Spring 2020
CAPSTONE SYMPOSIUM

Wednesday, May 27, 2020
Online, 4:30 – 6:30 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, #POEcapi.
4:30 pm  WELCOME & OVERVIEW

4:40 – 5:30 pm  POSTER SESSION I – Education & Outreach, Food Systems, Planning & Justice

TECHNOLOGY AS SCIENCE COMMUNICATION TOOL TO BENEFIT ENVIRONMENTAL EDUCATION
Session: Poster I, Breakout Room #1
Pranav Bhardwaj*, @pranavbhardwaj_, Program on the Environment, Earth & Space Science, University of Washington
Site Supervisor: Melissa Fleming, Stillwaters Environmental Center
Faculty Advisor: Drew Gorman-Lewis, Earth & Space Sciences, University of Washington

EVOLVING COMMUNICATION: HOW ENVIRONMENTAL OUTREACH MUST CHANGE WITH ITS AUDIENCE
Session: Poster I, Breakout Room #2
Jackelyn Briseno Arceo*, @BrisenoArceo, Program on the Environment, University of Washington
Site Supervisor: Jenny Heins, Sustainable Ballard
Faculty Advisor: Stanley Asah, School of Environmental and Forest Sciences, University of Washington

JOURNEY TO THE CENTER OF NATURE: CHILDREN’S CONNECTION TO THE OUTDOORS
Session: Poster I, Breakout Room #3
Sammy Chu*, @sammychu14, Program on the Environment, University of Washington
Site Supervisor: Hallie Sykes, Oxbow Farm and Conservation Center
Faculty Advisor: Peter Kahn, College of the Environment, HINTS Director, University of Washington

IMPACTS OF NITROGEN FIXING TREE INCORPORATION IN CACAO AGROFORESTRY SYSTEMS
Session: Poster I, Breakout Room #13
Duke Clinch*, @ClinchDuke, Program on the Environment, University of Washington
Site Supervisor: Samantha Zwicker, Hoja Nueva
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington

HOW NEWS ORGANIZATIONS CAN INCREASE THEIR TWITTER CLOUT AND FIGHT CLIMATE CHANGE
Session: Poster I, Breakout Room #4
Conor Courtney*, @conor_courtney, Program on the Environment, Journalism, University of Washington
Site Supervisor: Viccy Salazar, United States Environmental Protection Agency, Region 10
Faculty Advisor: Erika Schultz, Department of Communication, University of Washington
COMPUTER TECHNOLOGY’S ROLE IN LOCALIZING FOOD SYSTEMS
Session: Poster I, Breakout Room #14
Emily Forsberg*, @emilyforsberg6, Program on the Environment, Community Environment and Planning, University of Washington
Site Supervisor: James Maiocco and Bernice Alora, Barn2Door
Faculty Advisor: Branden Born, Urban Design and Planning, University of Washington

ENGAGING COMMUNITIES THROUGH ONLINE TOOLS IN GREEN INFRASTRUCTURE
Session: Poster I, Breakout Room #5
Jessica Garcia*, @JessicaG253, Program on the Environment, University of Washington
Site Supervisor: Emma Vowels, Stewardship Partners
Faculty Advisor: Yen-Chu Weng, Program on the Environment, University of Washington

GREEN GENTRIFICATION: THE HIDDEN INJUSTICE BEHIND GREENING COMMUNITIES
Session: Poster I, Breakout Room #19
Shawn Imamura*, @SlImamura0811, Program on the Environment, University of Washington
Site Supervisor: Karuna Poole, Green Seattle Partnership
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

COMMUNITY GARDENS AND RESOURCES – COMPLETING THE LOOP
Session: Poster I, Breakout Room #15
Claire Kasinadhuni*, @CKasinadhuni, Program on the Environment, University of Washington
Site Supervisor: Erika Kinno, Resource Recovery, King County Wastewater Treatment Division
Faculty Advisor: Sally Brown, School of Forest Resources, University of Washington

VISUAL COMMUNICATION IN THE AMAZON: PERSPECTIVES AND KNOWLEDGE ON RAINFOREST DEGRADATION
Session: Poster I, Breakout Room #6
Diana Kawczynski*, @KawczynskiDiana, Program on the Environment, University of Washington
Site Supervisor: Samantha Zwicker, Hoja Nueva
Faculty Advisor: Karen Litfin, Political Science, University of Washington

ENVIRONMENTAL EDUCATION: THE POWER OF RIBBITING DRAWINGS
Session: Poster I, Breakout Room #7
Ashley Lee*, @ashleylee_98, Program on the Environment, University of Washington
Site Supervisor: Hallie Sykes, Oxbow Farm & Conservation Center
Faculty Advisor: Jessica Thompson, College of Education, University of Washington
HOW URBAN SYSTEMS SHAPE CITIES: ENHANCING PUBLIC LIFE THROUGH GREEN STORMWATER INFRASTRUCTURE
Session: Poster I, Breakout Room #20
Stefan Mahler*, @Stef_Mahler, Program on the Environment, University of Washington
Site Supervisor: Hailey Mackey, Board & Vellum
Faculty Advisor: Jenn Engelke, Landscape Architecture, University of Washington

DIFFERENTIAL INSTRUCTION IN THE CONTEXT OF ENVIRONMENTAL EDUCATION
Session: Poster I, Breakout Room #8
Emily Minkus*, @EmilyMinkus, Program on the Environment, University of Washington
Site Supervisor: Hallie Sykes, Oxbow Farm and Conservation Center
Faculty Advisor: Jessica Thompson, College of Education, University of Washington

BRING THE OCEAN TO THE COUNTRY: HOW KELP AMENDMENTS ON GRASSLANDS CAN SEQUESTER CARBON
Session: Poster I, Breakout Room #16
Chrina Munn*, @chrinamunn, Program on the Environment, University of Washington
Site Supervisor: Eli Wheat, Skyroot Farm
Faculty Advisor: Brittany Johnson, Environmental and Forest Science, University of Washington

COMPONENTS INVOLVED WITH A SUCCESSFUL SMALL-SCALE RURAL WATER SUPPLY SYSTEM IN DEVELOPING COMMUNITIES
Session: Poster I, Breakout Room #21
Alex Peck*, @AlexpeckUW, Program on the Environment, Economics, University of Washington
Site Supervisor: Danielle Bogardus, Connect-3
Faculty Advisor: Sergey Rabotyagov, Environmental and Forest Sciences, University of Washington

ADDING ANIMALS TO ECOSYSTEMS: THE CASE FOR MANAGED LIVESTOCK GRAZING
Session: Poster I, Breakout Room #17
Bela Sanchez*, @bela8299, Program on the Environment, University of Washington
Site Supervisor: Eli Wheat, SkyRoot Farm
Faculty Advisor: Doug Collins, Center for Sustaining Agriculture and Natural Resources, Washington State University

DIGGING DEEPER: FEMALE IDENTITY IN SUSTAINABLE AGRICULTURE
Session: Poster I, Breakout Room #18
Natalie Schwartz*, @Natalie38477311, Program on the Environment, University of Washington
Site Supervisor: Kim Murchison, Clark Fork Organics
Faculty Advisor: Eli Wheat, Program on the Environment, University of Washington
EXAMINATION OF WESTERN WASHINGTON RESIDENTS’ BEHAVIORS, PERCEPTIONS, AND AWARENESS OF WILDFIRE.
Session: Poster I, Breakout Room #9
Ethan Sedgemore*, @EsedgemoreUW, Program on the Environment, University of Washington
Site Supervisor: Ashley Blazina, Washington State Department of Natural Resources
Faculty Advisor: Clare Ryan, School of Environmental and Forest Sciences, University of Washington

SIGNAGE SCIENCE: WHAT MAKES A SIGN EFFECTIVE?
Session: Poster I, Breakout Room #10
Melinda Skipworth*, @MelindaSkipworth1, Program on the Environment, University of Washington
Site Supervisor: Maggie Brown, Cedar Grove
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

PLACEMAKING IN PRESCHOOLS
Session: Poster I, Breakout Room #11
Kaelyn Thede*, @KaelynThede, Program on the Environment, Community, Environment and Planning, University of Washington
Site Supervisor: Sarah Heller, Fiddleheads Forest School
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

DEVELOPING INTERPERSONAL SKILLS THROUGH NATURE-BASED LEARNING
Session: Poster I, Breakout Room #12
Molly Thompson*, @mollllythompson, Program on the Environment, University of Washington
Site Supervisor: Carrie Guess, Wildflowers Preschool
Faculty Advisor: Alexa Schreier, Program on the Environment, University of Washington

5:30 – 5:40 pm BREAK
5:40 – 6:30 pm POSTER SESSION II – Policy & Regulation, Science & Restoration, Sustainability & Business

LINKING SALMON AND HUMAN HEALTH: COMMUNICATING THE SERVICES OF HABITAT RESTORATION
Session: Poster II, Breakout Room #11
Fiona Cromarty*, @fionacromarty1, Program on the Environment, University of Washington
Site Supervisor: Mara Zimmerman, Executive Director, Coast Salmon Partnership
Faculty Advisor: Eric Morel, Department of English, University of Washington
CLEARING MUDDY WATERS: INVESTIGATING THE VIABILITY OF MARKET-BASED INSTRUMENTS AS A TOOL FOR WATER QUALITY IMPROVEMENT
Session: Poster II, Breakout Room #1
Regina Durst*, @rsdurst, Program on the Environment, University of Washington
Site Supervisor: Hannah Clark, American Farmland Trust
Faculty Advisor: Dr. Nives Dolšak, School of Marine and Environmental Affairs, University of Washington

EFFECTIVE TRANSBOUNDARY MANAGEMENT IN THE SALISH SEA: AN EVALUATION OF THE JOINT STATEMENT OF COOPERATION
Session: Poster II, Breakout Room #2
Kristina Foltz*, @KristinaFoltz, Program on the Environment, University of Washington
Site Supervisor: Lisa Chang, United States Environmental Protection Agency, Region 10
Faculty Advisor: Thomas Leschine, School of Marine and Environmental Affairs, University of Washington

A STEP IN THE RIGHT DIRECTION: URBAN FOREST RESTORATION AND PREVENTING SOCIAL TRAILS
Session: Poster II, Breakout Room #12
Karly Lampard*, @larlykampard, Program on the Environment, University of Washington
Site Supervisor: Lisa McGinty, Friends of Lincoln Park
Faculty Advisor: Jim Fridley, School of Environmental and Forest Sciences, University of Washington

HOW SCALES MEASURE UP: A LOOK AT JUVENILE SALMON SCALES AS AN INDICATOR OF LENGTH & GROWTH
Session: Poster II, Breakout Room #13
Kerrianne McCarthy*, @KerrianneMcCar1, Program on the Environment, University of Washington
Site Supervisor: Beth Sanderson and Jennifer Gosselin, National Oceanic and Atmospheric Administration
Faculty Advisor: Mark Scheuerell, School of Aquatic and Fishery Sciences, University of Washington

3 WAYS TO RESTORE, MAINTAIN, AND IMPROVE CITIES
Session: Poster II, Breakout Room #14
Perla G. Moran*, @Perlam2uw, Program on the Environment, Environmental and Forest Sciences, University of Washington
Site Supervisor: Forest Steward Karuna Poole, Green Seattle Partnership
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington
COMMUNICATION IS KEY: AN ASSESSMENT OF OUTREACH AND COMMUNICATION TO AID ALASKAN TRIBES IN THEIR SOLID WASTE MANAGEMENT EFFORTS
Session: Poster II, Breakout Room #3
Lauren Neroutsos*, @Lneroutsos, Program on the Environment, Department of Communication, University of Washington
Site Supervisor: Angel Ip, United States Environmental Protection Agency, Region 10
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

WAYS TO USE COLLEGE ATHLETICS AS A PLATFORM FOR SUSTAINABILITY
Session: Poster I, Breakout Room #19
Avie Niece*, @AvieNiece, Program on the Environment, University of Washington
Site Supervisor: Karen Baebler, Assistant Director for Sport Operations, University of Washington
Faculty Advisor: Brian McCullough, Management, Sustainability in Sport Business, Seattle University

DATABASE DEVELOPMENT FOR TRACKING REGIONAL QUALITY ASSURANCE AND SCIENCE
Session: Poster II, Breakout Room #4
Ashton Pieris*, @PierisAshton, Program on the Environment, University of Washington
Site Supervisor: Donald Brown, United States Environmental Protection Agency, Region 10
Faculty Advisor: Ann Bostrom, Evans School of Public Policy & Governance, University of Washington

INCENTIVES COULD BE THE KEY TO MORE GREEN BUILDING
Session: Poster II, Breakout Room #20
Jeremy Pilgrim-Stoppel*, @stoppeljeremy, Program on the Environment, University of Washington
Site Supervisor: Jenny Heins, Northwest EcoBuilding Guild Green Home Tour Organizer
Faculty Advisor: Sergey Rabotyagov, Environmental Economics, University of Washington

THE UNSEEN EFFECT OF COASTAL CONTAMINATION
Session: Poster II, Breakout Room #15
Felix Reinhold*, @FelixReinhold2, Program on the Environment, University of Washington
Site Supervisor: Jody Frewin, Umvoto Africa
Faculty Advisor: Brooke K. Sullivan, Department of Landscape Architecture, University of Washington
TRIBAL CLIMATE ADAPTATION: RESTRUCTURING U.S. GOVERNMENT SUPPORT
Session: Poster II, Breakout Room #5
Sophia Romanelli*, @RomanelliSophia, Program on the Environment, Global Health, University of Washington
Site Supervisor: Viccy Salazar and Sarah Frederick, United States Environmental Protection Agency, Region 10
Faculty Advisor: Joshua Griffin, American Indian Studies, University of Washington

INVISIBLE CHEMICAL DANGER IN CHILD CARE FACILITIES
Session: Poster II, Breakout Room #6
Andrew B. Simpson*, @drewsimps842, Program on the Environment, University of Washington
Site Supervisor: Dr. Arthur Wendel: CDC, ATSDR, CSPECE
Faculty Advisor: Vanessa Galaviz, Department of Environmental and Occupational Health Sciences, University of Washington

SHOWING BIG BUSINESS THAT ON-SITE WASTE MANAGEMENT ISN’T A WASTE OF TIME
Session: Poster II, Breakout Room #21
James Stein*, @jstein_official, Program on the Environment, University of Washington
Site Supervisor: Lindsey Engh, Engh Group
Faculty Advisor: Catherine De Almeida, Department of Landscape Architecture, University of Washington

CHANGING PLANS IN A CHANGING CLIMATE: USING ENVIRONMENTAL PLANS TO UNDERSTAND TRIBAL CLIMATE ADAPTATION PRIORITIES
Session: Poster II, Breakout Room #7
Julie Tolmie*, @Julie.Tolmie, Program on the Environment, University of Washington
Site Supervisor: Viccy Salazar and Sarah Frederick, United States Environmental Protection Agency, Region 10
Faculty Advisor: Meade Krosby, Climate Impacts Group, University of Washington, and Northwest Climate Adaptation Science Center

IMPROVING COLLABORATION IN A LARGE SCALE FORESTATION PROJECT: WASHINGTON 20 YEAR FOREST PLAN
Session: Poster II, Breakout Room #8
Baljinnyam Tovuudorj*, @BaljinnyamTovu1, Program on the Environment, University of Washington
Site Supervisor: Amy Ramsey, Washington Department of Natural Resources
Faculty Advisor: Alexa Schreier, Program on the Environment, University of Washington
HOW CAN WE MAKE GRANT FUNDING PROGRAMS MORE EFFICIENT?
Session: Poster II, Breakout Room #9
Sam Warkentin*, @Sam_Warkentin2, Program on the Environment, University of Washington
Site Supervisor: Viccy Salazar and Michelle Wilcox, United States Environmental Protection Agency Region 10
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

HUMAN WILDLIFE CONFLICT IN THE PERUVIAN AMAZON
Session: Poster II, Breakout Room #16
Kera Zegar*, @kszegar, Program on the Environment, University of Washington
Site Supervisor: Samantha Zwicker, Hoja Nueva
Faculty Advisor: Aaron Wirsing, School of Environmental and Forest Sciences, University of Washington

HOW TO LEARN BELUGA WHALES COMMUNICATION WITHOUT TALKING TO THEM
Session: Poster II, Breakout Room #17
Alice Zheng*, @aliceqzuw, Program on the Environment, University of Washington
Site Supervisor: Manuel Castellote, National Oceanic and Atmospheric Association
Faculty Advisor: Kristi Straus, Program on the Environment, University of Washington

HOW TO UTILIZE VOLUNTEER RESOURCES IN LARGE-SCALE RESEARCH AND MONITORING
Session: Poster II, Breakout Room #18
Cole Zwierzynski*, @ColeZwierzynski, Program on the Environment, University of Washington
Site Supervisor: Lauren Kuehne, University of Washington
Faculty Advisor: Tim Billo, Program on the Environment, University of Washington

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!