

COMING SOON:

UNSEEN OCEANS

Opens Monday, March 12
LeFrak Gallery, Fourth Floor

Embark on a journey that takes you from the oceans' sunlit surface to inky depths to discover the latest ocean science and meet the researchers and technologies powering exploration today.

In *Unseen Oceans*, explore a range of marine ecosystems and meet a new generation of scientists who are using cutting-edge research tools and developing new methods to explore the oceans top to bottom. With the use of 21st-century technologies like robotics, satellite monitoring, miniaturization, and high-definition imaging, researchers are revealing the unseen habits of the oceans' most mysterious animals and mapping remote, inhospitable habitats in unprecedented detail.

The Milstein Science Series is proudly sponsored by the Irma and Paul Milstein Family.

This program is made possible by OceanX, an initiative of the Dalio Foundation, as part of its generous support of the special exhibition Unseen Oceans and its related educational activities and public programs.

Ocean Rift is brought to you by Picselica.

Gear VR headsets provided courtesy of Samsung.

Cover image © Image courtesy of NOAA Okeanos Explorer Program, INDEX-SATAL 2010

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LEARN MORE ABOUT OCEANS AT
AMNH.ORG/MILSTEIN

AMERICAN MUSEUM OF NATURAL HISTORY

Milstein Science Series

DISCOVERY UNDER THE BLUE WHALE



Ocean Technology

Sunday, February 25 | Milstein Hall of Ocean Life

WHAT'S THE OCEAN COMMOTION?

Current underwater technology allows us to explore the ocean beyond our wildest imaginations. Advanced devices such as submersibles, robotics, and sensors enable scientists to descend to depths unfit for divers, quickly transmit data, and collect samples of unexplored ecosystems. Learn more about the explorers and equipment that make today's investigations possible.



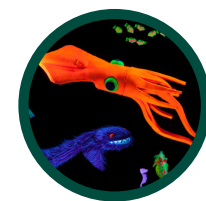
Meet the Experts Noon and 2:30 pm

Join scientists **Mercer Brugler**, **Beth Orcutt**, and **Fritz Stahr** as they share stories of deep-sea research and the technologies used to make these explorations possible. Q&A moderated by Curator **Mark Siddall**.

The Scientist Is In 12:30 and 3 pm

Interact with experts one-on-one and learn about their most recent underwater findings.

MAIN STAGE PROGRAM



Blacklight Puppet Performance 11 am and 4 pm

Professor Nautilus, inventor and marine biologist, has designed an ingenious contraption that allows her to explore the ocean depths. Make a splash with Professor Nautilus and **Spyglass Theater** during a special puppet performance of "S.C.U.B.A. (Super Cool Underwater Blacklight Adventure)."



Live Sea-to-Shore Broadcast 1:30 and 3:30 pm

Through a live video feed, interact with international geologists, biologists, and engineers onboard the JOIDES Resolution (JR) research vessel and take a tour of the ship, which is currently conducting studies off the Ross Sea ice shelf in Antarctica.



EXPLORATION STATIONS

Noon–4 pm
Look at Museum collections, talk with scientists, and engage in hands-on activities.

MILSTEIN HALL OF OCEAN LIFE

Tag, You're It!

Scientists use satellite tagging and buoy technology to better locate species and study their behaviors. Practice gathering data from tagged sharks with the **New York Aquarium**. Also view an acoustic buoy used to gather whale sounds and make some electronic whale songs of your own.



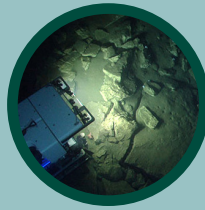
Virtual Ocean

Unleash your inner aquanaut and discover a vivid underwater world full of life with the immersive experience *Ocean Rift*. View microscopic specimens in three dimensions with the **Jaffe Laboratory for Underwater Imaging**.



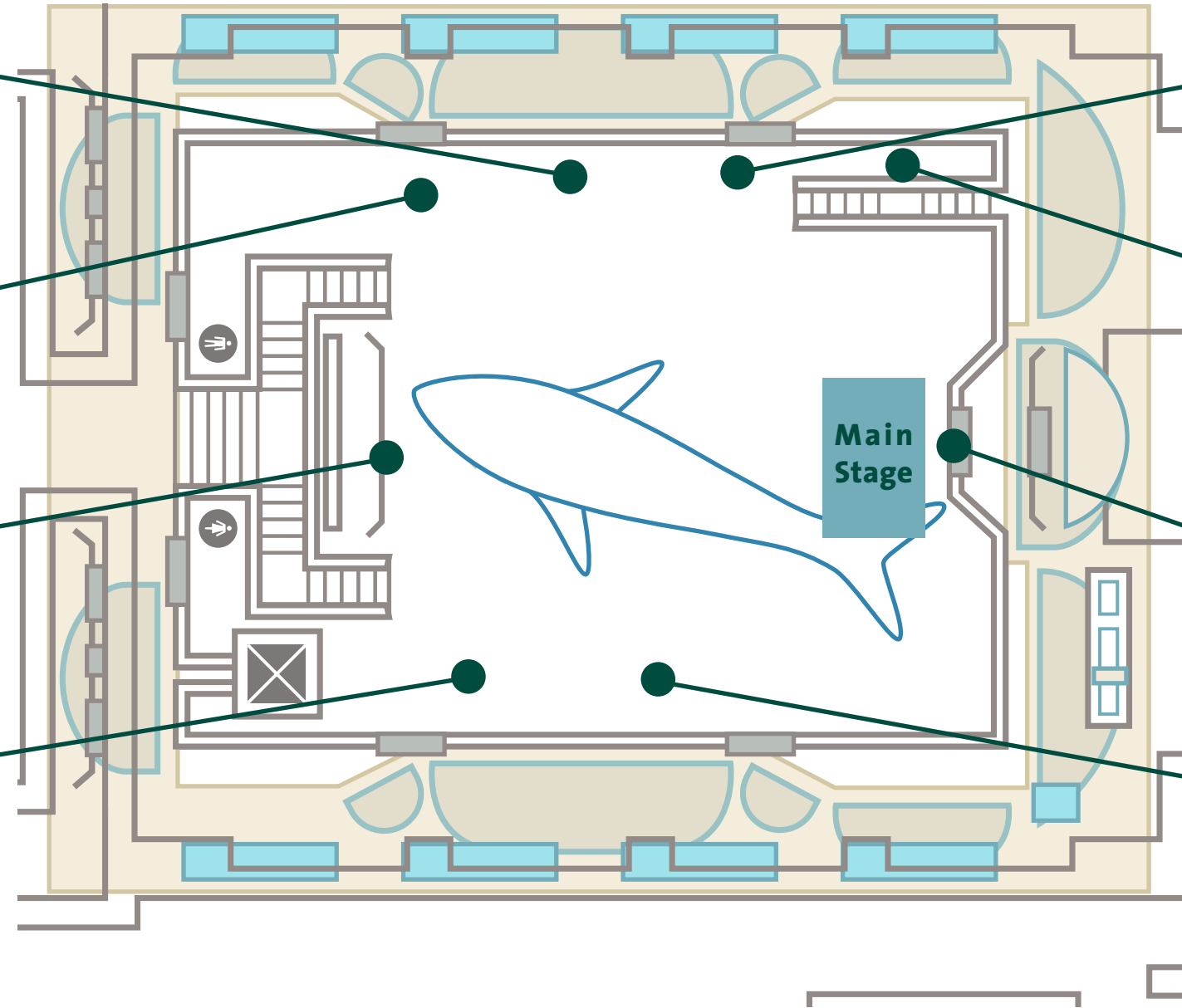
Rover Raceway

In this hands-on game, emulate the steps scientists take to conduct ocean research. Try on ocean gear, drive rovers through obstacles, race to collect specimens, and examine data back at the lab.



Underwater Robots

Extreme conditions have challenged engineers to develop technologies capable of reaching the oceans' greatest depths. Check out the newest and coolest underwater technologies and even operate your own mobile robots designed for work in aquatic environments with **Aquaai, New York Harbor School, and PVC ROV**.



Deep Ocean Discovery

From sampling the oceans' floor, we gain insights into what secrets lie deep beneath the sea. Explore how scientific ocean drilling provides a window into Earth's past, present, and future with the **International Ocean Discovery Program (IODP)**.

Ocean Tech Tales

Children's author **Kevin Kurtz** and librarians from the **New York Public Library** tell stories of ocean technology and exploration. Visit the reading corner to relax in the stacks, borrow books, and sign up for a library card.



Storytelling times:

11:45 am, 1 pm, and 3:15 pm.

Coral Reef

Blacklight Puppet Performance:
11 am and 4 pm

Meet the Experts: Noon and 2:30 pm

Live Sea-to-Shore Broadcast:
1:30 pm and 3:30 pm



Let it Glow

Most of the deep sea is very dark, with little or no sunlight. But that doesn't mean marine animals are not colorful! Create your own bioluminescent creature with **Spyglass Theater** and watch it glow under blacklight.

