



PROGRAM ON THE ENVIRONMENT

UNIVERSITY of WASHINGTON

Autumn 2021

CAPSTONE SYMPOSIUM

Wednesday, December 1, 2021

Online, 4:30 – 7:30 pm

The Capstone experience is a three-course series (ENVIR 490, 491, 492) centered on a quarter-long project-based internship with a community site partner. Capstone sites range from community-based non-profits and government agencies to faculty research projects and private sector initiatives. With the mentorship of a faculty advisor and the support of the site supervisor, students gain valuable hands-on experience, explore career possibilities, and build a wide spectrum of professional communication skills.

Share your thoughts on Twitter

Students will be live-tweeting all sessions so if you miss one, follow the updates. If you tweet, we encourage you to share what you learn and use the hashtag, #POEcap.



Scan QR code to view capstone abstracts

4:30 – 4:40 pm	WELCOME & SESSION OVERVIEW
4:40 – 4:50 pm	Session A Speaker Intros
4:50 - 5:50 pm	Poster Session A - Education, Outreach & Engagement; Natural Science & Restoration; Equity & Justice

WHAT GOES AROUND, COMES AROUND: EDUCATING CHILDREN ON THE COMPOSTING CYCLE

Session: A, Breakout Room #1

Katarina Crkonova*, @KCrkonova, Program on the Environment, University of Washington

Site Supervisor: Maggie Brown, Cedar Grove

Faculty Advisor: Leah Rubinsky, Program on the Environment, University of Washington

AQUATIC COMMUNICATION IN THE WILLAMETTE RIVER BASIN: A CASE STUDY OF FEDERAL ENVIRONMENTAL OUTREACH

Session: A, Breakout Room #2

Divinity Dodge*, @DivinityDodge, Program on the Environment, Political Science, University of Washington

Site Supervisor: Larissa Lee, National Oceanic and Atmospheric Administration Restoration Center

Faculty Advisor: Yen-Chu Weng, Program on the Environment, University of Washington

THE SOUND OF CHANGE: HOW CAN PODCASTS BE USED TO INSPIRE ENVIRONMENTAL ACTION?

Session: A, Breakout Room #3

Connor Flynn*, @connor_a_flynn, Program on the Environment, University of Washington

Site Supervisor: Alexa Russo, University of Washington Bothell, Stephan Classen, Cascadia College

Faculty Advisor: Adrienne Russell, Department of Communication, University of Washington

HOW CITY PARKS CAN IMPROVE WELL BEING AND PROMOTE SUSTAINABLE ACTIONS

Session: A, Breakout Room #4

Jessie Gilbert*, @_jessie_gilbert, Program on the Environment, University of Washington

Site Supervisor: Garrett Esperum, Friends of Discovery Park

Faculty Advisor: Kristi Park, Program on Built Environments, University of Washington

SEDIMENTOLOGY AND CITIZEN SCIENCE: ECOLOGICAL MONITORING IN CARPENTER CREEK, KINGSTON, WA

Session: A, Breakout Room #5

Quinn Habedank*, @Qhabedank, Program on the Environment, University of Washington

Site Supervisor: Melissa Fleming, Stillwaters Environmental Center

Faculty Advisor: Ben Marwick, Department of Anthropology, University of Washington

KING COUNTY'S PATH TO NET ZERO: BUILDING ENERGY EFFICIENCY UPGRADES

Session: A, Breakout Room #6

Henri Hardman*, @henrirows, Program on the Environment, University of Washington

Site Supervisor: John Kennedy, 2050 Project

Faculty Advisor: David Blum, Urban Design and Planning, University of Washington

LET'S TALK TRASH: IMPLEMENTING SUSTAINABILITY IN HIGHER EDUCATION

Session: A, Breakout Room #7

Julie Ira*, @JulieIra4, Program on the Environment, University of Washington

Site Supervisor: Liz Gignilliat, UW Recycling, Building Services Department, University of Washington

Faculty Advisor: Gary Handwerk, Program on the Environment, University of Washington

ENVIRONMENTAL DNA: A CRAB-TIVATING CASE STUDY OF SCIENCE COMMUNICATION

Session: A, Breakout Room #8

Justine Jadallah*, @JadallahJustine, Program on the Environment, Marine Biology, University of Washington

Site Supervisor: Sean McDonald, Emily Grason and Abigail Keller, Washington Sea Grant

Faculty Advisor: Ryan Kelly, School of Marine and Environmental Affairs, University of Washington

FOUNDATION FOR THE FUTURE: TOOLS FOR TEACHING ENVIRONMENTAL JUSTICE IN URBAN ENVIRONMENTS

Session: A, Breakout Room #9

Isabella Koch*, @bellak211, Program on the Environment, University of Washington

Site Supervisor: Elise Lasky, Seattle Global Shapers

Faculty Advisor: Kristina Straus, Program on the Environment, University of Washington

HIDDEN HISTORIES, CURRENT REALITIES: HISTORICAL CONTEXT IN ENVIRONMENTAL ORGANIZING

Session: A, Breakout Room #10

Ellie MacLean*, @elliemaclean, Program on the Environment, University of Washington

Site Supervisor: KL Shannon and Susan Gleason, Seattle Neighborhood Greenways

Faculty Advisor: Madison Heslop, Department of History, University of Washington

FOSTERING COMMUNITY KNOWLEDGE PRODUCTION AS THE KEY TO A JUST AND SUSTAINABLE SEATTLE

Session: A, Breakout Room #11

Sydney Porter*, @SydneyLPorter, Program on the Environment, University of Washington

Site Supervisor: Jessica Hernandez and Em Piro, Sustainable Seattle

Faculty Advisor: Branden Born, Urban Design and Planning, University of Washington

VULNERABILITY: CAN WE DEFINE IT BEFORE IT IS TOO LATE FOR FISH?

Session: A, Breakout Room #12

Madison Weise*, @MaddyWeise, Program on the Environment, University of Washington

Site Supervisor: Bridget Ferriss, National Oceanic and Atmospheric Administration, Alaska Fisheries Science Center

Faculty Advisor: Tim Essington, School of Aquatic and Fishery Sciences, University of Washington

CLIMATE JUSTICE: THE ROLE OF HUMAN VALUES IN EFFECTIVE COMMUNICATION AND INSPIRING ACTION

Session: A, Breakout Room #13

Naeemah Zakarya*, @Naeemahzakarya, Program on the Environment, University of Washington

Site Supervisor: Elise Lasky, Global Shapers Seattle Hub

Faculty Advisor: Adrienne Russell, Department of Communication, University of Washington

5:50 – 6:00 pm	BREAK
6:00 – 6:05 pm	Session Overview
6:05 – 6:15 pm	Session B Speaker Intros
6:15 – 7:15 pm	Poster Session B – Agriculture & Food Systems; Business & Sustainability; Policy & Regulation

CAN'T TAKE THE HEAT? CREATE DEFENSIBLE SPACE: DELIVERING DEFENSIBLE SPACE TO WILDFIRE VULNERABLE POPULATIONS

Session: B, Breakout Room #1

Annabelle Acosta*, @AnnabelleAcos16, Program on the Environment, University of Washington

Site Supervisor: Kathryn J. Heim, Fire Adapted Methow Valley

Faculty Advisor: Lubna Alzaroo, Department of English, University of Washington

AWARENESS IS KEY: GAUGING THE AWARENESS OF FOOD INSECURITY ISSUES

Session: B, Breakout Room #2

Matt Condrin*, @condrinmatt, Program on the Environment, University of Washington

Site Supervisor: Julian Garcia, City Fruit

Faculty Advisor: Ann Anagnost, Department of Anthropology, University of Washington

EMBRACING THE POWER OF FRIENDSHIP: THE INFLUENCE OF COLLABORATION ON INCREASING SUSTAINABILITY ENGAGEMENT

Session: B, Breakout Room #3

Trish Deignan*, @trishdeignan, Program on the Environment, University of Washington

Site Supervisor: Toren Elste, UW Sustainability Office, University of Washington

Faculty Advisor: Kristina Straus, Program on the Environment, University of Washington

NEVER NEUTRAL: SUBJECTIVITY & ACCOUNTABILITY IN ENVIRONMENTAL REPORTING

Session: B, Breakout Room #4

Sage Dewdney*, @Sage_Dewd, Program on the Environment, University of Washington

Site Supervisor: Jenny Cooper, The Northwest School

Faculty Advisor: Meg Chadsey, Washington Sea Grant, University of Washington

WASTE NOT WANT NOT, ASSESSING BEST FOOD AND PLASTIC WASTE PREVENTION APPROACHES

Session: B, Breakout Room #5

Jonathan Frias*, @frias4921, Program on the Environment, University of Washington

Site Supervisor: Veronica Fincher, Seattle Public Utilities

Faculty Advisor: Kristina Straus, Program on the Environment, University of Washington

CODE GREEN: AN EXAMINATION OF THE RESILIENCE OF HOSPITAL SUSTAINABILITY IN PANDEMIC TIMES

Session: B, Breakout Room #6

Matt Goldman*, @migoldman7, Program on the Environment, Chemical Engineering, University of Washington

Site Supervisor: Beth Schmidt, Nalco Water, an Ecolab Company

Faculty Advisor: David Bergsman, Chemical Engineering, University of Washington

SUSTAINABLE CONSTRUCTION: THE ADVANTAGES AND DISADVANTAGES OF MODERN CONSTRUCTION TECHNOLOGIES

Session: B, Breakout Room #7

Mattijs Holler*, @mattijs_holler, Program on the Environment, Construction Management, University of Washington

Site Supervisor: Christian Holler, Herbert Bau GmbH

Faculty Advisor: Alexa Schreier, Program on the Environment, University of Washington

HOW COLLEGE CAMPUSES IN NORTH AMERICA CAN IMPROVE SUSTAINABLE TRANSPORTATIONS

Session: B, Breakout Room #8

Feiyang Ji*, @FeiyangJi, Program on the Environment, University of Washington

Site Supervisor: Stephen Classen, Common Caws for Sustainability, Cascadia College

Alexa Russo, Common Caws for Sustainability, University of Washington Bothell

Faculty Advisor: Kristina Straus, Program on the Environment, University of Washington

TOILET TALK: HOW REPLACING TOILETS CAN INCREASE SUSTAINABILITY, EQUITY, AND QUALITY OF LIFE

Session: B, Breakout Room #9

Hanna Maya Lester*, @hannamlester, Program on the Environment, Economics, University of Washington

Site Supervisor: Melissa Levo and Mialee Jose, Seattle Public Utilities

Faculty Advisor: David Layton, Evans School of Public Policy and Governance, University of Washington

HOME ENERGY USE MATTERS; RESIDENTIAL ENERGY DISCLOSURE IN SEATTLE

Session: B, Breakout Room #10

Logan Pulsifer*, @Logan-Pulsifer, Program on the Environment, University of Washington

Site Supervisor: Rachel Brombaugh, King County Executive's Office

Faculty Advisor: Marilyn Ostergren, Program on the Environment, University of Washington

**HOW RE-CONNECTING WITH NATURE BEGINS IN THE BACKYARD: WHAT
MOTIVATES PEOPLE TO ENGAGE IN SMALL-SCALE ECOLOGICAL DESIGN
PROJECTS**

Session: B, Breakout Room #11

Madeleine Schroeder*, @madeleineschro, Program on the Environment, University of Washington

Site Supervisor: John Coghlan and Jenna Duncan, HomeGrown Organics

Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

**CORPORATE SUSTAINABILITY: UNLOCKING THE POTENTIAL OF CARBON
OFFSETS TO HELP BUSINESSES REACH CARBON NEUTRALITY**

Session: B, Breakout Room #12

Grace Zamzow*, @GraceZamzow, Program on the Environment, University of Washington

Site Supervisor: Neil O'Brien, Puget Sound Beverage

Faculty Advisor: Alexa Schreier, Program on the Environment, University of Washington

7:15 – 7:30 pm Closing

WE THANK YOU

To all faculty advisors, site supervisors, Program on the Environment staff and to the audience for your support. We could not have done any of this without you!