The spirit of exploration and discovery that inspired the establishment of Scripps Institution of Oceanography more than a century ago continues today.

We are proud to be part of UC San Diego, which has grown into one of the top public research universities in the country and one of the top 20 universities in the world since its founding in 1960. With an increasing focus on collaboration and interdisciplinary research and education, our programs are growing in depth, reach, and impact.

We live in a rapidly changing world and observation is the first step toward understanding, mitigating, and adapting to changes in our environment.

Decades ago, observing our oceans was confined to going to sea in ships and the observations we could make were limited to the paths of the research vessels we sailed upon.

Today, thanks to the technological advances of the past several decades, we are able to add to our shipboard study through data from satellites, drifting buoys, floats and gliders, autonomous vehicles, cabled observatories—the list goes on. Harnessing these advances, Scripps scientists are inventing new tools to collect and analyze data effectively and efficiently in support of the Scripps mission to seek, teach, and communicate scientific understanding of the oceans, atmosphere, Earth, and other planets for the benefit of society and the environment.

This year we christened our newest research vessel, Sally Ride, named to honor the UC San Diego professor who was the first American female astronaut in space. Entrusted to Scripps by the Office of Naval Research, the new, state-of-the-art ship will explore the global oceans and enable future generations of scientists to conduct research at sea.

Scripps Oceanography remains financially stable and, as part of the new UC San Diego strategic plan, will grow our faculty with discipline-specific and interdisciplinary hires over the coming years. We continue to train

“David and Goliath” by Octavio Aburto-Oropeza
Image part of the exhibition: Mexican Seas, Birch Aquarium at Scripps
Scripps Institution of Oceanography: The Vision Continues...

1903. A curious scientist named William Ritter set out from UC Berkeley to study the science of life and established roots in La Jolla, California. Ritter’s ingenuity captured the attention of another pioneer, transplanted newspaper publisher E.W. Scripps, who proclaimed that he wanted to support “a little scientific concern at La Jolla for investigating the living things of the ocean and the ocean itself.” Scripps predicted, “It may make additions to knowledge that will be of great value to the world.”

With his sisters, E.W. helped create what he called “a school for the study of life,” renamed Scripps Institution of Oceanography in 1925 in honor of the Scripps family legacy. Together, these visionaries began an era of exploration and observation in all corners of the earth and oceans and today the institution is one of the most important education and research centers for understanding and protecting the planet.

Scripps scientists have sailed to tropical islands, climbed volcanoes, and ventured under polar ice, observing environments and their inhabitants, collecting specimens and samples, and recording voluminous data for laboratory analysis. They are world-class leaders in designing and creating novel instrumentation systems for effective use in global exploration. And always at the heart of their efforts is training our future ocean and earth scientists.

Today, as part of UC San Diego, Scripps Oceanography is an international leader in seeking scientific understanding of the globe, an effort that connects scientists with leaders in industry and policy to address concerns that impact our world. Groundbreaking discoveries at Scripps inspire solutions to some of the greatest environmental challenges we face today.

With the financial commitments we receive from federal, state, and private entities support our ambitions to conduct transformational science and to provide quality education through informal science, growing undergraduate programs, and rigorous graduate programs.

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With the many challenges we face as a society and a planet, UC San Diego’s Scripps Institution of Oceanography adds real-world solutions for real-world challenges to our expertise in exploration and discovery. We can’t do it alone, and we invite you to join us as our journey continues.

Margaret Leinen
Director
Scripps Institution of Oceanography
UC San Diego

With so many possibilities and challenges ahead, Scripps Institution of Oceanography continues its endeavor to fully investigate the oceans, land, and atmosphere for the benefit of society and the environment.
IMPACTS AT SCRIPPS

RESEARCH

SOCIETY AND SUSTAINABILITY BEYOND BOUNDARIES

Veerabhadran Ramanathan led a historic workshop at the Vatican on the common goals of social justice and environmental stewardship.

Ramanathan, who over the course of four decades has led research on the links between greenhouse warming agents, air pollution, and human health, was a co-convener of the first joint workshop of the Pontifical Academy of Sciences and the Pontifical Academy of Social Sciences in May. It was one of several efforts by Ramanathan and other researchers this year to lower longstanding barriers between science and religion with the goal of harnessing the moral authority of religious leaders to effect change for the common good.

In a brief meeting with Pope Francis, Ramanathan used the opportunity to convey one message: there are three billion poor people in the world who bear only a small responsibility for warming the planet, having never had access to fossil fuels used by the more affluent. Those poor, however, will bear the brunt of the worst effects of climate change. The Pope is expected to include environmental justice in an upcoming encyclical.

Ramanathan and Cambridge economist Partha Dasgupta reinforced the collaboration with the religious world in September when they published in the journal Science an appeal to religious leaders to forcefully advocate for the advancement of societal and environmental safeguards.

ADAPTING TO A RISING SEA

Scripps is a global leader in climate change science, as well as of interdisciplinary studies that aim to understand and forecast climate change and its consequences for our planet. Rising seas, caused by the melting of land ice sheets and continental glaciers and by the thermal expansion of oceans, threaten to inundate low-lying coastal areas, erode shorelines, damage property, and destroy ecosystems that protect coasts against storms. Coastal communities, businesses, and resource managers are already confronted with inundation issues that require action.

In May 2014, Scripps, the Annenberg Foundation Trust at Sunnylands, and The Prince Albert II of Monaco Foundation hosted a workshop on sea-level rise adaptation on the Scripps La Jolla campus. The workshop engaged science, engineering, social science, and policy experts to develop a conceptual plan to assist in the development of place-based, sea-level rise adaptation strategies, and prepared a framework for discussions at a retreat at Sunnylands in Rancho Mirage, California in October. At the Sunnylands retreat, business leaders, policymakers, and scientists discussed how to advance and provide leadership for effective sea-level rise adaptation strategies. A follow-up meeting to identify appropriate protocols for peoples who will be displaced by rising oceans is scheduled to take place in Kiribati in fall 2015.

Led by Chancellor Pradeep K. Khosla, UC San Diego’s new strategic plan includes research themes outlining the university’s vision for the future. Scripps Institution of Oceanography leads the theme Understanding and Protecting the Planet, which encompasses understanding and communicating environmental change, enhancing the resilience of society to adapt to these changes, and collaborating with other UC San Diego divisions to recommend policy changes and assess their economic impact. The projects below demonstrate the breadth of research and broader outreach under way at Scripps.
WESTERN U.S. RISING DUE TO SEVERE DROUGHT

Research by Scripps geophysicists Adrian Borsa and Duncan Agnew and climate researcher Dan Cayan led to the discovery that loss of groundwater due to drought in the western states has been so extreme that land mass rose an average of one-sixth of an inch since 2013. By measuring how much the land has risen, they have developed a more detailed estimate of the West’s water deficit. They calculate this deficit to be 240 gigatons, or 64 trillion gallons—equivalent to a four-inch layer of water covering the entire western U.S.

The researchers analyzed ground-positioning data from highly precise GPS stations throughout the west to calculate a rise of more than half an inch in California’s mountains and on average 0.15 inches across the western U.S. in recent years. While the results provide further evidence of severe drought in the West, researchers believe the study can lead to new ways to track water resources over broad regions. The U.S. Geological Survey supported this research, and results were published in the September 2014 issue of the journal Science.

BIOFUEL PROGRAMS TOP NATIONAL RANKINGS

As the world looks to new sustainable sources of energy, a laboratory at Scripps Institution of Oceanography and a UC San Diego consortium were ranked as the country’s best programs in algae technology research and related biofuel projects. The Department of Energy’s Bioenergy Technologies Office (BETO) ranked the research lab of Scripps marine biologist Mark Hildebrand and his team as the nation’s top program, specifically citing the lab’s “outstanding research” in the genetic manipulation of algae to improve the yield of key growth components for biofuel production.

The UC San Diego Consortium for Algal Biofuels Commercialization (CAB-Comm), led by UC San Diego and including several Scripps researchers, was ranked as second best in the country.

The rankings were developed by an external group of experts from industry, academia, government, and the non-profit sector, which evaluated 219 projects across nine technology areas representing $1.6 billion of BETO-supported research. BETO strategically supports bioenergy research that will reduce dependence on foreign oil, promote sustainable energy resources, establish a domestic bioenergy industry, and reduce carbon emissions from energy production and consumption.
Scripps also supports a number of programs to increase diversity in the classroom and in STEM fields and created a new Diversity Admissions Committee. These efforts paid off, as the incoming Scripps class has a record 18 percent underrepresented minority students.

Stellar faculty members play a large part in Scripps education programs, and this year we recruited four new Scripps professors, appointed three new adjunct professors, and appointed a Scripps Lecturer with Security of Employment. Continued collaboration with other departments at UC San Diego helps advance curricula and opportunities for Scripps students.

Whether students attend Scripps for undergraduate or graduate studies, one thing is clear: they are now part of the Scripps community, collectively working to better understand and protect the planet.

An education from Scripps Institution of Oceanography is like no other, placing graduates among an esteemed group of scientific professionals as well as within a network of illustrious Scripps alumni spread across the world.

This year, diverse students from a variety of scientific disciplines excelled in Scripps’s undergraduate, master’s, and doctoral programs. Scripps students shone brightly among their peers in 2014, receiving numerous internal and external awards and prizes including the Chancellor’s Dissertation Medal, the Frieman Prize, the Fager Award, and many more.

Students from all over are drawn to Scripps for its world-class research opportunities, state-of-the-art research facilities, and first-rate faculty. Valuable fellowship support provides students with access to research vessels, as well as opportunities to conduct fieldwork in locations across the globe, ranging from the Arctic to the Antarctic.

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Undergraduate Education Highlights:

- Scripps celebrated 50 years of earth science undergraduate training and academic excellence.
- Scripps made significant progress in defining a new undergraduate major in ocean and atmospheric sciences.
- The number of marine biology majors nearly doubled this year, from 87 in Spring 2013 to 133 in Spring 2014.
- The Scripps Undergraduate Research Fellowship (SURF) educated 20 students, including three from tribal colleges through a National Science Foundation grant for underrepresented students.
Scripps Students Travel to the Vatican for Sustainability Conference

Fellowship support allowed Scripps graduate students Emily Kelly and Matt Siegfried the opportunity to interact with famed scientists, leaders, and Pope Francis during a sustainability conference at the Vatican. The two students were invited as observers to the workshop, titled “Sustainable Humanity, Sustainable Nature: Our Responsibility,” which brought together 43 experts from around the world to discuss sustainability, climate change, and human dignity, among other pressing topics.

“It was an incredible experience to see so many people that are leaders in their field discussing these topics. Coming up with solutions to these problems requires that people think broadly, across disciplines, and this was the perfect setting,” said Kelly.

Over the course of their five-day trip, Kelly and Siegfried observed nearly 44 hours of sustainability-related presentations given by scientists and other prominent experts. “This conference made me realize how important places like Scripps are, and how lucky I am to be in a place like this,” said Siegfried.

Fellowship Support Helps Scripps Students

Fellowships provide much-needed support for our students to prepare them for tackling some of the greatest obstacles facing our planet today. We are in the midst of adapting to a changing world and at the heart of our effort is training the next generation of researchers, policymakers, teachers, and leaders. We can’t do it alone, and support for the best and brightest students at Scripps provides long-term benefits to society and the environment.

Fellowship Highlight:

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Cheryl Peach, director of Scripps Educational Alliances at UC San Diego and program scientist at Birch Aquarium at Scripps, spoke these words during her keynote address at the inaugural Ocean STEM Careers Night in April 2014. More than a dozen Scripps scientists and technicians engaged with nearly 200 middle and high school students and their parents—highlighting the exciting opportunities in ocean, earth, and atmospheric sciences.

Engaging the next generation of STEM (science, technology, engineering, and math) leaders and connecting the public to Scripps science are integral to the aquarium’s mission, and Ocean STEM Careers Night was an extraordinary evening that combined the two goals. Scripps scientists who participated enjoyed the event as much as the students. Jay Turnbull, geophysical analyst for ROV Engineering and Operations at Scripps, said, “I am grateful to work for an organization where community education and outreach are high priorities; it adds a deep and meaningful dimension to being a part of the Scripps community.”

Informing the public about science has been in the institutional fabric of Scripps since its founding, and Birch Aquarium as the public outreach arm of Scripps is able to bring science education to youth in an inspiring way. In 2013-14, 46,413 students, parents, and chaperones participated in Birch Aquarium’s school programs, representing more than half of the school districts in San Diego County. From onsite Discovery Labs to Beach Teaches at La Jolla Shores and Aquarium Outreach in classrooms, the aquarium strives to encourage scientific curiosity in all San Diego students.

To further its educational goals and to secure education programs in perpetuity, the aquarium announced an $8.4 million Education Endowment goal. This endowment will be a permanent resource supporting innovative science education outreach for underserved students and will provide a blueprint for the way teachers, informal educators, and scientists work together to transform science education. We look forward to announcing more information about this fund very soon.

Birch Aquarium also provides educational opportunities through award-winning exhibits. The aquarium’s latest exhibit, *Mexican Seas / Mares Mexicanos: Conservation in Focus*, opened in June. Generously supported by Rick and Patty Elkus, this captivating exhibit showcases the research and nature photography of Scripps marine ecologist Octavio Aburto-Oropeza. While the images are stunningly beautiful, the exhibit’s goal is to showcase research and work to protect, conserve, and educate stakeholders and the public about Mexico’s coastal marine ecosystems. The conservation stories told through these awe-inspiring photographs remind us that great things can happen when people work together to protect wild places.
Scripps Outreach

Scripps Institution of Oceanography diligently keeps the public informed about the latest research in atmospheric, earth, and ocean science. Our students, researchers, faculty, staff, and volunteers make a splash in the community, and on any given day you might find one of them in front of a middle school science classroom, behind the scenes at an education meeting with the state superintendent, or leading a tour of our beautiful campus.

**Scripps/Ocean Discovery Program Fosters Ocean Explorers**
Scripps and Ocean Discovery Institute have teamed up to develop a special sixth-grade curriculum, funded by a California Sea Grant Core Research grant, as part of Ocean Science Explorers, a school-based initiative that engages, educates, and inspires young people through hands-on ocean science exploration. Over the past year, the program reached 3,200 underserved students and provided professional development and science supplies to 115 teachers.

**Scripps Classroom Connection: GK-12 Program**
Funded by the National Science Foundation’s Graduate Teaching Fellows in K-12 Education (GK-12) outreach program, the Scripps Classroom Connection fellowship places Scripps students in the classrooms of underserved students throughout San Diego County. In addition to improving earth science literacy in diverse classrooms and fostering connections between Scripps and the K-12 community, this fellowship allows budding early career Scripps scientists to learn valuable communications skills.

**SCOPE in the Community**
Scripps Community Outreach Program for Education (SCOPE) is a volunteer-based group of students and researchers at Scripps that coordinates classroom visits at local schools and organizes tours for visiting school groups, teachers, and other scientists. Over the past year, SCOPE has reached 1,900 students and adults through 76 organized events, all aimed at educating the public on Scripps’s innovative research and the positive influence it has on the earth.

**Inspiring the Upward Bound**
This summer, Scripps hosted 30 high school seniors from Palomar College’s Upward Bound Program, a federal outreach program that provides year-round college prep instruction for disadvantaged and low-income students. Inquisitive high schoolers participated in classroom activities in chemistry, physics, and history and worked alongside Scripps graduate students in the lab, where they received hands-on, real-world applications of the knowledge they are learning in school and a glimpse of the possibilities provided by a college education.
PRIVATE SUPPORT MAKES A WORLD OF DIFFERENCE

Private support from individuals, families, foundations, and corporations play a key role in helping Scripps achieve globally recognized excellence in environmental science and education. Among many other impacts, gifts and grants help us recruit the best students and faculty, support our education and outreach efforts at Birch Aquarium at Scripps, and create opportunities for us to better understand the earth, atmosphere, and oceans. Scripps is grateful to all those who support our work, and in the process help to fuel innovation, train the next generation of environmental leaders, and help us better understand the world around us.

Highlights from 2013-14 include:

Scripps supporters joined scientists exploring the Millennium Atoll in the South Pacific to study the health of coral reefs.

E.W. Scripps Associates celebrated its twentieth year of providing critical unrestricted support to Scripps.

Scripps hosted the World Presidents’ Organization, and provided updates to attendees on key research and education programs under way at Scripps.

Scripps received a $500,000 anonymous gift to bring sensor, instrument, and platform concepts developed by Scripps scientists to completion for use. This private funding enables the creative equipment that will allow new types of measurements, detection, and extended power capabilities for ocean research.

Scripps hosted members of the Scripps Family, who live throughout the country, for a day of activities and tours.

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From July 1, 2013 to June 30, 2014

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**LEGEND**

- Director's Circle Member ($100,000+ cumulative giving)
- Director's Cabinet (A select group of advisors who work toward expanding awareness and support of Scripps research, education, and outreach programs)
- E.W. Scripps Associates Member ($1,000+ annual unrestricted donation)
- Friends of the Collections Member ($1,000+ annual donation to Scripps Oceanographic Collections)
- Friends of Birch Aquarium ($1,000+ annual donation to Birch Aquarium at Scripps)
- York Society Member (individuals who have generously included UC San Diego in their estate plans)
- Deceased
### REVENUE

<table>
<thead>
<tr>
<th>Sponsored Research</th>
<th>FY '12-'13 (expensed this period)</th>
<th>FY '13-'14 (awarded this period)</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of California Support</td>
<td>38,008,092</td>
<td>43,116,552</td>
</tr>
<tr>
<td>Benefits for UCSD FTE</td>
<td>6,230,148</td>
<td>6,916,844</td>
</tr>
<tr>
<td>1 Core Funds (includes $2M to cover OP tax)</td>
<td>31,777,944</td>
<td>36,199,708</td>
</tr>
<tr>
<td><strong>Earned Revenue</strong></td>
<td><strong>11,011,985</strong></td>
<td><strong>15,457,752</strong></td>
</tr>
<tr>
<td>Birch Aquarium at Scripps (BAS)</td>
<td>5,533,757</td>
<td>5,808,462</td>
</tr>
<tr>
<td>Recharge Unit Revenues</td>
<td>5,067,959</td>
<td>8,612,546</td>
</tr>
<tr>
<td>Intellectual Property &amp; Royalty Income</td>
<td>37,774</td>
<td>40,308</td>
</tr>
<tr>
<td>Other Revenue (mostly Scripps Forum, Martin Johnson House)</td>
<td>372,495</td>
<td>996,365</td>
</tr>
<tr>
<td><strong>Private Giving</strong></td>
<td><strong>6,286,707</strong></td>
<td><strong>9,461,492</strong></td>
</tr>
<tr>
<td>2 Private Gifts</td>
<td>4,088,782</td>
<td>5,284,578</td>
</tr>
<tr>
<td>3 Private Grants</td>
<td>2,177,925</td>
<td>4,112,914</td>
</tr>
<tr>
<td><strong>Interest Income</strong></td>
<td><strong>1,769,051</strong></td>
<td><strong>1,765,892</strong></td>
</tr>
<tr>
<td>Endowment Yield</td>
<td>1,703,897</td>
<td>1,740,007</td>
</tr>
<tr>
<td><strong>TOTAL REVENUE</strong></td>
<td><strong>187,422,688</strong></td>
<td><strong>203,329,589</strong></td>
</tr>
</tbody>
</table>

### EXPENSES

| Research Programs - SEEK | 165,332,576 | 170,687,212 |
| Sponsored Research | 132,222,379 | 134,746,113 |
| Ships | 26,788,445 | 31,314,675 |
| Oceanographic Collections | 432,191 | 484,410 |
| Contract & Grant Administration | 869,000 | 931,588 |
| Research Development & Planning | 667,049 | 774,809 |
| Research Infrastructure & Environmental Health & Safety | 531,514 | 538,617 |
| OP Tax on Research Expenditures | 1,222,000 | 1,697,000 |
| **Instruction Programs - TEACH** | **9,914,950** | **9,574,246** |
| Outreach - COMMUNICATE | 8,657,678 | 8,590,082 |
| Birch Aquarium at Scripps | 6,953,233 | 8,616,633 |
| Communications (SIO share) & Web Group | 586,619 | 781,772 |
| Development (SIO share) | 442,007 | 328,108 |
| Diversity | 136,479 | 92,858 |
| Special Events | 74,013 | 63,955 |
| Conference Facilities (Forum debt service, staff, maintenance) | 464,732 | 516,656 |
| **Institutional Support** | **5,248,815** | **6,428,889** |
| SIO Administration | 2,247,421 | 2,561,962 |
| IT Services | 611,350 | 705,173 |
| 4 Facilities Maintenance & Capital Improvements | 1,815,044 | 2,783,754 |
| OP tax on non-core expenditures | 535,000 | 378,000 |
| **TOTAL EXPENSES** | **189,154,020** | **195,280,429** |

#### Net Carryforward/(Deficit) from Current Activities

*(1,731,132)* *(8,049,160)*

### EXTRAMURAL FUNDING

<table>
<thead>
<tr>
<th>INTERNATIONAL GOVERNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment Canada</td>
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<tr>
<td>Japan Aerospace Exploration Agency</td>
</tr>
<tr>
<td>United States Israel Bilingual Agricultural Research and Development</td>
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<table>
<thead>
<tr>
<th>FEDERAL</th>
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</thead>
<tbody>
<tr>
<td>Department of Agriculture</td>
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<tr>
<td>U.S. Forest Service</td>
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<tr>
<td>Department of Air Force</td>
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<tr>
<td>Air Force Research Laboratory</td>
</tr>
<tr>
<td>Air Force Office of Scientific Research</td>
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</table>

<table>
<thead>
<tr>
<th>Department of Army</th>
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</thead>
<tbody>
<tr>
<td>U.S. Army Corps of Engineers</td>
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<tr>
<td>Space and Missile Defense Command</td>
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<table>
<thead>
<tr>
<th>Department of Commerce</th>
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</thead>
<tbody>
<tr>
<td>National Oceanic and Atmospheric Administration</td>
</tr>
<tr>
<td>National Institute of Standards and Technology</td>
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<tbody>
<tr>
<td>National Nuclear Security Administration</td>
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<tr>
<th>Department of Health and Human Services</th>
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<tbody>
<tr>
<td>National Cancer Institute</td>
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<tr>
<td>National Eye Institute</td>
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<tr>
<td>National Institute of Allergy and Infectious Diseases</td>
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<tr>
<td>National Institute of Environmental Health Sciences</td>
</tr>
<tr>
<td>National Institute of General Medical Sciences</td>
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<tr>
<td>National Institute of Neurological Disorders &amp; Stroke</td>
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<tr>
<th>Department of Interior</th>
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<tbody>
<tr>
<td>Fish and Wildlife Service</td>
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<tr>
<td>U.S. Geological Survey</td>
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<table>
<thead>
<tr>
<th>Department of Navy</th>
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<tbody>
<tr>
<td>Office of Naval Research</td>
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<tr>
<td>Naval Air Systems Command</td>
</tr>
<tr>
<td>Naval Facilities Engineering Command</td>
</tr>
<tr>
<td>Naval Postgraduate School</td>
</tr>
<tr>
<td>Naval Research Laboratory</td>
</tr>
<tr>
<td>Naval Sea Systems Command</td>
</tr>
<tr>
<td>Naval Surface Warfare Center</td>
</tr>
<tr>
<td>Space and Naval Warfare Systems Command</td>
</tr>
<tr>
<td>U.S. Pacific Fleet Commander</td>
</tr>
</tbody>
</table>

#### FOOTNOTES:

1. UCSD's budget model changed in FY 12-13. General Funds, Student Fees, and UCI are now considered Core Funds.
2. $5.3M includes only gifts received and available for spending in UC Regents funds in the current year. With bequests, pledges, contributions to endowment, and gifts booked with the UCSD Foundation, total SIO Development fundraising was $9.5M in FY 13-14.
3. Private grants are typically restricted funds and considered Sponsored Research; however, UCSD counts as Private Giving.
4. Excludes funds transferred to UCSD Facilities Design and Construction or Facilities Management and spent by those units on SIO projects. FY 13-14 total facility/capital improvement expenses paid by SIO were approximately $3.3M.
5. This statement does not reflect all annual expenditures associated with operating SIO. Services provided by campus departments are captured in UCSD financial reports, e.g., utilities, custodians, payroll, central HR, general accounting, purchasing, business contracts, central IT, transportation & parking, physical planning, community relations, real estate, deferred maintenance, facilities management.
SOURCES OF REVENUE 2013-2014

TOTAL: $203.3M

- Sponsored Research (based on expenditures) $133.5M 66%
- Private Gifts & Grants $9.5M 5%
- Earned Revenue $15.9M 7%
- University of California Support $48.1M 21%
- Interest Income $1.8M 1%

PRIVATE SUPPORT 2013-2014

TOTAL: $9.5M

- Campus Improvements $5,000 0.1%
- Discretionary $2.3M 24.6%
- Birch Aquarium at Scripps $1.2M 12.5%
- Fellowships & Student Support $1.1M 11.6%
- Instruction $47.6M 49.5%
- Scripps Oceanographic Collections $116,295 1.2%

CENSUS 2013-2014

TOTAL: 2,241

- Staff 822 (Includes 129 UG student staff) 37%
- Graduate Students 289 (Includes BS/MS students 15) 13%
- Researchers and Project Scientists 87 (Researchers 61) 4%
- Volunteers 629 28%
- Professors 103 (Full/Assoc 90, Adjunct Professor 13) 4%
- Other Academics 311 (Includes Visiting Scholars 78, Emeritus 72, Postgraduate Researchers 100, Other Academics 61) 14%
- Graduate Students 289 (Includes BS/MS students 15) 13%

AWARDS BY SPONSOR 2013-2014

TOTAL: $144.4M

- DOE $568,627 0.46%
- NIST 51.7M 1.5%
- NIH 54.5M 3.8%
- NSF $43M 29.83%
- State $4.4M 3.07%
- NOAA 26.6M 18.42%
- ARRA $720,336 0.50%
- DOE $568,627 0.46%
- NIST 51.7M 1.5%
- NIH 54.5M 3.8%
- NSF $43M 29.83%
- State $4.4M 3.07%

CITIES AND COUNTIES

City of San Diego
Orange County Sanitation District

EXTRAMURAL SUPPORT

Atlantic Petroleum Norge AS
BG Group, PLC
BGP Inc., CNPC
BP Group
Chevron Corporation
ConocoPhillips Company
Earth Networks, Inc.
Electromagnetic Geoservices SA, Seabed Logging Company
Exxon Upstream Research Company
Geophysical Resources & Services Pty Ltd.
George T. Pfleger Foundation
Geothermal Energy Research and Development Co., Ltd.
Greenland Institute of Natural Resources
Hess Corporation
Idemitsu Petroleum Norge AS
Japan Aerospace Exploration Agency
JX Nippon Oil and Gas Exploration Corp.
National Fish and Wildlife Foundation
Neos Geosolutions
Niko Asia, Ltd.
Ocean Floor Geophysics Inc.
Petrolebras S.A.
Petroleum Geo-Services ASA
Petromarker AS
Repsol YPF, S.A.
Rock Solid Images, Inc.
Royal Dutch Shell PLC
Seabed Geosolutions Inc.
SK Innovation Co., Ltd.
Southern California Gas Company
Statoil R and D Centre
Woodside Energy, Ltd.
Zonge Engineering & Research Organization, Inc.
Scripps alumni represent the rich history of the institution throughout the nation and the world since Scripps began offering research programs leading to graduate degrees in 1912. Our alumni maintain strong ties to the institution. As Scripps grows its graduate and undergraduate programs, our current students are interested in new ways to link with alumni. We are working with the UC San Diego Alumni office to strengthen our alumni offerings and interactions.

ALUMNI SPOTLIGHTS

Emily Trentacoste (PhD Oceanography, 2014) and Alyson Fleming (PhD Oceanography, 2014) are currently Sea Grant Knauss Marine Policy Fellows in Washington, D.C. This esteemed national program provides first-hand experience in national policy affecting ocean and coastal resources, and recipients are paired with hosts in the legislative or executive branch of the federal government. Trentacoste is a fellow at the Aquaculture Program Office, part of NOAA’s National Marine Fisheries Service. Fleming is with the Office of Marine Conservation, part of the State Department’s Bureau of Oceans and International Environmental and Scientific Affairs. This fellowship is named after Scripps Oceanography alumnus John A. Knauss, one of Sea Grant’s founders and a former NOAA Administrator.

Tim Gallaudet (PhD Oceanography, 2001) is the first Scripps graduate to rise to the rank of admiral in the U.S. Navy. He is now one of only three oceanography flag officers in the Navy. “Advancing knowledge of the ocean and climate is essential to maintaining our Navy’s operational advantage over any potential adversary, and in preparing for the impacts of future climate change,” according to Oceanographer of the Navy Rear Admiral Jonathan White. Gallaudet becomes an admiral at a time when the military’s need for information is greater than ever. He describes environmental information as a “platform for fighting wars and more than just an enabling element.” Gallaudet continues a close relationship with his alma mater, taking part in a May 2014 workshop on sea-level rise at Scripps, and in the August 2014 christening of the institution’s newest research vessel, Sally Ride.

Jana Davis (PhD Oceanography, 2000) became executive director of the Chesapeake Bay Trust in 2012, and oversees the trust’s work to improve watershed restoration, education, outreach, and innovation in the Chesapeake Bay region. She is trained as a marine ecologist and has spent her post-Scripps career working at the intersection of science and policy. She has been recognized for her work on new approaches to restoration, as well as for advancing the concept of Green Streets, which encourages the use of elements like tree plantings, pervious pavements, bike lanes, rain gardens, and energy-efficient street lighting to further environmental, social, and economic sustainability.

PUBLIC TOURS

This year, Scripps launched free public tours of the campus to area residents, new faculty and staff, first-time visitors to our campus, and the general public. These 50-minute tours are led by knowledgeable volunteer guides who are eager to show you the most notable features of our beautiful campus. For more information, please visit our website at https://scripps.ucsd.edu/tour

STUDENT PHILANTHROPY Scripps has long drawn the best and brightest to its campus, and your support of the Scripps Alumni Fund will help to maintain that tradition. More information can be found at: www-er.ucsd.edu/ScrippsAlumniFund
SHIPS

THE UC SHIP FUNDS PROGRAM

Research training is a fundamental element of the Scripps mission, and our commitment to practical research training is exemplified by the UC Ship Funds Program. Unique in the United States, this program provides an average of 57 days at sea per year (valued at $1 million) to enable students, postdoctoral researchers, and early career faculty to pursue independent research at sea aboard Scripps ships. Ship time is made available through a competitive internal peer-reviewed proposal process and supports missions from one-day trips near shore to multi-week expeditions staged from foreign ports.

The UC Ship Funds Program also provides ship time for Scripps professors to integrate seagoing experience and observations into their curricula. Over the past five years, 630 graduate students and 422 undergraduate students have obtained first-hand experience at sea aboard Scripps-operated research vessels.

R/V SALLY RIDE CHRISTENING

With the smash of a sparkling bottle of bubbly by ship sponsor Tam O’Shaughnessy, America’s newest research vessel was christened Sally Ride. Giving the keynote speech at the August event was Under Secretary of Commerce for Oceans and Atmosphere and NOAA Administrator Kathryn Sullivan, a marine geologist and astronaut who flew in space with astronaut Sally Ride. Ride went on to become a UC San Diego physics professor. Scripps Director Margaret Leinen recalled the inspiration of Sally Ride’s career and life and the way her remarkable achievements opened up a world of opportunity for aspiring female scientists. A constellation of notables also participated in the christening, including NASA Administrator Major General Charles Bolden, Chief of Naval Research RADM Matthew Klunder, Oceanographer of the Navy RADM Jonathan White, UC San Diego Chancellor Pradeep K. Khosla, and more than 400 attendees. The vessel is currently finishing construction, with an anticipated delivery date in 2015.

THE SCRIPPS FLEET

Scripps Institution of Oceanography continues a century-long legacy as a pioneer in the scientific exploration of the oceans. Today, Scripps research vessels are seagoing laboratories with state-of-the-art sensing systems and instruments that support global ocean-going science. Thousands of scientists, students, engineers, and explorers use Scripps research vessels every year for a broad range of missions, from efficient day trips off the California coast for student instruction to sustained overseas deployments.

Piers at our Nimitz Marine Facility home port, constructed more than 50 years ago, have been considered the finest in the U.S., yet have reached the end of their useful service life. Scripps and UC San Diego have invested $25 million to revitalize the infrastructure, which will result in a remarkably capable home port that will launch Scripps on our next 50 years of ocean exploration and research.
Scripps Oceanography research vessels venture from California around the world serving as mobile UC San Diego laboratories and classrooms. From icy blue Antarctic waters to steamy volcano-studded tropical seas, Scripps research vessels project our observational capabilities to all corners of the planet. Over the past five years, Scripps-operated ships completed 347 separate research missions, carrying to sea 5,521 scientists, students, engineers, and explorers from 495 different institutions, campuses, and laboratories. Our Global Class ships R/V Roger Revelle and R/V Melville explored the remote Atlantic, Indian, and Pacific oceans. Our Intermediate Class vessel R/V New Horizon focused on the eastern Pacific, from Alaska to Mexico and included important ecosystem studies in the California Current. Regional Class vessel Robert Gordon Sproul capably worked the coastal waters from Southern to Northern California.