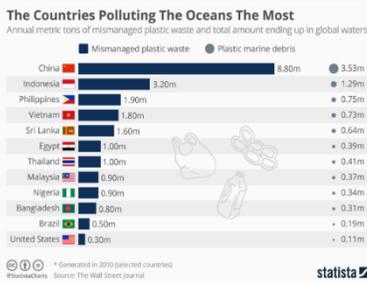


AUGUST 2019 - CLEAR BLUE SEA NEWSLETTER



Clear Blue Sea focused this month on our summer interns wrapping up their project work - all kinds of engineering, business, and marketing projects. We wrote several grant applications to secure funding for a much-needed warehouse and paying our core management team. We also received a generous donation from Lenton PARKS and the James McNerny Jr. Family Foundation - thank you!

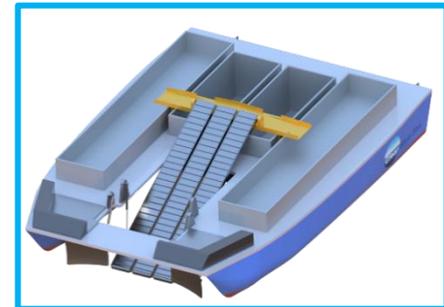
USD interns tested their small-scale FRED Prototype in Mission Bay with coverage by four local TV stations, demonstrating autonomous navigation and remote control up to one mile away. Thanks to USD's Tom Lupfer and Paula Schmid for their support. Congrats to USD interns Cameron Seymour, Jazmyn Gonzalez, Desmond Jones, and Zach Sourwine for their development of advanced navigation, debris collection, and embedded sensors on our FRED Prototype. Thanks to Zane Allen, Operations Manager, and Tim Perry, Chief Engineer, for providing logistical support to the Mission Bay FRED demonstration.



UCSD Extension International students, led by their professor Larry Destro, assessed the marine plastics problems in their home countries and efforts for waste prevention and ocean cleanup. This internship team presented findings for China, Taiwan, Japan, Indonesia, Malaysia, France, and the EU, showing differences in levels of contributing to ocean plastics (China and Indonesia) as well as efforts to improve plastic waste management (Japan, EU). Thanks to Li-Wen Cheng, Erika Deraze, Rafeidah Jamal, and Ryosuke Kondo for their great research, analysis, and recommendations for Clear Blue Sea to collaborate with global ocean conservancy organizations.

For our social media efforts, Venezia Zandrelli took over after Eva Ratcliffe's internship to spread awareness of ocean plastic and our FRED solution across Twitter, Facebook, Instagram, and LinkedIn. Clear Blue Sea is focused on increasing our following - so tell your friends to follow us and have their friends do the same. Thanks to Eva and Venezia for the dedication in spreading the word through articles, photos, and videos.

Clear Blue Sea is now designing and building a 16-foot FRED Jr. utilizing two donated catamarans undergoing retrofit. From prior prototyping projects, we are leveraging lessons learned and redeploying specific systems and materials in the construction of FRED Jr. 26 student interns from UCSD, SDSU, USD, PLNU and others across the country worked this summer and are continuing this fall to complete FRED Jr. by year's end. Early testing has verified autonomous navigation, propulsion speed, and remote control for FRED Jr. Thanks to Cathy, Cheryl, Nick, Brian, Anne, Clay, Iyad, Rana, Anas, Sophia, Giovanni, Diego, Sachi, Michelle, Erick, Nate, Edward, William, Wilson, Emma, Zack, Narges, Ulises, Jose, Ju, Nicholas, & advisors John, Tim, Zane.



We are stepping up our grant proposal writing to secure funding for full-time staff, a warehouse facility where all our 60 interns can work together in a common space instead of our garages and kitchens. We applied in August to the Cushman Foundation, NOAA Marine Debris Program, Goldman Sachs, American Honda Foundation, and Save Our Seas Foundation. We are also developing an unsolicited proposal package to send proactively to philanthropic, academic, governmental, and industry organizations which provide grants to ocean conservancy programs. Thanks to Venezia, Jessica, Amy, Devon, Alicja, Zane, Tim, Darcy, Ben, and Arturo for their contributions in developing these first-round grant proposals.

We are looking forward to our fall internship projects, completing FRED Jr., and winning some grants!

We appreciate your interest in [Clear Blue Sea](#)—the [Ocean](#) needs more fans like you!

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