Autumn 2023 Program on the Environment CAPSTONE SYMPOSIUM

Event Program



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Wednesday, November 29th, Online, 4:30 – 7:30 pm (https://washington.zoom.us/s/95748800932)

Wednesday, December 6th, In-Person, 4:30 – 7:30 pm (UW School of Aquatic Fisheries & Science FSH 102 & Lobby)

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 nonprofits 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.

DAY 1: ONLINE POSTER SYMPOSIUM

(November 29th; Online Presentations)

4:30 PM – 4:40 PM Welcome & Session Overview

4:40 PM - 4:50 PM Session A Speaker Intros

4:50 PM – 5:50 PM Poster Session A – Education & Outreach; Policy & Regulation

LIKE, COMMENT, AND SHARE: HOW SOCIAL MEDIA CAN BOOST ENGAGEMENT FOR TRANSIT JUSTICE

Session: A, Breakout Room: #1

Jasmine Barreto, @ jasminebarreto, Program on the Environment, Cinema & Media Studies,

University of Washington

Site Supervisor: Keith Kyle, Seattle Subway Foundation

Faculty Advisor: Erin Gilbert, Program on the Environment, University of Washington

"GO GREEN! STORMWATER INFRASTRUCTURE" - BRIDGING THE EDUCATIONAL GAP BETWEEN HOMEOWNERS AND GSI

Session: A, Breakout Room: #2

Carina Baxter, carina_baxter36, Program on the Environment, University of Washington

Site Supervisor: Jenny Heins, Sustainable Ballard

Faculty Advisor: Jason Benscher, Athletics Department, University of Washington

LEARNING TO LIVE IN A CHANGING WORLD: PLANNING AGAINST THE THREAT OF EXTREME HEAT

Session: A, Breakout Room: #3

Julian Gonzales, @JulianG1021, Julian Gonzales*, Program on the Environment, University of

Washington

Site Supervisor: Jillian Edge, Public Health - Seattle & King County, Preparedness Section Faculty Advisor: Jeremy Hess, Emergency Medicine, Environmental & Occupational Health

Sciences, and Global Health, University of Washington

DAM! BRIDGING THE DAM: PERCEPTION AND APPROACHES TO BEAVER-RELATED RESTORATION WORK IN SCATTER CREEK

Session: A, Breakout Room: #4

Florencia Gonzalez-Martinez, Program on the Environment, University of Washington

Site Supervisor: Kirsten Harma, Chehalis Basin Partnership and Chehalis Basin Lead Entity for

Salmon Recovery, Watershed Coordinator

Faculty Advisor: Gunwha Oh, Department of Geography, University of Washington

ROOTS OF CHANGE: ACTIONS PLANT CONSERVATORIES & BOTANICAL GARDENS CAN TAKE TO SHARE PLANT KNOWLEDGE IN MORE CULTURALLY INCLUSIVE WAYS

Session: A, Breakout Room: #5

Patrick Harper, @patrickk_harper, Program on the Environment, Global and Regional Studies,

University of Washington

Site Supervisor: KL Bentrup and Lauren Moore, Friends of the Conservatory

Faculty Advisor: Brittany Johnson, School of Environmental and Forest Sciences, University of

Washington

FINDING BARRIERS TO USING SALVAGED LUMBER AND SOLUTIONS TO INCREASE USE IN KING COUNTY

Session: A, Breakout Room: #6

Lauren Harris, Program on the Environment, Political Science, University of Washington

Site Supervisor: Kinley Deller and Alex Erzen, King County Solid Waste Division

Faculty Advisor: Indroneil Ganguly, School of Environmental and Forest Sciences, University of

Washington

URBANIZATION OR GENTRIFICATION? THE BENEFITS AND CHALLENGES OF EXPANDING LINK LIGHT RAIL IN SEATTLE

Session: A, Breakout Room: #7

Palmer Holt, Program on the Environment, University of Washington

Site Supervisor: Keith Kyle, Seattle Subway Foundation

Faculty Advisor: Manish Chalana, Urban Design and Planning, University of Washington

THE GREENEST BELT: UNDERSTANDING THE MOTIVATIONS AND BARRIERS TO ENVIRONMENTAL VOLUNTEERING IN URBAN GREEN SPACES

Session: A, Breakout Room: #8

Matthew Koay, Program on the Environment, University of Washington

Site Supervisor: Linda Becker, Friends of Harrison Ridge

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

REIMAGINING THE SOUND TRANSIT DISTRICT: HOW A REVISED FARE MODEL COULD TRANSFORM THE REGION'S RELIANCE ON PUBLIC TRANSPORTATION

Session: A, Breakout Room: #9

Mae Langford, Program on the Environment, University of Washington

Site Supervisor: Keith Kyle, Seattle Subway Foundation

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

USING REBATES TO PROTECT OUR WATERS: INCREASING EQUITABLE UTILIZATION IN THE RAINWISE REBATE PROGRAM FOR DISADVANTAGED COMMUNITIES

Session: A, Breakout Room: #10

Matthew Mason, Program on the Environment, University of Washington

Site Supervisor: Jenny Heins, Sustainable Ballard

Faculty Advisor: Sergey Rabotyagov, School of Environmental and Forest Sciences,

University of Washington

ENVIRONMENTAL EDUCATION: EXPANDING ACCESS HERE, THERE, AND EVERYWHERE

Session: A, Breakout Room: #11

Caitlin Naqvi, @NaqviCait, Program on the Environment, University of Washington

Site Supervisor: Julia Glassy, Fiddleheads Forest School, University of Washington Botanical

Gardens

Faculty Advisor: Faculty Advisor: Timothy Billo, Program on the Environment, University of

Washington

OPPORTUNITIES FOR MINORITIES: HOW EXPANDING THE SCOPE OF ENVIRONMENTAL INTERNSHIPS CAN IMPROVE DIVERSITY

Session: A, Breakout Room: #12

Jaiden Reese, @jaidenreese22, Program on the Environment, University of Washington Site

Supervisor: Dan Tonnes, National Oceanic and Atmospheric Administration

Faculty Advisor: Kristie Ebi, Center for Health and the Global Environment, University of

Washington

BRIDGING THE GAP BETWEEN TRADITIONAL WISDOM AND SCIENCTIFIC ADVANCEMENTS

Session: A, Breakout Room: #13

Ayana Sabbas, Program of the Environment, University of Washington

Site Supervisor: Jason Gobin and Melissa Gobin, Tulalip Tribes Natural Resources Faculty Advisor: Charlotte Coté, Department of American Indian Studies, University of

Washington.

CIRCULAR ECONOMY ADOPTION IN CONSTRUCTION: STAKEHOLDER PERSPECTIVES AND STRATEGIES

Session: A, Breakout Room: #14

Anna Schmitz, @AnnaSchmitz56, Program of the Environment, University of Washington Site Supervisor: Kinley Deller, King County Solid Waste Division and Alex Erzen, King County

Department of Natural Resources and Parks

Faculty Advisor: Ben Packard, EarthLab, University of Washington

SOCIAL MEDIA FOR SOCIAL CHANGE: HOW NONPROFITS CAN USE SOCIAL MEDIA TO INCREASE STAKEHOLDER COMMUNICATIONS AND GAIN FUNDING

Session: A, Breakout Room: #15

Nina Shuken, Program on the Environment, University of Washington

Site Supervisor: Peter Donaldson, Sustainability Ambassadors

Faculty Advisor: Nives Dolsak, School of Marine and Environmental Affairs, University of

Washington

DRY RIVER, WET EYES: AN EXPLORATION OF WHAT MAKES OR BREAKS COLLABORATION AS A TOOL FOR ENVIRONMENTAL PRACTITIONERS

Session: A, Breakout Room: #16

Gracie Thomsen, @gthomsenuw37, Program on the Environment, English

Site Supervisor: Alison Schweitzer and Mary Rabourn, King County Stormwater Services Faculty Advisor: Yen-Chu Weng, Program on the Environment, University of Washington

BEAVERS: AGRICULTURE'S FOE TURNED FRIEND

Session: A, Breakout Room: #17

Charlotte Till, @CharlotteTilll, Program on the Environment, Business Administration:

Entrepreneurship, University of Washington

Site Supervisor: Linda Lyshall, Snohomish Conservation District

Faculty Advisor: Clare Ryan, Environmental and Forest Science, College of the Environment,

University of Washington, University of Washington

THE THREE C'S OF MARKETING TO UNDERSERVED COMMUNITIES: CONNECTION, COMMUNICATION, AND CULTURE

Session: A, Breakout Room: #18

Anna Marie Wing, @enviranna, Program on the Environment, University of Washington

Site Supervisor: Josh Epstein, NE Seattle Tool Library

Faculty Advisor: Rebakah Daro Minarchek, Integrated Social Sciences, International Studies,

University of Washington

FROM DATA SCIENCE TO WORKFORCE DIVERSITY: REVOLUTIONIZING ENVIRONMENTAL RECRUITMENT STRATEGIES

Session: A, Breakout Room: #19

Shirley Yao, Program on the Environment, Information School, University of Washington

Site Supervisor: Dan Tonnes, National Oceanic and Atmospheric Administration Faculty Advisor: Ott Toomet, Information School, University of Washington

5:50 PM - 6:00 PM BREAK

6:00 PM - 6:05 PM Session B Overview

6:05 PM – 6:15 PM Session B Speaker Intros

6:15 PM – 7:15 PM Poster Session B – Agriculture & Food systems; Natural Science & Restoration; Sustainability

WHY WE SHOULD CARE ABOUT WETLAND AND HOW TO RESTORE IT EFFICIENTLY

Session: B, Breakout Room: #1

Justin Chao, @JustinChao1127, Program on the Environment, University of Washington

Site Supervisor: Grace Stiller, Weed Warriors, Nature Stewards Program

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

MAKING FRUITFUL HABITATS: ESTABLISHING BEST PRACTICES FOR FRUIT GLEANING ORGANIZATIONS TO EASE THE EFFECTS OF CLIMATE CHANGE ON POLLINATORS

Session: B, Breakout Room: #2

Rachel Ellingwood, @ellinrac, Program on the Environment, University of Washington

Site Supervisor: Bennett Walkes, City Fruit

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

GROWING RESILIENCY: APPROACHING YEAR-ROUND FOOD SECURITY IN THE GREATER SEATTLE AREA

Session: B, Breakout Room: #3

Althea Ericksen, @altheaericksen1, Program on the Environment, University of Washington

Site Supervisor: Perry Acworth, The UW Farm

Faculty Advisor: Eli Wheat, Program on the Environment

DON'T SAVE ALL THE TREES! ENSURING THE SURVIVAL OF PACIFIC NORTHWEST FORESTS THROUGH ECOLOGICALLY-FOCUSED THINNING TREATMENT

Session: B, Breakout Room: #4

Jessica Fragoso, @jessicanoemifr1, Program on the Environment, University of Washington

Site Supervisor: Rowan Braybrook, Northwest Natural Resource Group

Faculty Advisor: Ernesto Alvarado, School of Environmental and Forest Sciences, University of

Washington

GOING WITH THE FLOW: HARNESSING SOCIAL NORMS FOR REUSABLE WATER BOTTLE ADOPTION

Session: B, Breakout Room: #5

Amelie Gahagan, @GahaganAmelie, Program on the Environment, Foster School of Business,

University of Washington

Site Supervisor: Liesel Hans, Alliance for Water Efficiency

Faculty Advisor: Sergey Rabotyagov, School of Environmental and Forest Sciences, University

of Washington

DRINKING RESPONSIBLY: THE ROLE OF SUPPLIER PERFORMANCE ASSESSMENTS IN COLLABORATIVE SUSTAINABLE SUPPLY CHAIN MANAGEMENT

Session: B, Breakout Room: #6

Emma Haener, @EmmaHaener, Program on the Environment, University of Washington

Site Supervisor: Erik Throndsen, Talking Rain Beverage Company Faculty Advisor: Ben Packard, EarthLab, University of Washington

O, SOIL! WHAT O HORIZON THICKNESS CAN TELL US ABOUT SUMMER SOIL MOISTURE IN PACIFIC NORTHWEST FORESTS AMIDST GLOBAL WARMING

Session: B, Breakout Room: #7

Niki Kirihara, @nikiKirihara, Program on the Environment, University of Washington

Site Supervisor: Rowan Braybrook, Northwest Natural Resource Group

Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

NAVIGATING THE FUTURE: SUSTAINABLE LAND SURVEYING TECHNIQUES

Session: B, Breakout Room: #8

Darcy McCluskey, @darcy mccluskey, Program of the Environment, Environmental Studies,

University of Washington

Site Supervisor: Brian Belvis, 1 Aliance Geomatics

Faculty Advisor: Gerald Beltran, Sellen Construction and University of Washington

EVALUATING A RURAL COMMUNITY'S FOOD ENVIRONMENT: HOW FOOD ACCESS PROGRAMS AT A FARMERS MARKET CAN IMPROVE FOOD EQUITY

Session: B, Breakout Room: #9

Leila Misallati, Program on the Environment, University of Washington

Site Supervisor: Lindsay Gilliam, Carnation Farmers Market

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

TRACKING THE TIDE: INVESTIGATING CRAB BIODIVERSITY AND SPAWN TIMING SHIFTS

Session: B, Breakout Room: #10

Christine Nguyen, @ChristineSzR, Program on the Environment, University of Washington

Site Supervisor: Aeriel Wauhob, Highline MaST Center Aquarium

Faculty Advisor: John Horne, School of Aquatic and Fishery Sciences, University of Washington

WORKING HARD OR HARDLY WORKING? HOW TO INCREASE EMPLOYEE ENGAGEMENT WITH SUSTAINABILITY

Session: B, Breakout Room: #11

Jen Ortiz, @JenO capstone, Program on the Environment, University of Washington

Site Supervisor: Erik Throndsen, Talking Rain

Faculty Advisor: Fred Pursell, Foster School of Business, University of Washington

CREATING FRUITFUL COMMUNITIES: IDENTIFYING BARRIERS AND SOLUTIONS TO ESTABLISHING AN EQUITABLE FOOD SYSTEM THROUGH URBAN AGRICULTURE

Session: B, Breakout Room: #12

Mya Sands, @myasando, Program on the Environment, University of Washington

Site Supervisor: Tiare Gill, City Fruit

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

CONVENTIONS, CARBON, AND CENTRALITY: METHODS FOR REDUCING EMISSIONS FROM TRAVEL IN THE EVENT AND CONVENTION INDUSTRY

Session: B, Breakout Room: #13

Erin Schobbe, @erinschobbe, Program on the Environment, University of Washington

Site Supervisor: Robert Gottschalk, AQ Green TeC

Faculty Advisor: Caitlin Ainsley, Department of Political Science, University of Washington

DRIVING CHANGE: SOLAR-POWERED TRANSPORTATION PATH TO A CARBON-FREE FUTURE

Session: B, Breakout Room: #14

Eddie Shelton, Program of the Environment, University of Washington

Site Supervisor: Jaime Cantos, Merlin Solar

Faculty Advisor: Barry Erickson, Foster School of Business, University of Washington

THE ROLE OF SOCIAL NORMS IN WATER CONSERVATION BEHAVIOR INTERVENTIONS

Session: B, Breakout Room: #15

Rhea Shinde, @rheashinde2, Program on the Enviornment, Philosophy, University of

Washington

Site Supervisor: Site supervisor: Liesel Hans, Alliance for Water Efficiency

Faculty Advisor: Salar Jahedi, Affiliate Professor, Economics, University of Washington and

Principal Economist, Amazon

HARVESTING SOLUTIONS: A STUDY OF BARRIERS TO ACCESS WITHIN ALTERNATIVE FOOD NETWORKS

Session: B, Breakout Room: #16

Ella Simmons, @ell a simmon, Program on the Environment, University of Washington

Site Supervisor: Shannon Bly, Whidbey Island Grown

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

REGENERATING PACIFIC NORTHWEST SALMON HABITAT THROUGH RIPARIAN RESTORATION

Session: B, Breakout Room: #17

Felicity Strzelec, @fsstrz, Program on the Environment, University of Washington

Site Supervisor: Whitney Neugebauer, Whale Scout

Faculty Advisor: Jason Toft, University of Washington School of Aquatic and Fishery Sciences

BE A GOOD SPORT, DON'T FORGET TO SORT: BEST PRACTICES FOR WASTE DIVERSION PROGRAMS IN SPORTS STADIUMS

Session: B, Breakout Room: #18

Maysen Westling, Program on the Environment, University of Washington

Site Supervisor: Karen Baebler, University of Washington Athletics

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

SUSTAINABLE ONLINE PRODUCE: GREEN MARKETING & KEY VARIABLES INFLUENCING CONSUMER PURCHASING BEHAVIOR

Session: B, Breakout Room: #19

Serena Zheng, Program on the Environment, University of Washington

Site Supervisor: Josh DeWitt, Kitsap Fresh Local Food Online

Faculty Advisor: Betsy Sperry, Marketing and International Studies, Foster School of Business,

University of Washington

DAY 2: ORAL PRESENTATIONS SYMPOSIUM & CELEBRATION

(December 6th)

4:30 PM - 4:40 PM Welcome & Housekeeping

4:40 PM – 5:10 PM Poster Highlights** & Refreshments

5:10 PM - 5:20 PM BREAK

5:20 PM – 5:25 PM Session Introduction

5:25 PM – 6:25 PM Lightning Talks Session A

MYCO-FILTRATION FOR CLIMATE RESILIENCE AND CIRCULARITY

Session: Day 2, In-Person

Keya Roy, @KeyaRRoy, Program on the Environment, University of Washington Site Supervisor: Tatiana Brown, University of Washington Campus Sustainability Fund Faculty Advisor: Ken Yocom, Landscape Architecture, University of Washington

FROM FIELDS TO TABLES: THE POWER OF FOOD PRESERVATION IN GLEANING ORGANIZATIONS

Session: Day 2, In-Person

Ezra Thomason, @oliveplanter, Program on the Environment, University of Washington

Site Supervisor: Bennett Walkes, City Fruit

Faculty Advisor: Yona Sipos, Department of Environmental and Occupational Health Sciences,

University of Washington

SMALL BUT MIGHTY: FORAGE FISH SIGNAL THE NEED FOR SHORELINE RESTORATION IN THE PUGET SOUND

Session: Day 2, In-Person

Arianna Fardad, Program on The Environment, University of Washington

Site Supervisor: Bianca Perla, Vashon Nature Center

Faculty Advisor: Jason Toft, Principle Research Scientist, Wetland Ecosystem Team, UW School

of Aquatic and Fishery Sciences

INTEGRATED IS BEST: HOW LIGHT RAIL AND BUSES WORKING IN CONJUNCTION WILL INCREASE THE USABILITY OF SEATTLE'S TRANSIT SYSTEM

Session: Day 2, In-Person

Jordan Priest, Program on the Environment, University of Washington

Site Supervisor: Arthur Bachus, Seattle Subway Foundation Faculty Advisor: Lyle Bicknell, University of Washington

TRANSIT-ORIENTED-DEVELOPMENT (TOD): A BLESSING OR ROADMAP TO GENTRIFICATION?

Session: Day 2, In-Person

Aliyah Recasner, @Aliyah_UW, Program on the Environment, University of Washington

Site Supervisor: Arthur Bachus, Seattle Subway Foundation

Faculty Advisor: Kessie Alexandre, Department of Geography, University of Washington

FROM THE GROUND UP: HOW TO INCORPORATE COMMUNITY VOICES ON ENVIRONMENTAL JUSTICE INTO THE NATIONAL ENVIRONMENTAL POLICY ACT

Session: Day 2, In-Person

Lucy Toner, @lucyjtoner, Program on the Environment, Law, Societies & Justice, University of

Washington

Site Supervisor: Arthur Bachus, Seattle Subway Foundation

Faculty Advisor: Lawrence Watters, Guest Faculty in Environmental Law, University of

Washington

6:25 PM - 6:40 PM Intermission

6:40 PM – 7:40 PM Lightning Talks Session B

TO BETTER SERVE OUR COMMUNITIES: INFORMING GOVERNMENT STAFF ON CONNECTIONS BETWEEN CLIMATE CHANGE AND SOCIAL JUSTICE

Session: Day 2, In-Person

Lyn Tampi, @LynTampi, Program on the Environment, School of Public Health, University of

Washington

Site Partner: Vicky Raya, King County Department of Natural Resources and Parks

Faculty Advisor: Meagan Doll, Department of Communication, University of Washington

CREATE YOUR OWN PATH: FIVE WAYS TO HELP CHILDREN MAKE BETTER CONNECTIONS WITH THE ENVIRONMENT

Session: Day 2, In-Person

Olivia Johnson, @oliviajohnson, Program on the Environment, University of Washington

Site Partner: Amanda Hipp, Islandwood

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

CONSERVE TO PRESERVE: HOW CITIES AND CITIZENS CAN COLLABORATE TO PROTECT WATER RESOURCES

Session: Day 2, In-Person

Lauren Church, @laurenchurch , Program on the Environment, University of Washington

Site Partner: Kirsten Harma, Chehalis Basin Partnership

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

CO-PRODUCING HOPE: EXPLORING THE BENEFITS AND CHALLENGES OF COMMUNITY-ENGAGED LEARNING IN UNIVERSITIES TO ENHANCE CLIMATE RESILIENCE

Session: Day 2, In-Person

Isabella Garrido, @bella_capstone, Program on the Environment, University of Washington

Site Partner: Zackery Thill, Climate Impacts Group, University of Washington

Faculty Advisor: Megan Ybarra, Department of Geography, University of Washington

SAVING THE ENDANGERED BLACK ABALONE: RECOMMENDATIONS FOR TRANSLOCATIONS AND CHARACTERIZING JUVENILE RECRUITMENT HABITAT

Session: Day 2, In-Person

Tiffany Shin, @tiffanyshin6, Program on the Environment, Political Science, University of

Washington

Site Partner: Susan Wang, National Marine Fisheries Service, West Coast Region Faculty Advisor: Lawrence Watters, Visiting Faculty of the College of the Environment,

University of Washington

TACKLING TRASH: UNDERSTANDING HUMAN WASTE BEHAVIOR IN HUSKY STADIUM

Session: Day 2, In-Person

Riley Ramirez, Program on the Environment, University of Washington

Site Partner: Karen Baebler, UW Athletics

Faculty Advisor: Christian Primack Metcalfe, Foster School of Business, University of

Washington

7:40 PM – 8:30 PM Symposium ends & celebration continues in Lobby

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!