



Scripps
Oceanography
is the global leader
in understanding
and protecting
the planet.

SCRIPPS INSTITUTION OF OCEANOGRAPHY, UC SAN DIEGO

As our environment enters a time of dramatic upheaval, individuals and communities recognize the need for solutions as grand as their challenges. At Scripps Institution of Oceanography at UC San Diego, experts in all disciplines of earth, ocean, and atmospheric science are building bridges to a better future every day. We train new generations of practitioners, cross the world to measure our planetary health, and help develop solutions that are vital to a prosperous natural world.

Because we rely on clean air and abundant water, Scripps matters.

Because we need more efficient, renewable energy, Scripps matters.

Because the challenges of a changing climate continue to evolve, Scripps matters.

In a time of questions, Scripps Institution of Oceanography has the experience and capacity to find solutions. The journey goes on.

CREATING SOLUTIONS TO URGENT ENVIRONMENTAL PROBLEMS



OBSERVING AND PROTECTING



Join us

YOUR SUPPORT MATTERS

The future doesn't depend on one of us or even some of us — it depends on all of us. You matter because we can't do it without you.

Since its founding more than a century ago, Scripps Institution of Oceanography has relied on private gifts and grants to sustain its scientific excellence and its outstanding students. New support means more than ever. In recent years, generous philanthropic partners have funded:

- Collaborative research initiatives
- Graduate student fellowships
- Postdoctoral fellowships
- Undergraduate scholarships
- Career development awards for early career scientists
- Endowed faculty chairs in climate change, marine biodiversity and conservation, and natural history
- Targeted research on coral reef restoration, ocean pollution, fisheries, the California Current, climate change, and more
- The Robert Paine Scripps Forum for Science, Society and the Environment (Scripps Seaside Forum)
- Scripps Oceanographic Collections sponsorships
- Expansion and renewal of Scripps's internationally renowned fleet
- Conservation and education initiatives for Birch Aquarium at Scripps

By making your gift to programs at Scripps Institution of Oceanography and Birch Aquarium at Scripps, you play an essential and active part in promoting the health of our planet. You affirm that new knowledge from our oceans and atmosphere is crucial to improving human health and protecting the creatures who share our terrestrial home. You help us assure our children's futures. You take the next step.



UNDERSTANDING AND PROTECTING OUR PLANET

The drama of our planet's future is playing out in front of us. Scripps matters because we have the people and technology to chart the best path forward.

Scientific discovery at Scripps has taken on new urgency. The measure of climate change articulated by Scripps researcher Charles Keeling 50 years ago indicates that as a result of global warming catalyzed by excess carbon dioxide in the atmosphere, humankind faces massive changes in weather patterns, sea levels, ocean acidity, and oxygenation.

Environmental leaders at Scripps include many members of the Nobel Prize-winning Intergovernmental Panel on Climate Change (IPCC), the international authority on climate change and its effects.



Climate Change Impacts and Adaptation

As already seen in events like Superstorm Sandy and record-breaking droughts, climate change is in motion. If societies do not respond, their populations face water and food shortages, and severe economic disruptions. Countless plant and animal species will be at risk.

The Center for Climate Change Impacts and Adaptation at Scripps Oceanography leverages the expertise of subject-matter experts in marine and atmospheric science; leaders in policy, sociology, and economics; and key representatives at all levels of government. This dynamic network will develop strategies for climate change adaptation based on top-tier science and a thorough understanding of community needs.

Energy Alternatives

Scripps researchers are working with corporate partners to develop clean and renewable biofuels from marine algae to replace fossil fuels for jet aircraft and other modes of transportation. Algae can create energy more effectively and efficiently than crop-based fuels—with less need for fresh water.



“Answering the many challenges we face as a society and a planet, Scripps Institution of Oceanography creates real-world solutions through our expertise in exploration and discovery. We invite you to join us as our journey continues.”

—Dr. MARGARET LEINEN
DIRECTOR,
SCRIPPS INSTITUTION OF
OCEANOGRAPHY, UC SAN DIEGO



LEGACY OF EXCELLENCE

The work taking place at Scripps right now is steeped in a tradition of continued excellence. Scripps matters because we continue to be one of the world's foremost leaders in understanding how our planet works.

The search for knowledge at Scripps Institution of Oceanography at UC San Diego continues a century-plus mission to explore and understand the oceans, land, and atmosphere. Scripps Oceanography was founded in 1903 and became part of the University of California in 1912, originally named Scripps Institution for Biological Research in recognition of the support of the Scripps family. As one of the world's most important centers for ocean, earth, and climate science, the work done at Scripps today is vital to constructing strategies our planet needs to solve immense environmental challenges. Research, education, and outreach programs at Scripps benefit from its premium location and curation of the world's largest oceanographic collection. Scripps scientists sail to tropical islands and venture under polar ice, tracking the rhythms of our ever-changing planet.



PIONEERING DISCOVERY

Collaboration has long been at the heart of Scripps' research. Scripps matters because our work crosses institutional and subject boundaries to bring together the best minds in solving our biggest challenges. Members of Scripps Oceanography faculty balance whole-earth exploration with society's driving need to make use of that knowledge as quickly and effectively as possible.

Human Health and the Ocean

Scripps researchers are pioneering the use of drugs from the sea to combat cancer, autoimmune diseases, and infectious diseases. Several Scripps-discovered marine compounds are now in clinical trials. A special focus is on the development of new antibiotics from marine microbes to help battle drug-resistant infections.

Robotic Exploration

Scripps scientists are experts in conceptualizing, designing, and building robots for use in ocean discovery and exploration. These unmanned floats and gliders take measurements of the ocean's "vital signs," such as temperature, salinity, and current velocity.

Observing the Planet, Visualizing the World

In partnership with network and computer science engineers, Scripps scientists are developing artificial intelligence tools to rapidly automate the classification of millions of photos from expeditions around the world. To better navigate the ocean's peaks and valleys, a Scripps team is creating a comprehensive digital map of the planet's ocean floors.

"When I first chose the project to investigate the fate of chlorofluorocarbons in the atmosphere, it was simply out of scientific curiosity. I am heartened and humbled that I was able to do something that not only contributed to our understanding of atmospheric chemistry, but also had a profound impact on the global environment."

**—DR. MARIO J. MOLINA
1995 NOBEL PRIZE WINNER
PROFESSOR OF CHEMISTRY,
UC SAN DIEGO AND SCRIPPS
INSTITUTION OF OCEANOGRAPHY**



BRIDGES BEYOND

We recognize that our research only reaches as far as the communities who put it to work. Scripps matters because we give all people, from government leaders to aspiring minds, the data they need to make informed choices.

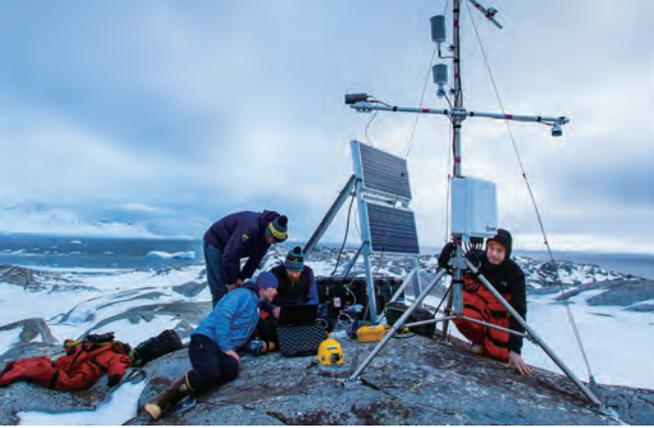
Sharing Scripps discoveries is vital to assuring that citizens of our global community understand the world they live in and their role in sustaining its health. Scripps provides decision-makers with the knowledge they need to understand our changing world and to determine effective solutions.

Birch Aquarium at Scripps

From Scripps Oceanography's earliest years, exhibits of marine specimens for visiting members of the public have been central to its mission. These early exhibits later evolved into a full aquarium, re-imagined and greatly expanded into the site of today's Birch Aquarium at Scripps Institution of Oceanography.

Birch Aquarium at Scripps promotes ocean conservation and ocean science education through interactive exhibits and outreach programs that creatively interpret the groundbreaking research of Scripps Institution of Oceanography scientists and researchers. Hundreds of thousands of visitors every year enter this portal to the oceanic world, which showcases the wonders and adventure that are found just offshore.





TRAINING THE NEXT GENERATION OF ENVIRONMENTAL LEADERS

Tomorrow's breakthroughs will be made by today's students. Scripps matters because we equip these students with the tools and opportunities they need to thrive.

An education from Scripps Institution of Oceanography places graduates among an esteemed group of scientific professionals, and within a network of illustrious Scripps alumni around the world. Students from a variety of scientific disciplines participate in Scripps's undergraduate, master's, and doctoral programs.

Scripps students learn the principles of oceanography, marine biology, earth sciences, and climate science from faculty at the leading edge of discovery. Valuable fellowship support provides students with access to research vessels, as well as opportunities to conduct fieldwork in locations across the globe.

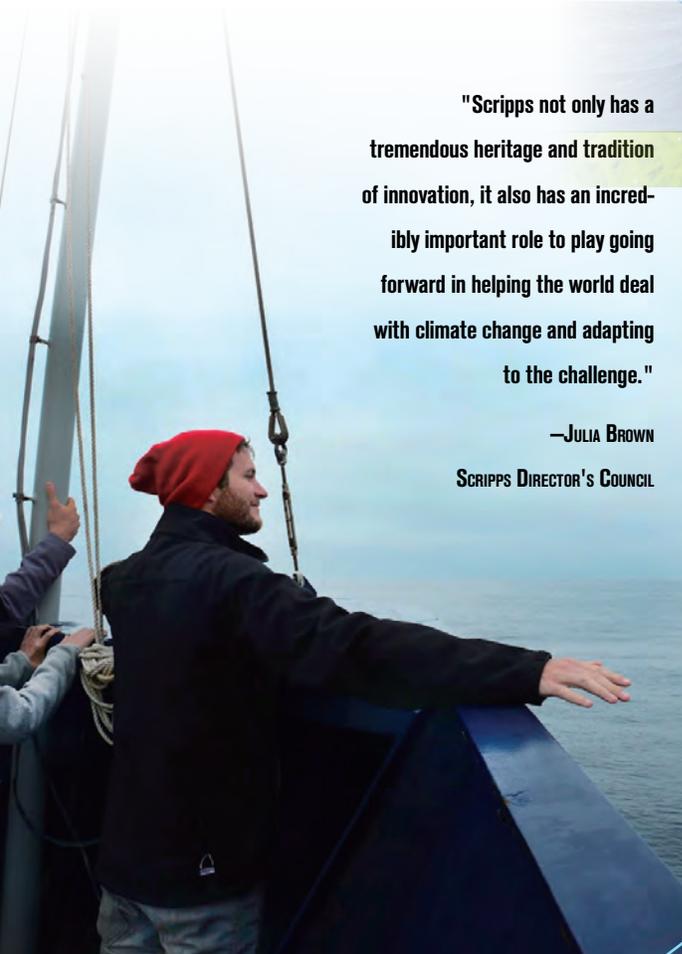


OBSERVING OUR PLANET



"Scripps not only has a tremendous heritage and tradition of innovation, it also has an incredibly important role to play going forward in helping the world deal with climate change and adapting to the challenge."

—JULIA BROWN
SCRIPPS DIRECTOR'S COUNCIL





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