitions
- Virtual mixers with Cohort 1







Project ROVe Impacts





TAS '15 Jeff Miller solders a circuit board.

Photo by Ryan Hawk

"It's great being able to spend time with other teachers who have a passion for similar things...especially this group, because we've all shared the Teacher at Sea experience, and so we have that camaraderie already built in. Then you bring people from all over the country to do something that they like, and they want to bring it back and engage their students, it's just a fabulous experience."

- TAS '15 Jeff Miller



Teacher at Sea Alumní Association NOAA Fellowship: Year 2





TAS Denise Harrington

TAS '14 NOAA Ship Rainier, TASA '16 NOAA Ship Oregon II

- Consulted on several education-related projects submitted by NOAA offices and programs
- Supported alumni activities and communications
- Developed independent projects and partnerships focused on marine debris and art, including a virtual workshop for TASA on creating wreaths from derelict crab lines

Meet Denise:

https://teacheratseaalumni.org/2022/05/1 2/tasa-denise-harrington-to-serve-astasaa-noaa-fellow-for-2022-23-school-year/



Closing out A Successful Year with the TASAA Repurposed Rope Wreath Holiday Party



December 15, 2022



In December, TASAA NOAA Fellow **Denise Harrington** hosted a virtual workshop on creating holiday wreaths from repurposed rope, such as the derelict crab lines she finds on the Oregon coast. The Association raffled off eight kits of salvaged rope to interested alumni.

Blog with instructions:

https://teacheratseaalum ni.org/blog/repurposedrope-wreaths/

