

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

DRAFT

THURSDAY AM | 5.28.2020

ZOOM A

9:00 **Elizabeth Housley**
-9:50 **A BOUQUET OF BENEFITS:**
Floriculture and Ecosystem Gifts
in an Urban Industrial Zone

The floral industry is at once global and personal. Humans have smiled at a simple gift of a cut-flower for thousands of years. Although regional floriculture in the western U.S. is robust, the US imports over 75% of cut-flowers, contributing to global carbon emissions and landscape contamination. Local-based solutions can reduce environmental impact, provide an experience of place, and connect consumers to local flora. Many flowering plants possess the ability to filter pollutants (phytoremediation) in contaminated soil; a possible few could continue their lives as cut-flowers, essential oils, and biomass by-products. This design proposes suitable floral species for a phyto-to-market system, urban floral farm and garden sites within existing production landscapes, and an industrial "Flower District" network in Seattle's Georgetown neighborhood.

MODERATOR: Catherine De Almeida (chair)
+ Ken Yocom

reviewers:
Liz Browning
Riz Reyes
George Lee
Jean Ni
Elizabeth Umbanhowar

10:00 **Dylan Marcus, MLA/MUP**
-10:50 **UTILITY:**
Minimizing Costs & Maximizing Benefits along
Transmission Line Rights-of-Way

How can spatial analysis tools be used to inform right-of-way (ROW) planning, planting, and management decisions so that they can better respond to adjacent socio-ecological communities? High voltage transmission line ROWs cover millions of acres of the country, connecting cities to sources of electricity. This project looks at Seattle City Light's ROWs as functional corridors that maximize ecosystem services while minimizing management costs.

MODERATOR: Ken Yocom (co-chair)
+ Marina Alberti (co-chair) + Bob Freitag

reviewers:
Rory Denovan
Liz Browning
Jean Ni
Nicky Bloom
Boting Zhang

ZOOM B

Wenshuo Zhang
UNDERSTANDING BICYCLING BEHAVIOR OF A
STUDENT POPULATION: A Case Study in the UW
College of Built Environments

Bicycling can be a transportation mode and a form of exercise that offers both environmental and health benefits, but the use of bicycles is different between groups of people. My thesis investigates the bicycling behavior of College of Built Environments (CBE) students, which is a special group of cyclists for a variety of reasons. Specifically, my thesis answers the following questions: What patterns of bicycling are shown among CBE students? What factors shape CBE students' bicycling behavior? How might the CBE culture shape students' bicycling behavior? My thesis gathered information via a survey (N=88) and 17 in-depth interviews, and applied both quantitative and qualitative methods to answer research questions. It intends to provide information for bicycling advocacy within and beyond the CBE context.

MODERATOR: Rachel Berney
+ Lynne Manzo (chair)

reviewers:
Nicky Bloom
Jenn Engelke
Sandy Fischer
Brooke Sullivan
Tatyana Vashchenko

Michelle Woo
Finding Common Ground through a Multicultural
Food Forest along the Seattle Waterfront In
Response to the History of Chinese Immigration
and Exclusion

This thesis explores a systems thinking approach through speculative and creative storytelling. As a response to the history of Chinese immigration and exclusion in Seattle, I reimagine an inclusive future that memorializes people, culture, and history through a multicultural food forest along Pier 48. Fungi, an imported culturally relevant food source, contributed to the physical strength of Chinese railroad workers known to work longer and harder than non-Chinese workers. Using fungi as a character in storytelling and a symbol for resilience for the International District community and beyond, the story follows how people can embrace their "inner fungi" and learn from this non-human relative which also facilitates interspecies connection as a metaphor to band across ethnic lines in order to imagine a more socially resilient, multicultural future.

MODERATOR: Julie Johnson (chair) + Lynne Manzo
Sandy Fischer **Tatyana Vashchenko**
George Lee **Elizabeth Umbanhowar**
Jenn Engelke

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ZOOM A

11:00 Matt Grosser

**-11:50 DESIGN WITH DIPLORIA:
Coral Infrastructure for a New Coastal Future**

The growing stressors of global climate change and urbanization have brought about the decline of one of our planet's most critical biomes - coral reefs. How can design contribute to the recolonization and resilience of coral ecosystems? As coral reefs vanish, we lose not only their surrounding ecologies and economics, but also the structural complexity that allows them to efficiently serve as natural breakwaters, which protect coastlines from flooding and erosion. How can urban resilience be fostered in tandem with coral resilience? Could urban activity be reconciled with coral ecosystem health in a way that creates equity and kinship across species lines? Design with Diploria showcases a multi-site response to these quandaries within Miami's urban context by working to restore an enigmatic, but diminished, local ecosystem as an infrastructural and social resilience strategy.

MODERATOR: Ken Yocom (chair)
+ Jacqueline Padilla Gamino

reviewers:

Jean Ni
Tatyana Vashchenko
Brooke Sullivan
James Wohlers
Elizabeth Umbanhowar

ZOOM B

Dorothy Mulkern, MLA/MUP

**Investigating Grassroots Strategies
for Sea Level Rise Adaptation in Island County**

In 2019, Island County enlisted Washington Sea Grant and UW Urban Planning students to identify and recommend best management practices for sea-level rise adaptation measures for property owners and neighborhoods. This thesis reviews the process of creating the Island County Sea Level Rise Study. The study used qualitative methods to examine available strategies and makes recommendations for three at-risk coastal districts on Whidbey and Camano Island: historic beach, bluff and canal communities.

MODERATOR: Julie Johnson (co-chair)
+ Dan Abramson (co-chair)

reviewers:

John Small
Sandy Fischer
Nicky Bloom
George Lee
Jenn Engelke

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

THURSDAY PM | 5.28.2020

ZOOM A

1:00 **Sarah Wallace, MLA/MUP**
-1:50 **SEATTLE'S WATERFRONT:**
An Exploration in Site Analysis

In February 2001, the Nisqually Earthquake shook the Seattle Waterfront, damaging the Alaskan Way Viaduct. The damage to the Viaduct initiated a larger conversation about the use of this valuable space. The future of the Seattle Waterfront was in question, leaving the people of Seattle to imagine an alternative design for the waterfront. In this thesis, I investigate the existing waterfront and the conceptual design to understand the current conditions and planned future for the central waterfront. I use an exploration in site analysis to comprehend the waterfront, selecting three sites as my focus areas. The investigation analyzes the site through diagrammatic techniques and exploratory mapping and creates a better understanding of my site analysis process as a designer.

Daniel Winterbottom (co-chair)

+ **MODERATOR: Branden Born** (co-chair)

reviewers:

George Lee
Boting Zhang
Nina Mross
Lyle Bicknell
Jean Ni

2:00 **Jingjing Bu, MLA/MUP**
-2:50 **EXPERIENCE DESIGN: A Human-Centered**
Method Applied to University District in Seattle

This thesis explores how human-centered methods can be applied in urban experience design. Based on the urban experience guiding principle that generalizes and summarizes from the theoretical grounding and case studies. Utilizing a double diamond model approach and interdisciplinary theories, this design thesis examines the application of the Design Framework both empowering the design thinking and guiding the creation of both a master plan and detailed site plan for the NE Campus Parkway spanning five blocks within the University District in Seattle. The design proposal highlights the application of different typologies that enlighten people's urban design experiences. The framework is aiming to serve as a recommendation program implemented beyond this confined site.

Daniel Winterbottom (co-chair)

+ **MODERATOR: Bob Mugerauer** (co-chair)

reviewers:

Lyle Bicknell
Jean Ni
Nina Mross
James Wohlers
George Lee

ZOOM B

Stuart Johnson
FUTURE FORESTS OF BAINBRIDGE ISLAND;
Climate Change Vulnerability and Continuing
Progressive Action

Forests continue to be of immense significance to Bainbridge Island's sense of place, as well as to supporting essential functions in this eco-region. Climate change is presently altering the physical and biological conditions that influence forest character, some environmental impacts being increased tree mortality and modified forest disturbance regimes. Working on three stratified sites across Bainbridge Island, investigation and observations are compiled to present a vulnerability assessment model and develop a management continuum for progressive action. Through GIS analysis, I spatially identify probable physical vulnerabilities, then develop a survey protocol to reveal canopy conditions and changes using drone technology. Management action is focused on tree selection and planting, presenting a catalog of suitable species and genetics across the intervention spectrum.

MODERATOR: Nancy Rottle (chair)

+ Catherine De Almeida

reviewers:

Craig Skipton
James Wohlers
Brooke Sullivan
Sandy Fischer
Magda Hogness

Yuansi Cai, MLA/MUP
Rethinking the Potential of Interdisciplinary Studio
at UW College of Built Environments

Interdisciplinary collaboration has become a key strategy in the field of built environment to understand and address complex environmental and societal issues. What are the realities when applying this concept to built environment education in a studio format? This study researches the past ten years interdisciplinary studios in the College of Built Environment (CBE) at the University of Washington. Through interviewing studio instructors on their philosophy of interdisciplinarity and studio pedagogy, the study explores how interdisciplinary studios were taught, challenges persist, and the future potentials for the interdisciplinary studio at UW-CBE.

MODERATOR: Julie Johnson (co-chair)

Branden Born + Rachel Berney (co-chairs)

reviewers:

Rachel Miller
Brooke Sullivan
Boting Zhang
Craig Skipton
Sandy Fischer

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

FRIDAY AM | 5.29.2020

ZOOM A

9:00 **Krista Doersch**
-9:50 **PIER PRESSURE: Ecological Impacts and Design of Overwater Structures in Lake Washington's Union Bay**

Along much of Seattle's freshwater shorelines, seemingly isolated problems like erosion and shading are compounded and repeated by docks, piers, and houseboats. This results in a much bigger ecological problem: the erasure of the critical nearshore habitat that supports all life in the lake. How can man-made overwater structures bolster the lacustrine environment? This design thesis considers the existing conditions of five representative zones along the University of Washington's waterfront. Insights from restoration ecologists, engineers, local experts, and trends in aquatic infrastructure inform the design of this urban site. Pier Pressure proposes holistic solutions through a systems approach that enhances built interventions through ecological design.

Nancy Rottle (chair) +

MODERATOR: Ken Yocom

reviewers:

Kasia Keeley **Patrick Pirtle**
John Small **Kas Kinkead**
Jescelle Major

10:00 **Peter Samuels**
-10:50 **MARKING RISK AND RESPONSE: Citizen Science Monitoring Network along the Trans Mountain Pipelines**

How can community-based monitoring create much needed visibility and oversight of buried tar sands pipelines that traverse human and non-human communities? The Trans Mountain Pipeline conveys up to 12.6 million gallons of diluted bitumen per day from the Athabasca Oil Sands of Alberta to ports in Vancouver (B.C.) and Washington, with construction underway on a second, paralleling pipeline that triples capacity. This thesis imagines how pipeline landscapes can be grounds for a network of citizen scientists that expresses agency through data collection, analysis, and landscape-based response. The result is legibility of interactions between pipeline, ecologies, and human communities. This challenges industry status quos, where data is shrouded within what STS scholar Sara Ann Wylie calls "a regime of imperceptibility."

MODERATOR: Catherine De Almeida (chair)
+ Jeff Hou

reviewers:

Jescelle Major **Kasia Keeley**
Kas Kinkead **John Small**
Patrick Pirtle

ZOOM B

Janie Bube + Amanda Dinauer
LIVING ART:
Using a methodological framework to translate famous paintings to living artwork

Project Goals:

- Understand the psychology of space and the importance of the environment around us to help substantiate our conversion of paintings to plantings
- Create a replicable process of translating a work of art to a living canvas (i.e. living wall installation)
- Consider factors like scalability, marketability, and client relations in order to bring this project to the professional realm
- Present project results in unique format, i.e. gallery space.

MODERATOR: Lynne Manzo (chair)

reviewers:

Kristi Park
Laura Haddad
Rich Desanto
Sam Powers
Jordan Houghton

Lauren Iversen
WILD CHILD:
Narrative Landscapes to Cultivate Creativity and Connections to Nature

Folklore, fiction, fantasy, poetry. Stories for children are grounded in their landscapes. How do stories children listen to and read come alive in the landscape? How does the human connection to story become a tool to improve the child-nature connection? Children are increasingly growing up in urban environments and their access to 'wild nature' is limited, hindering a healthy connection to the native environment. This project aims to understand the connections between stories and land to increase children's creativity and relationship with nature. Storytelling and creation become the vehicle for engaging deeply in the wonder and awe of the native ecosystem. The methods are explored as landscape interventions in Las Vegas, Nevada.

MODERATOR: Julie Johnson (chair) + Nancy Rottle

reviewers:

Carrie Culp
Laura Haddad
Amy Wagenfeld
Louise Chawla
Victoria Derr
Kristi Park

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

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ZOOM A

11:00 **Hope Freije + Rhiannon Neuville**
RAINFOREST, AIRPORT, PARK:
-11:50 Navigating extractive entanglements through the synthesis of infrastructure and ecological function in Iquitos, Peru

Urban landscapes have become characterized by static, impervious systems, disconnected from nature. In Iquitos, a city of half-a-million in the Peruvian Amazon, attempts to replace natural systems with engineered infrastructure have yielded unhealthy conditions for both the human residents and the surrounding ecology. As Peru unrolls a national initiative to build commemorative Bicentennial parks, we envision this as an opportunity to revive an economy that has suffered from boom and bust cycles of extractive industries. This thesis explores the relationship between conventional city infrastructure and natural systems in the Amazon region across spatial and time scales to answer the question; how can urban parks serve as critical infrastructure to support the local economy, address human and ecological health, and celebrate cultural identities?

MODERATOR: Julie Parrett (chair)
+ Leann Andrews

reviewers:

Coco Alarcon **Jack Alderman**
Mackenzie Waller **Andrew Prindle**
Kasia Keeley

1:00 **Rebecca Bachman**
-1:50 **REIMAGINING THE AMPHIBIOUS CITY:**
from health data to ecological design in an urban Amazonian informal community

Water circumnavigates the Amazon basin's urban centers, blurring lines between city and river. As Amazonian cities swell, growing populations inhabit the wet edges of the urban landscape. These amphibious communities are often informal and are disproportionately vulnerable to health risks tied to socioeconomic inequality, climate change, and urbanization. How can health data drive community-centered redevelopment to align with UN Sustainable Development Goals? How can design mitigate the risk of exposure to infectious diseases? This design research centers on water-related human health in Claverito, an amphibious informal community in Iquitos, Peru, to examine the built environment as a social determinant of health and demonstrate possibilities for evidence-based ecological design in informal community upgrading.

MODERATOR: Nancy Rottle (chair)
+ Leann Andrews

reviewers:

Patrick Pirtle
Audrey West
Coco Alarcon
Jack Alderman
Laura Durgerian

ZOOM B

Asya Snejnevski
NOURISHING NEIGHBORHOODS:
Cultivating Local Food Connections in the Urban Environment

Have you ever walked by fruit trees in your neighborhood and wondered what kind of fruit they were producing and whether you could pick it? By tracing the history of food in Seattle, from the native plants that have long fed Coast Salish people to the globally sourced food imported today, this design research examines local food production systems in Seattle's neighborhoods and how they can be enhanced for the future. How can urban food that is cultivated on public land nourish neighborhoods while providing opportunities for education and engagement? This exploration demonstrates how app technology, mapping, and recipes can connect communities to urban nature and food history.

MODERATOR: Ken Yocom (chair)

+ Julie Johnson

reviewers:

Maren McBride
Rich Desanto
Laura Haddad
Kristi Park
Carrie Culp

Jackie Donovan
EMBODYING ENVIRONMENTAL LEGACY:
through the lens of E-textiles Entanglements

In the Anthropocene scope, the landscape is seen as a viewable object, something to admire not to exist in. The state of embodiment counter-acts this acknowledgment, as the kinesthetic and site awareness, connects the relationship of body and land. This design and creation of this e-textiles piece "Embodiment of Environmental Legacy" was in hopes to implement systems thinking and to get rid of the notion of landscape being an intensely visual idea. The site has layers of history that can be revealed by the analysis and sense of the user. The sensor is a capacitor, which measures the absence or presence of objects through the electrical field created by the sensor. There are two gloves: on the right hand, the capacitor turns outward toward the urban landscape, and left-hand turns inward, measuring skin resistance. Through sound, one can hear the existence of the body and/or land in space. This is where I offer to explore the site through embodiment and analysis.

MODERATOR: Lynne Manzo (chair)

+ Daniel Winterbottom

reviewers:

Andrew Prindle **Carrie Culp**
Vinita Sidhu **Rich Desanto**
Jim Brennan **Maren McBride**

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

FRIDAY PM | 5.29.2020

ZOOM A

2:00 **Lihui Yang**
-2:50 **URBAN BIRD SANCTUARY DESIGN:**
abandoned structures in dense city area as
urban bird habitat

In the context of urbanization nowadays, it has become an inevitable trend that some birds will nest in cities, and some of them are endangered. However, creating bird habitats in highly dense city areas has always been challenging since land is fragmented and exposed nests are under the threats of predators and human disturbance. Therefore, using abandoned structures in cities as habitats in protected areas for endangered urban birds should be taken into consideration, and this kind of protected habitats in cities can be seen as "urban bird sanctuary". It is important not only for its ecological value, but also for its educational effect on the public, help in building a positive relationship among birds, bird colonies, and human-beings. How to create this healthy coexistence will be the main focus of my works.

MODERATOR: Nancy Rottle (chair)
+ Daniel Winterbottom

reviewers:
Coco Alarcon
Audrey West
Jack Alderman
Antony Shadbolt
Colin Meurk

ZOOM B

Ilsa Barrett
VOICES OF IMPACT:
Assessing felt impacts of open pit gold mining
in British Columbia

Northern British Columbia is rapidly becoming one of the largest open-pit gold and copper mining regions in the world. Salmon-bearing river systems connect communities of Southeast Alaska and British Columbia, supporting rich ecological diversity. Subsistence lifestyles that have supported First Nations people for over 10,000 years are in jeopardy as a result of irresponsible mining practices and inadequate public consultation. The rapid growth of this extraction industry has compromised downstream fishing economies, cultural traditions and identities that depend on healthy rivers and landscapes. This project uses story mapping as a tool to analyze the impacts experienced by people in the watershed and highlight the need for bringing more human experience into environmental impact assessments.

MODERATOR: Ken Yocom (chair)
+ Catherine De Almeida

reviewers:
Vinita Sidhu
Andrew Prindle
Carrie Culp
Maren McBride
Jim Brennan

3:00 **Olivia Lott**
-3:50 **GIVE ME A CLEAN DEATH; The Adaptive Reuse of**
Historic Industrial Sites as Modern Cemeteries

Thousands of tons of carcinogenic chemical preservatives are interred in the ground every year by the modern death care industry in the United States alone. At the same time, we are simply running out of space to house our dead, (especially within our urban metropolitan centers.) This thesis proposes that we rethink how we, as a society, collectively choose to approach the death care industry, repurposing neglected, non-functional spaces within our urban fabric, and transforming them into modern cemetery sites, utilizing sustainable death-care methods such as human composting and bio-cremation.

MODERATOR: Lynne Manzo (chair)
+ Kathryn Rogers Merlino

reviewers:
Jim Brennan
Maren McBride
Laura Durgerian
Andrew Prindle
Vinita Sidhu

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

GUEST REVIEWERS:

Coco Alarcon: PhD student, UW Department of Global Health, Implementation Science, Seattle WA

Jack Alderman: Landscape Designer, HBB Landscape Architecture, Seattle WA

Lyle Bicknell: Urban Designer, City of Seattle; Affiliate UWLA, Seattle WA

Nicky Bloom: Landscape Designer, Mithun, Seattle WA

Jim Brennan: Principal, J.A. Brennan Associates, Seattle WA

Liz Browning: Landscape and Urban Designer, Osborn Consulting; Lecturer, UWLA, Seattle WA

Louise Chawla: Professor Emerita at University of Colorado, Boulder, CO

Carrie Culp: RLA, Urban Oasis, Seattle, WA

Rory Denovan: Corporate Policy and Government Relations, Seattle Public Utilities

Victoria Derr: Assistant Professor at California State University Monterey Bay, CA

Rich Desanto: Artist, Haddad|Drugan, Seattle WA

Laura Durgerian: RLA and Urban Designer, Mithun, Seattle WA

Jenn Engelke: PhD Candidate and Lecturer, UW College of Built Environments, Seattle WA

Sandy Fischer: FASLA, Fisher Bouma Partnership, Bainbridge, WA

Laura Haddad: Artist/RLA, Haddad|Drugan, Seattle, WA

Jordan Houghton: Assistant Director, UW Student Veteran Life

Kasia Keeley: Landscape Designer, Mithun, Seattle WA

Kas Kinkead: Principal, Osborn Consulting, Seattle WA

George Lee: Founder, Creative Director, Glee Studio, Seattle WA

Maren McBride: RLA, Berger Partnership, Seattle WA

Jescelle Major: Associate, Berk Consulting, Seattle WA

Colin Meurk: Ecological Scientist, Manaaki Whenua - Landcare Research, Christchurch NZ

Rachel Miller: Planner/Urban Designer, Makers, Seattle WA

Nina Mross: Landscape Designer, Mithun, Seattle WA

Jean Ni: Landscape Designer, GGN, Seattle WA

Kristi Park: RLA, BioDesign Studio and Lecturer, UWLA, Seattle WA

Patrick Pirtle: Landscape Designer, Site Workshop, Seattle WA

Sam Powers: PhD, Director, UW Student Veteran Life

Andrew Prindle: Landscape Designer, Fletcher Studio, San Francisco CA

Riz Reyes: Horticulturalist/Floral Designer, RHR Horticulture & Landwave Garden, Seattle WA

Antony Shadbolt: RLA, Director - Landscape Ecology New Zealand Limited (LENZ Ltd), Christchurch NZ

Craig Skipton: Director of Landscape Architecture, AHBL, Seattle WA

Vinita Sidhu: Principal, Site Workshop, Seattle WA

John Small: Partner, Anchor QEA, Seattle WA

Brooke Sullivan: PhD, Landscape Designer, Back to Nature Design and Lecturer, UWLA, Seattle WA

Elizabeth Umbanhowar: PhD Candidate and Lecturer, UW College of Built Environments

Tatyana Vashchenko: Designer, Agency Landscape + Planning, Cambridge MA

Amy Wagenfeld: PhD, Therapeutic Design Consultant, Researcher, and Writer, Tampa FL

2020 UW MASTER OF LANDSCAPE ARCHITECTURE CAPSTONE FINAL PRESENTATIONS

Mackenzie Waller: Principal, Broad Studio and
Lecturer, UWLA, Seattle WA

Audrey West: Principal, West Studio. Seattle WA

James Wohlers: Landscape Designer, J.A.
Brennan Associates, Seattle WA

Boting Zhang: Real Estate Strategist, City of
Seattle, Office of Planning and Community
Development Equitable Development Initiative