9:00-9:30. WELCOME [159 MULFORD]

SESSION 1. 9:30-10:45

ECOLOGY & EVOLUTION

MARINE & FRESHWATER SCIENCES

THE BUSINESS OF GREENING

159 Mulford

Sean O'Neil Batrachochytrium dendrobatidis is a Really Big Word and a Really Big Problem

Claudia Ruslim Into the Spider-verse of Sulawesi: Changes in Spider Community along Gradients of Elevation and Loss of Forest Cover

Kavya Niranjan As the Bee Flies: Native Bee Diversity in Brentwood, CA

Chellam Nayar Composition and Diversity of a Frog-killing Fungus in the California Bay Area

Shuanger Li Ginger Invasion in Hawaii: Sampling Arthropod Assemblages through Metagenomics of Spider Gut Contents

101 Morgan

Fatima Mahmud Habitat fragmentation Impacts on Productivity of Seagrasses in the Central Red Sea

Colette Christensen Pretty Fly for a Caddisfly: Species Identification via Wing Morphometrics

Marc Leong Buried Alive? The Effect of Sediments on White Abalone Larvae Settlement

Daisy Cervantes-Hernandez Suisun Bay, California: How are Fish Assemblages Organized?

Nika Hoffman Water Quality and Autonomous Surface Vessel Technology in the Ala Wai Canal

132 Mulford

Andrea A. Bassetti Leveraging Ecolabel Standards to Propose Sustainable Practices for Products without Certifications

Emily Yan Green Business or Greenwashing: The Value of Green Business Certifications to Berkeley Students

Roxanne "Roxi" Shiu Care to Share? Perceptions and Uses of Ford GoBikes

Alina Xu Fashion Futures: Designers & Green Values

Sky Daye Lee Capitalizing on Social Media Addiction in South Korea: Green Marketing Opportunities for the Cosmetics Industry

10:45-11:00. MORNING COFFEE BREAK [MORGAN PATIO & LOUNGE]

SESSION 2. 11:00-12:30

ECOSYSTEM ECOLOGY & FOREST MANAGEMENT

SUSTAINABILITY & WASTE MANAGEMENT

ENVIRONMENTAL EDUCATION, HEALTH & CULTURE

159 Mulford

Sophia B. Bagshaw Coast Redwoods and Climate Change: Age-based Differences in Hydraulic Traits

Maeve O'Brien Hanafin Mapping the Route of the Problem: Bark Beetle and Drought Induced Tree Mortality in the Sierra Nevada

Robin Zhang Deadliest Fire in California History: Air Quality in Berkeley during the Camp Fire

Clemente Arreguin Maximizing Carbon Sequestration in Oak Woodlands: Disturbance Influences on Live Tree Carbon Stocks

Benjamin Kopania A Comparison of Methods for Obtaining Aboveground Biomass Estimates Using Terrestrial LiDAR

Caroline Ayala Fuel Treatment Effects on Species Composition in Mixed-Conifer Forests of the Sierra Nevada

101 Morgan

Sophie K. Babka A Breakdown of Compostable Plastic Recovery in California

Scott Silva Optimizing the UC Berkeley Plastic Recycling Facility

Jon Abdon Wetland Restoration using Biosoilds as a Soil Amendment

Ryan DeGeer A Source of Sexual Dysfunction: Estrogen Output from Wastewater Treatment Plants to the San Francisco Estuary

Karina Aguilera Environmental Health Impacts of an Unregulated Landfill on Residents of Salamanca, Mexico

Yirong Chen Evaluating the Long-Term Impact of Pilot Programs on Waste Separation in Shanghai

132 Mulford

Cindy Valdivia Home is Where Your Food is: Cal Students and Culturally Appropriate Food

Giselle Serafin Bridging Connections: Environmental Justice Organizing in the Inland Empire

Sinareth Sagn Regeneration after Year Zero: Khmer Elders' Perspectives on PTSD and Gardening

Helena Chang Escaping the Gap: Escape Rooms as an Environmental Education Tool

Kumi Yanagihara What Did You Really Learn in High School? AP Environmental Science Student Perspectives on Environmental Problems

Bori Kozek End of the world or beginning of hope? How high school students engage with global environmental discourse

SENIOR THESIS SYMPOSIUM SATURDAY, APRIL 20TH, 2019

Dennis Baldocchi, ES Program Director Patina Mendez, ES Lecturer Kurt Spreyer, ES Lecturer Leslie McGinnis & Ellen Plane, GSIs

UC BERKELEY ENVIRONMENTAL SCIENCES

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SESSION 3. 1:30-2:45

POLITICAL ECONOMY OF LANDSCAPE & CLIMATE AGRICULTURAL SYSTEMS NATURAL RESOURCES 159 Mulford 132 Mulford 101 Morgan Victoria Marie Glynn Keeping Healthy in California's Erin Murphy Nutrient Cycling in Organic and Neena Mohan Land Grabbing in Sub-Saharan Africa: Drivers of Investment Under Climate Change Central Coast: Interactions between Land Use and Conventional Agricultural Systems with Winter Avian Life History Cover Crops Aditya Mistry "Netas" vs Nature: A Review of **Emily Cox** Daisies in Distress: Growth responses of Corruption's Effects on Natural Resource Le "Tim" Lu Assessing Gross Primary Productivity of Lasthenia gracilis to Simulated Drought over a Management in India Cropland – An Index and Instrument Perspective Geographic Gradient **Shuhan Song** To Be or Not to Be: The Fate of Ten Lisa Mengai Wu Water Stress and the International Carter Ly Playing with Dirt: Organically-coated Amphibians in the Sierra Nevada in a Warming Soy Bean Trade Biochar, Compost and Soil Quality Climate Nidhi Menon Food Expenditure and Household Madeleine Zuercher Bat Conservation: Species Guozheng Li GIS-based Agricultural Land-use Welfare in India: MGNREGA Program Outcomes Presence and Activity across Landscapes in Iowa Evaluation in the East Bay Martin Zhou The Future of Hydropower in Sichuan Katelyn Yu Looking from Space: Water Use Province, China: Effects of Expanding the Grid Efficiency of California Evergreen Species from Isaac Vendig Getting to the Roots: No-Till Soil

2:45-3:00. AFTERNOON COFFEE BREAK [MORGAN PATIO & LOUNGE]

SESSION 4. 3:00-4:30

System on Installed Capacity

WILDLIFE ECOLOGY, CONSERVATION & MANAGEMENT

159 Mulford

Michael Gallegos Just Keep Digging: Searching for Elusive Legless Lizards

Trisha Daluro Is Wildlife Afraid of You and Your Dog? Of Cows? Camera Trap Monitoring of Human Disturbances to Mammals

Brice Hagan Mitigating Conflict Between Tule Elk Conservation and Point Reyes Ranching

Alexa Frederick Who's Covering the Bill? The Role of Compensation Schemes in Human Wildlife Conflict

Yujing Wu Impacts of Urbanization on Bird Abundance and Diversity in the East Bay

Christopher Orner Occupancy of Riparian Birds in the Southern Central Valley

SOIL & PLANT ECOLOGY

101 Morgan

OCO-2 Satellite Data

Annie McElvein The Permafrost Is Thawing and This Is How

Zahira Chaudhry Carbon Sequestration in the San Joaquin Delta

Hans Singh A Comparison of Winter and Summer Microbial Culture Libraries from an Alpine Soil Ecosystem

Alicia Sadowski Short-term Response to Catastrophic Disturbance: Biogeochemistry of Plant Litter in Puerto Rico after Hurricane Maria

Hannah Marsh Can Applying Food Waste Compost to Grassland Soils Mitigate Climate Change?

4:30 - CLOSING COMMENTS

Structure and Hydrology

[IN SESSION]

OUR SINCERE THANKS TO the faculty, postdoctoral researchers, graduate students, staff and community members who generously mentored students - your contributions clearly inspired and enriched the senior thesis experience. We also thank Ginnie Sadil for help organizing this event and the CNR Advising team, peer advisors and work-study students for their assistance. Special thanks to ES Director Dennis Baldocchi, ESPM Chair George Roderick, John Battles, Rebecca Sablo, the Department of Environmental Science, Policy & Management and UC Berkeley's College of Natural Resources.



