VIMS Marine Science Day 2021 Schedule

Time	Topic	Description
10:00-10:10 AM	Welcome to VIMS Marine Science Day	Learn more about the Virginia Institute of Marine Science and the many activities taking place during Marine Science Day in this quick overview.
10:15-10:40 AM	An Intro to Scientific Illustration with Val Kells, Scientific Illustrator	World-renowned scientific illustrator Val Kells will show you how to professionally draw a special marine organism. With over 30 years of experience, Val has an impressive portfolio and has worked on a variety of projects - from field guides to museum exhibits. Q&A session with Val will follow the lesson!
	Disease in Striped Bass: Understanding Mycobacteriosis	Mycobacteriosis has long been a baffling disease affecting striped bass populations in the Chesapeake Bay. Join VIMS scientist Jameson Gregg and ODU graduate student Josh McGilly as they describe how they are teaming up to learn more about the disease's effect on striped bass populations and how their research may help inform management decisions. Short presentation followed by Q&A session with Jameson and Josh.
10:45-11:10 AM	Gyotaku: The Art of Fish Printing	Gyotaku, or fish printing, was first known to have originated in Japan in the mid-1800s as a way to document catches. It has evolved into a beautiful art form and a valuable way to study fish anatomy. Carol Hopper-Brill, a former marine educator at VIMS, will show us how to create fish prints at home and explain what we can learn about fish by studying their anatomy.
	Microplastics and our Environment	VIMS graduate students Meredith Evans Seeley and Ashley King will walk us through the complex story of microplastics in the ocean and how their research is helping to understand the impact plastics have on the marine environment. Short presentation followed by Q&A session with Meredith and Ashley.
11:15-11:40 AM	All Drains Lead to the Ocean: A Watershed Demonstration	What is a watershed? How does human activity on land affect bodies of water? Learn the answers to these questions and more as Tara Rudo, Marine Education Specialist with CBNERR-VA, demonstrates how pollutants from the land can make their way into our waterways and ocean, even if those pollutants originate hundreds of miles away from the water.
	Fish On! VIMS Research Informs Recreational Fisheries	Join VIMS scientists Susanna Musick and Troy Tuckey as they explain how data collected at VIMS, through programs like the Virginia Game Fish Tagging Program and Juvenile Fish and Blue Crab Trawl Survey, are used to inform management of recreationally important fishes. Short presentation followed by Q&A session with Susanna and Troy.
11:45-12:10 PM	Cooking Demonstration: Golden Tilefish Fish Tacos	Join Chef Win Goodier as he shows us how to create delicious fish tacos using this sustainably sourced fish.
	Marine Life Drawing Lesson for Beginners	Follow along as Katie Shelton, Conservation Intern with CBNERR-VA and drawing enthusiast, shows us how to draw a basic seahorse.
12:15-12:40 PM	Careers in Marine Science	Tara Rudo, Marine Education Specialist with CBNERR-VA, will take you through the many career fields that go hand-in-hand with marine science. Joining her after the short presentation are 4 marine scientists with a broad range of experience. Don't miss the chance to ask these scientists questions during the Q&A session!
	The Science of Offshore Wind	Join Mark Luckenbach, VIMS Associate Dean of Research and Advisory Service, and Darrell Shier, Environmental Manager with Dominion Energy, as they discuss the science of offshore wind and how research, like that conducted at VIMS, is used to advise on the development of this energy source. Short presentation followed by Q&A session.
12:45-1:10 PM	Beach Seining Adventure	Come along as we go on an adventure! Join Tara Rudo, Marine Education Specialsit with CBNERR-VA, as she demonstrates beach seining and teaches us about fishes and other animals that inhabit the Chesapeake Bay. This session includes two short videos followed by a Q&A session with Tara.
	Ocean Acidification and Oysters	Ocean Acidification, the lowering of the ocean's pH due to increased carbon dioxide levels, poses challenges to many marine plants and animals, including oysters. A team of researchers at VIMS, including PhD student Fei Da, is working collaboratively to better understand ocean acidification, how it impacts oysters, and what those impacts might mean for the aquaculture industry, watermen, and oyster restoration. Join Fei for an overview of ocean acidification and his team’s important research. Short presentation followed by Q&A session.
1:15-1:40 PM	Inside the School of Marine Science at VIMS	VIMS is home to William & Mary’s School of Marine Science, which is one of the largest marine science graduate programs in the U.S. VIMS provides students with an unparalleled education, the opportunity to perform ground breaking research, and training that prepares them to serve as leaders in their field. In this session, admissions staff and current graduate students will give you inside access to the education programs offered at VIMS. Bring your questions for the live Q&A session!
	Ghost Forests	Ghost forests consist of dead trees adjacent to marshes, and are a striking feature indicative of sea level rise. Recent research conducted by Dr. Matt Kirwan at VIMS has shown that ghost forests are widespread, ecologically and economically important, and globally relevant to the survival of coastal wetlands. Join us as Grace Molino, a PhD student in Dr. Kirwan's lab, helps us understand the cause of ghost forests and what they can tell us about our changing coastlines. Short presentation followed by Q&A.
1:45-2:10 PM	Tour of the R/V Virginia	Follow along as we tour VIMS' flagship vessel, the R/V Virginia. You'll get an inside look at the state-of-the-art vessel and hear from captain and crew.
	Coastal Resilience: Forecasting Tidal Flooding and Storm Surge	Many coastal communities around the world are experiencing increased tidal flooding and storm surge due to rising sea levels. Join Dr. Derek Loftis to learn about the innovative approaches VIMS researchers are taking to predict flooding and how that information is being used to help coastal communities plan and prepare. Short presentation followed by Q&A.
2:15-2:40 PM	Coastal Resilience: Helping Communities Adapt to Rising Waters	Rising sea levels require individuals and coastal communities to think differently about how they live, work, and play along the coast. Join VIMS scientist Pam Mason as she explains the tools and resources VIMS has developed to help communities adapt to and plan for coastal change. Short presentation followed by Q&A.
	Innovative Solutions for Polluntant Detection	Tune in to this short presentation and Q&A session to learn about a truly innovative approach developed at VIMS to detect environmental contaminants. Professor Mike Unger will walk us through his team's work to develop antibodies that can detect a variety of pollutants and the cutting-edge equipment that allows this to be done in minutes.
2:40-3:00 PM	Art and Costume Contest Awards Ceremony	Tune in to see who won the Marine Life Costume Contest and the Marine Science Day Art Contest!