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**Message from
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 Karen Casciotti**



Hello, everyone!

Thank you for the warm welcome you have given me in my new role with Earth Systems. This fall has been a whirlwind, but I've learned so much and enjoyed all of my conversations with you. I am grateful to be surrounded by such passionate students and colleagues, and have been astounded by everything that you do!

As we look ahead to our goals for this year, I hope to renew our commitment to diversity and inclusion, and strengthen opportunities for student research, internships, and career development. I'll be reaching out for conversations on these topics in the Winter quarter, and welcome your thoughts.

The Earth Systems Program has never been more relevant to the issues we face as a society and as a University striving to support sustainable practices in a fast-changing world. If you're interested in hearing more about opportunities in Earth Systems, come talk to us!

I look forward to seeing you in 2020!

Julie Kennedy Public Service Scholars



Jacqui Vogel
 B.S. '20 M.S. '21



Anthony Moller
 B.S. '19 M.S. '20



Ryan Treves
 B.S. '22

@ The O'Donohue Family Educational Farm



PC: Tom Hayden

Rooted Words

Students, faculty, and friends of the Earth gathered on October 23 for the Fall, 2019 installment of Rooted Words at the O'Donohue Family Stanford Educational Farm. Contributions related to the theme of "The Time Is Now," included poetry, academic writing, a touching eulogy, and more. Rooted Words started as a community reading series to provide a space for writers, speakers, storytellers, and creative minds alike to share their original work or simply lend a supportive ear in an open mic format. Rooted Words happens on the fifth Wednesday of every quarter with plenty of snacks, drinks, and merrymaking to go around. All are welcome!

-Madison Pobis
Earth Systems
B.S. '20 M.A. '21

ES Alumni Panel

Stanford Earth Systems hosted an Alumni Panel on November 21, welcoming Kathy Kleinbaum ('97), Kate Hayes ('08), Robert Firme ('14), and Diego Sancho ('18, '19) to speak with current and prospective Earth Systems students about their career paths. This was an opportunity for students to learn about where they could take an Earth Systems degree and how the interdisciplinary program prepares graduates to participate in environmental problem solving through the development of strong technical and soft skills.

The panel comprised professions from landscape architecture to working at a large tech company in Silicon Valley. An overarching message from the panelists was how the Earth Systems program truly instills a systems thinking approach to problem solving that can be carried into any sector, from local government to research to private corporations. Current students also heard from panelists about on-campus opportunities to take advantage of and pursuing graduate programs. The Earth Systems community is dedicated to fostering alumni relations and mentorship, and we will be hosting more alumni panels in the future to continue bringing these valuable insights to our undergraduates.

-Lilla Petruska
Earth Systems
B.S. '20 M.S. '21

Earth Systems Alumni Panel

Thurs. 11/21, 6:30-7:30pm in Y2E2 Rm. 299



Kathy Kleinbaum, B.S. '97
Assistant City Manager at
City of San Mateo



Diego Sancho, B.S. '18, M.S. '19
Research Assistant at MBARI
Biological Oceanography Group



Kate Hayes, B.S.'08
Registered Landscape Architect
Design Principle at Miridae



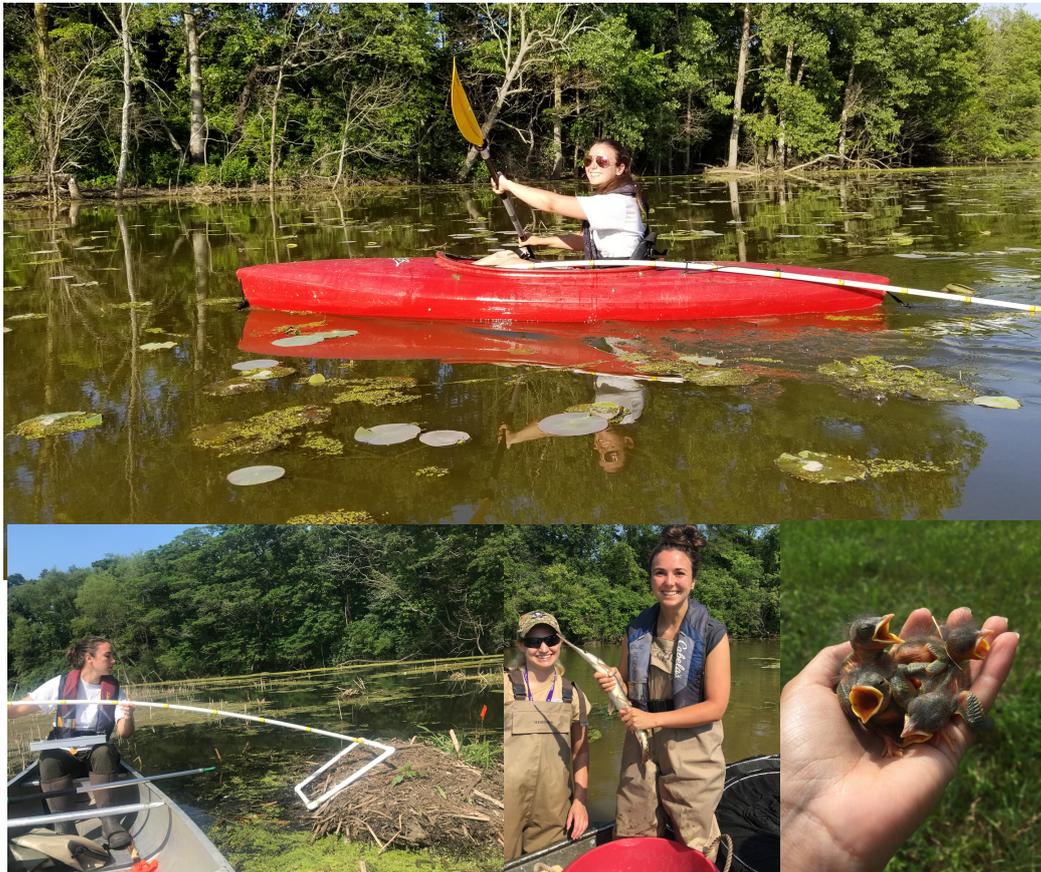
Robert Firme, B.S. '14
Senior Insights Analyst at LinkedIn

Internship Spotlight: Osanna Drake

As a recipient of the NOAA Hollings Scholarship, I got the chance to intern at any NOAA facility, and surprisingly, I chose one in semi-rural Ohio. Old Woman Creek is a strikingly biodiverse freshwater estuary on Lake Erie, and one of 29 National Estuarine Research Reserves across the U.S.. I was tasked with field research in the wetland, monitoring keystone and indicator species and comparing the timing and magnitude of their biological processes with changes in climate. This meant canoeing through underwater meadows of lotus and cattail to measure the lodge composition of resident muskrats, or carefully overturning logs to measure the temperature and activity level of tiny lungless salamanders. I spent my afternoons opening the nest boxes of migratory tree swallows, delicately holding fledglings as I counted them, and monitoring their growth as the season progressed. These were just 3 of the 8 initiatives for which I was responsible, as I also got the chance to monitor beavers, nesting eagles, secretive marsh-birds, and more. When I wasn't outside, I was at the computer managing and analyzing the data, or training and assisting local community members in becoming effective citizen scientists and continuing the work after I left.

This experience was unimaginably rewarding in ways I could never have predicted. As someone who's studied marine coastal issues extensively during my time here, I was curious how the Great Lakes' freshwater coasts would compare both ecologically and socially. I got to live and work among locals and see firsthand how the history of industry and agriculture in the coastal Midwest brought about the present-day culture and way of life as well as led to the development of its environmental issues.

- Osanna Drake
Earth Systems B.S. '20



Lorry I. Lokey Fellow: Nina Donaldson

As her Stanford journey comes to a close, Nina Donaldson is getting ready to pack her bags and head to the Big Apple in January. She is very excited to be working with the Environmental Defense Fund (EDF) as this year's Lorry I. Lokey Fellow. She will work at the heart of the Office of the Chief Economist developing spatial analytics and data visualization projects ranging from mapping US coastal storm surge risk to detecting fish aggregating devices.



Every year, the Lokey Fellowship at EDF supports the work of a current or recent Stanford graduate student in the natural or social sciences, the School of Engineering, or the Graduate School of Business. Annually, one fellowship position is available with EDF programs in Oceans; Land, Water & Wildlife; Climate & Air; or Health Sciences. The fellowship offers a unique opportunity to work directly with experts in science, law, economics, and other disciplines to help solve pressing environmental problems. The position is made possible through an endowed fund established by Stanford alumnus Lorry I. Lokey '49.

Annual Earth Systems Clothing Drive Success

Every year, the Earth Systems Program Student Advisors organize a holiday clothing drive by placing donation boxes in Y2E2, Huang, Shriram, Spilker, and Mitchell. This year, we received a record breaking amount of donations! 12 Truck loads! About 40 boxes were taken to St. Anthony's Church in Menlo Park who serves about 1,000 patrons a month.



WELLNESS CORNER: Tran Lam



My name is Tran Lam. I am the Earth System Wellness Liaison for the beginning of this new decade! As the Wellness Liaison of Earth Systems this year, I'm looking forward to promote our community's well-being by dedicating space to wellness conversations. The three topics for this quarter are sleep, fitness, and de-stress strategies! Be on the lookout for emails from me!

Way to go, Melissa!

Celebrating 30 Years of Dedicated Service at Stanford University!



Congratulations to Melissa Vallejo, on her 30th work anniversary at Stanford University (almost 10 years at Earth Systems)!

Mark your Calendars!

DEADLINES

- **Jan. 6** - First day of Winter Qtr./Study List Deadline
- **Jan. 24** - Final Study List Deadline
- **Feb. 4** - Earth Systems Public Service Fellowship (HAAS) Deadline
- **Feb. 4** - Bill Lane Center Internships
- **Feb. 18** - Earth Systems Coterm Applications
- **Feb. 21** - SESUR Application Deadline
- **Mar. 9** - UAR Major Grant Deadline
- **Feb. 1, Mar. 1, April 1** - UAR Small Grant Deadline
- **April 27** - Honors Program Proposals Due

EVENTS

- **Jan. 14** - SESUR Info session 3:30 pm Mitchell Bldg, room B04
- **Jan. 23** - ES Scholars Info Session, 12:30-1:30, Y2E2 190
- **Jan. 24** - ES Internship Info Session, 12-1pm, Y2E2 190
- **Jan. 28** - Majors Night, 6-8pm, Erickson Courts
- **Jan. 31** - ES Prospective & New Majors, TBD, ES office 131
- **Feb. 5** - Coterm Info Session, 12-1pm, Y2E2 101
- **Feb. 14** - Happy Valentines Day Social, TBD, ES office 131
- **Feb. 28** - Leap Year Social, TBD, ES office 131
- **Mar. 2** Prospective Majors Dinner, 5-7pm, Mitchell Hartley Conf. Room
- **Mar. 13** - Pi Day Social, TBD, ES office 131
- Rooted Words (**Quarterly**)
- Julie Kennedy Public Service Scholar Ceremony (**Quarterly**)

Welcome

**Hannah Young &
Leif Gonzales-Kramer
to the Student Advisor team!**



Learn more about them here:

<https://pangea.stanford.edu/esys/people/student-advisors>