Sustainability Research at the USC Wrigley Institute for Environmental Studies



Research Across our Cornerstones

 San Pedro Ocean Time-Series Ocean & Climate Modeling Impacts of Changing Environments on Marine Life Coastal Sediments and Climate Catalina & Boat Ocean Sensors 	 Harmful Algal Blooms Light Pollution USC Sea Grant: 'Urban Ocean' and Sea Level Rise CO₂ Sources & Sinks in SoCal Impacts of Invasive Species Marine Protected Areas and Human Interactions 	 Kelp Biofuel - Sustainable Energy Shellfish Aquaculture Genetics: 'Future of Food from the Sea' Microbial Fuel Cells – Energy from Microbes Food Waste Recycling Fellowships in Solar and Renewables Freshwater Security

What We Do

Enable Coastal Research

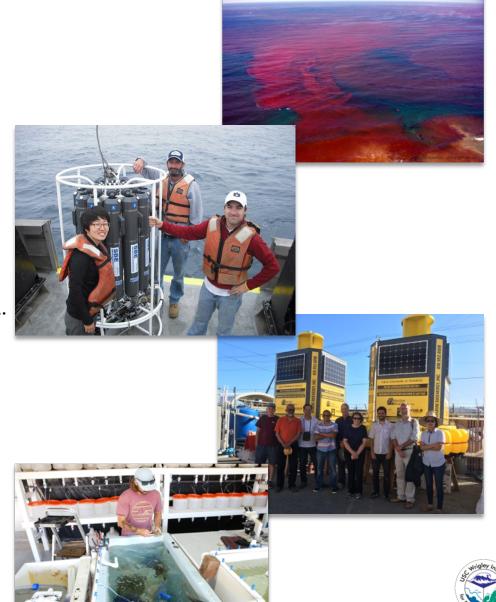
Harmful Algal Blooms: Understanding risks to wildlife & human health

Collect Long Term Data to Track a Changing World

- San Pedro Ocean Time-series: Oceanographic data off L.A.

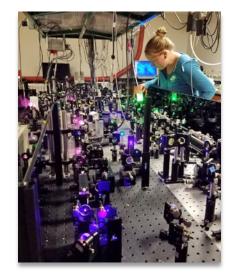
Support Innovation Toward Sustainable Solutions

- Freshwater Security: Keeping our drinking supply safe
- Kelp Biofuel : Alternative energy from the sea
- Future of Food from the Sea: Sustainable Seafood



Future Growth Areas

- Expand the Wrigley Institute Faculty Innovation Fund
 - Grants to foster faculty research in sustainability
- Increase Fellowships for Sustainability Graduate Research
 - Summer Sustainability Fellowship 28 USC graduate awards to date
- Catalina as a Test Bed
 - A 'living laboratory' to engage faculty research and pilot solutions
- Expand Industry and Decision-Maker Partnerships
 - Moving solutions out of the laboratory and into society





Cross-Campus Collaborations

Connecting Sciences to the Business Sector

- USC Wrigley Sustainability Prize
 - Mentorship with Marshall; Finalists from across campus



- Climate Forward: Navigating the Politics of Climate Change
 - Dornsife: Center for the Political Future and Price: Schwarzenegger Institute

Computer Sciences for the Environment

- Collaborations with Viterbi's Information Sciences Institute
 - Big data, artificial intelligence, etc.









