**SPRING 2016 SEP CAPSTONE FESTIVAL**

Science & Environmental Policy

Thursday, May 19, 2016

9:00am - 5:00pm

Tanimura & Antle Family Memorial Library, Room 1180

**9:00 - 9:05 ~ Welcome**

* Dr. Doug Smith, Chair, Division of Science and Environmental Policy

**ORAL PRESENTATIONS**

**9:05 - 9:35 ~ ESTP**

* **Effects of Sheep Grazing on Fort Ord National Monument: Good or Baaaad?**

-Erin Goetz, Fletcher Holst, Shu Kita, Lucinda Landon, Brittney Morgan, Jason Nelson, Allison Nunes, Kristen Seuis, Rachel Spellenberg, Ethan Stewart

-Advisor: Dr. Suzy Worcester (15 mins)

* **Another Dam Project: First Assessment of  the Carmel River Restoration Project**

-Jordan Besson, Mitch Gravelle, Laura Marson, Ronell Santos, Mia Sosa, Kelsey Thompson

-Advisor: Dr. Doug Smith (15 mins)

**9:35 - 11:00 ~ MSCI**

* **Effects of hypoxia on the copper rockfish (*Sebastes caurinus*) transcriptome**

-Paul Castro, Joe Casarez, Shannon Cornick, Emily Doyle, Emily King, Sara Bear Magallanes, Hope Martin, Diana Moreno, Judith Rutherford

-Advisor:  Dr. Cheryl Logan (15 mins)

* **Making Sense out of Dollars: Seeing Change over Time on the Sea Floor**

-Hunter Burnham, Jorge Chagoya, Carolyn Erickson, John Freutel, Madeleine Harris, Trevin Li, Jesse Ng, Lauren Powell, Jessamyn Weld, and Charnelle Wickliff -Advisor: --Advisor: Dr. Steve Moore (15 mins)

* **Marine debris on sandy beaches of Monterey Bay, CA: A comparative study in time and space**

- Joshua Canepa, Joane Contawe, Jordan Duffner, Shannon Mone, Connor Rudd, and Bailey Warren

- Advisor: Dr. Kerry J. Nickols (15 mins)

* **Designating the Chumash Heritage National Marine Sanctuary**

-A. Aceves, M. Alvarez, M. Berkowitz, M. Campos, E. Doyle, H. Dunn, D. Hensley, K. Johnson, L. Juarez, A. Leal, K. O’Husky, I. Thomas, N. Tran

-Advisor: Dr. James Lindholm (15 mins)

* **Landscape ecology of near-shore biological communities along the California coast: results of SCUBA-based visual census surveys**

-Nicole Alvarado, Marc Berkowitz, Tyler Gerome, Robert Holbrook, Nicholas Knauss, Yerlany Mendez, Katherine Neylan, Zachary Nyquist, Nicholas Ta, and John Tench

-Advisor: Dr. James Lindholm (15 mins)

* **The Sandy Bottom Project**

-Jesirae Collins

-Advisor: Dr. Corey Garza (10 mins)

**11:00-11:40 ~ BIO**

* **Detection of *Erysiphe necator* fungicide resistant alleles in environmental samples using a TaqMan assay**

-Jesse Yamagata

-Advisors: Dr. Tim Miles (research) & Dr. Charmaine Robinson (capstone) (10 mins)

* **A quantitative study on Juniper and Pinyon biomass within the Sevilleta National Wildlife Refuge, New Mexico**

-Briana Becerra

-Advisor: Dr. Charmaine Robinson (10 mins)

* **A Culturally Relevant Plan for Nutrition Education in East Salinas**

-Lilia Torres

-Advisor – Dr. Henrik Kibak (10 mins)

* **Utilization of *in vivo* Plasmid Assembly in the Transformation of *Saccharomyces cerevisiae*​**

-Carl Thacker

-Advisor: Dr. Aparna Sreenivasan (research) & Dr. Charmaine Robinson (capstone) (10 mins)

**11:40 – 12:20 ~ Lunch**

**POSTER PRESENTATIONS**

**12:20 - 1:30 ~ Posters**

**ESTP**

* **The Dam is Down: First-Year Assessment of the Restored Carmel River**

-California Biordi, Anna Conlen, Katrina DeWolf, Hannah Hubbard, Laura MacSween, Jocelyn Trejo-Arce

-Advisor: Dr. Doug Smith

**BIO**

* **After-School Health Education for Youth Informed by an 18-month Community Health Needs Assessment of East Salinas**

-Brayant Galvez

-Advisor: Dr. Henrik Kibak

* **Deletion and Overexpression of Gin4 Causes Phenotypic Changes in *Saccharomyces cerevisiae***

-Joanna Cadenas and Roberto Solis

Advisor: Dr. Aparna Sreenivasan

* **Identifying Novel Aerobic Denitrifiers from the Molera Constructed Treatment Wetland**

- Teresa Munoz and Justin Vivar

-Advisors: Dr. Arlene Haffa (research) & Dr. Charmaine Robinson (capstone)

* **Utilization of *in vivo* Plasmid Assembly in the Transformation of *Saccharomyces cerevisiae*​**

-Carl Thacker

-Advisors: Dr. Aparna Sreenivasan (research) & Dr. Charmaine Robinson (capstone)

* **A quantitative study on Juniper and Pinyon biomass within the Sevilleta National Wildlife Refuge, New Mexico**

-Briana Becerra

-Advisors: Douglas Moore (research) & Dr. Charmaine Robinson (capstone)

* **Detection of *Erysiphe necator* fungicide resistant alleles in environmental samples using a TaqMan assay**

- Jesse Yamagata

-Advisors: Dr. Tim Miles (research) & Dr. Charmaine Robinson (capstone)

* **Comprehensive study of invasive pathogen *Phytophthora tentaculata* with development and validation of new molecular diagnostic tool**

-Noah Luecke

-Advisors: Dr. Tim Miles (research), S. Koenig (research) & Dr. Charmaine Robinson (capstone)

* **Developing a Recombinase Polymerase Amplification Assay to Detect Economically Important Fungicide Resistant Alleles in Erysiphe necator**

-Isabella Sherman

-Advisors: Dr. Tim Miles (research) & Dr. Charmaine Robinson (capstone)

* **Effects of Hypoxia Exposure on Problem-solving Ability of Juvenile Copper Rockfish**

-Brian Phan

-Advisors: Scott Hamilton (research) & Dr. Charmaine Robinson (capstone)

* **Characterization of Novel Enteric Bacteria Isolated from the Monterey Regional Water Pollution Control Agency**

- Mara Eriel Estolano, Jacquelyn Bouza, Justine Iadiano, Genessa Iadiano, Gina Delmuro, and Christopher D’Arrigo

-Advisors: Dr. Arlene Haffa & Jenn Kato

* **Antibiotic Resistance in Bacteria Isolated from the Wastewater Treatment Plant**

- Ana Alvarez, Winnie Chen, Amanda Coelho, Kyle Monroe, Preetika Naidu, Matthew Spear, Rebeca Zelaya, and Miranda Zimmerman

-Advisors: Dr. Arlene Haffa & Jenn Kato

**ORAL PRESENTATIONS**

**1:30 - 3:10 ~ ENSTU**

**(10 mins each)**

* **Fort Ord Oak Tree Restoration**

-Aaron Gilmartin

-Community Partner: Bureau of Land Management

* **The Coast Live Oak Project**

-Kyle Iturraran and Jesse Reyes

-Community Partner: Bureau of Land Management

* **Effect of Temperature on Fresh Produce Quality**

-Emily Alvarez

-Community Partner: Church Brothers Farms

* **Ramona Water Use Reduction Project**

-Eric Walmsley

-Community Partner: Mangold Property Management

* **Milkweed Garden for Santa Cruz Gardens**

-Annalise Bryant

-Community Partner: Santa Cruz Gardens Elementary School

* **Flows to the Bay**

-Kathryn Floor

-Community Partner: Return of the Natives

* **Aquaponics: A Sustainable Alternative for Growing Produce**

-Mickella Calvin and Brett Granados

-Community Partner: Both Co.

* **MPUSD Native Plant Education Project**

-Monique Hunt

-Community Partner: Return of the Natives

* **Locke-Paddon Pond Aeration Project**

-Blanca Rios and Alexandra Ball

-Community Partners: City of Marina/Monterey Peninsula Regional Park District

* **An Examination of Marine Debris and Street Litter in the Vicinity of the Monterey Bay Aquarium**

-Amanda Atkins, Lisette Juarez, Caitlin Powers, Jenny Wuence

-Community Partner: Monterey Bay Aquarium

**15-MINUTE BREAK**

**3:25 - 4:25 ~ ENSTU Cont.**

**(10 mins each)**

* **Project Learn and Grow**

-Jalil Brizan

-Community Partner: Los Arboles Middle School

* **Inspiring the Next Generation of Beekeepers**

-Lily Garza, Ashley Inghram, and Rebecca Ortega

-Community Partner: MEarth

* **Western Snowy Plover Conservation Project**

-Thomas Barkley and Emma Richardson

-Community Partner: Citizens for Sustainable Marina

* **Feeding Wildlife Policy Update**

-Peter Brandt

-Community Partner: California State Parks

* **Just and Sustainable Food Project**

-Stephanie Yee and Teepian Yu

-Community Partner: Real Food Challenge

* **Congestion in Marina, CA**

-Austin Fontanilla

-Community Partner: City of Marina

**Students Graduating with Distinction in the Major**

Allison Nunes

Amanda Coelho

Amber Carvalho

Anna Conlen

Austin Fontanilla

Christine Read

Christopher D'Arrigo

Cristina Robles-Beilby

Emily King

Emma Richardson

Felipe Ocampo

Jason Rodriguez

Laura Marson

Leslie Castro-Alcina

Maria Velasco

Matthew Spear

Mia Sosa

Omar Alvarez Herrera

Sara Bear Magallanes

Stephanie Marcos

Tyler Gerome