**School of Natural Sciences**

**SPRING 2016 CAPSTONE FESTIVAL**

**Thursday, December 15, 2016**

**9:00am - 3:00pm**

**Tanimura & Antle Family Memorial Library, Room 1188**

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

**Dr. Suzy Worcester**, Chair, School of Natural Sciences

**ORAL PRESENTATIONS**

**9:05 - 11:30 – ENVIRONMENTAL STUDIES (10 mins each)**

**Promoting Sustainable Transportation: Campus Car Policies and Public Outreach**

-Michelle Dela Cruz, Stephanie Samos, Kelcey Tern, Nathaniel Todd

-Community Partner:  City of Salinas

**Sustainable and Safe Commutes**

-Darlene Guerra, Victoria McClellan, Ian DeVille, Mariana Del Valle Prieto Cervantes, Giovanni Ibarra, Rebecca Ortega

-Community Partner:  City of Salinas

**Developing a Bike-Share program for Salinas and CSUMB**

-Ryan Blackman, Brittany Whalen, Monica Mata, Madison Hare

-Community Partner:  City of Salinas

**Habitat Restoration Assessment in Fort Ord National Monument**

-Sara Galindo, Christopher Laurel, Isaac Mack

-Community Partner:  City of Salinas

-Community Partner: Bureau of Land Management (BLM)

**Youth in Wilderness Program Evaluation**

-Jennifer Leonard

-Community Partner:  Ventana Wilderness Alliance

**Continuation of Roundabout Awareness in Marina**

-Megan Lyon Fuentes

-Community Partner:  City of Marina

**Locke-Paddon Pond Aeration Project**

-Alexandra Ball

-Community Partner:  City of Marina and MPRPD

**10:15-10:30 15-minute break**

**Youth Garden Compost Education**

-Mary Jackson

-Community Partner:  Veggielution

**Marine Debris Assessment using SCUBA and Education Outreach using COPs**

-Emmanuel Amador, Brooke Eyman

-Community Partner:  Monterey Bay Aquarium

**Trash Splash! An Educational Waste Sorting Computer Game**

-Rachel Sutton

-Community Partner:  CSUMB and Greenwaste

**A Comparison of Sampling Methods for Quantifying Litter Accumulation on Marina State Beach**

-Nicholas Miscione

-Community Partner:  Kathy Biala

**Community Choice Aggregation in Monterey County**

-Andrew Mims

-Community Partner:  Monterey Bay Community Power

**RON EcoTeacher Project**

-Jack Douglas Paterson

-Community Partner:  RON - Return of the Natives

**11:30-11:50 BIOLOGY (10 mins each)**

**Functional characterization of the tomato sugar transporter SWEET10**

-Philip Engelgau

-Advisors:  Charmaine Robinson and Tim Miles

**Spatial and temporal variability of a biological guild on the Monterey Bay sandy continental shelf**

-Nicole Barbour

-Advisors:  Mike Navarro, Corey Garza, Charmaine Robinson

**11:50 - 12:05 ENVIRONMENTAL SCIENCE, TECHNOLOGY & POLICY (15 mins)**

**Temporal and spatial patterns of predation by domestic cats in Monterey County, CA**

-Sawyer Brown-Carman, Russell Foster, Mary Hernandez, Matthew Menor, Summer Wilson

-Advisor:  Jenny Duggan

**30 min break 12:05-12:35**

**12:35-1:40 MARINE SCIENCE**

**A spatial and temporal analysis of dynamic geomorphology in the Monterey submarine canyon head (15 mins)**

-Joseph Cassibba, Allyson Charlesworth, Cole Drake, Olivia Gibbons, Nick Hernandez, Mason Leandro, Laura Velando

-Advisor:  Rikk Kvitek

**Assessing the Impacts of Human Disturbance at Point Lobos State Natural Reserve (15 mins)**

-Marysol Alvarez, Miguel Arreola, Alexandria Bondi\*, Christian Brioso, Rebecca Brown\*, Marina Del Valle, Dustin Everett, Carla Gustafson\*, Jessica Kudlinski, Alexander Liebert, Martina Orellana, Carlos Rivera, Rebecca Torres\*, Catrin Wendt, Jessica Zamora, Lindsay Zangri \*presenters

-Advisor:  Dr. Kerry Nickols

**The Physiological effects of Low Oxygen on Sanddabs (10 mins)**

-Patrick Carilli

-Advisors:  Dr. Cheryl Logan and Dr. Jody Beers

**Variation in Zooplankton Density, Diversity, and Behavior in the Phoenix Islands: A Case Study from a Recent El Nino (10 mins)**

-Brooke Morgan

-Advisors:  James Lindholm and Kerry Nickols

**Habitat Associations of Dermersal Fishes on the Del Monte Shale Beds (15 mins)**

-Darrin Ambat, Adrianna Craft, Jordan Healy, Joel LaShomb, Morgan Lloyd, Hannah Evangeline Mayers, Sarah Mosakowski, and Kylee Walterman

-Advisor:  James Lindholm

**POSTER PRESENTATIONS**

**1:40-3:00**

**MARINE SCIENCE**

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-Advisor:  Rikk Kvitek

**BIOLOGY**

**Comparative analysis of bacterial diversity found in the primary influx of water and the secondary clarifier of the Monterey Regional Water Pollution Control Agency**

-George Garcia, Mike Kristy, Zach Beinhorn, Elisabeth Cobb

-Advisor:  Jenn Kato

**Antibiotic resistance in the primary and secondary wastewater clarification at the Monterey Regional Water Pollution Control Agency**

-Orquidea Quintanar Gomez, Chelsea Newbold, Alyaa Taleb, Victoria Linan

-Advisor:  Jenn Kato

**Reduction in antibiotic resistant bacteria found in the transition from primary to secondary clarifier at the Monterey Regional Water Pollution Control Agency**

-Franchesca Ramirez, Vanessa Stage, William Faull, Katie Bennett, Jennifer Nguyen

-Advisor:  Jenn Kato

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-Philip Engelgau

-Advisors:  Charmaine Robinson and Tim Miles

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-Advisors:  Mike Navarro, Corey Garza, Charmaine Robinson

**The Effect of Road Disturbance On Invertebrates living in a Headwater Stream Near San Gerardo Biological Field Station, Costa Rica**

-Alexandria Charles

-Advisors:  Charmaine Robinson and Alison Haupt

**ENVIRONMENTAL STUDIES**

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