**SPRING 2015 SEP CAPSTONE FESTIVAL**

**Science & Environmental Policy**

**Thursday, May 14, 2015**

**9:00am - 5:00pm**

**Library, Room 1180**

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

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

**ORAL PRESENTATIONS**

**9:05 - 9:35 ~ Biology**

* **Role of Phosphorylation Sites of eIF3j Towards Its Stability and Effect on Cell Proliferation in *Neurospora crassa* and Human Cells**

Kelsie Rodriguez ~ Advisor: Jamie H.D. Cate (12 mins)

* **Geographic Distribution of Transient Thyroid Abnormalities Across NYS**

Jenny Brown ~ Advisor: Denise Kay & Bruce Herron (12 mins)

**9:50 - 11:20 ~ Environmental Studies**

* **Parent Nutrition Packet for Kids Eat Right Program**

Taylor Wedderien ~ Community Partner: Community Hospital of the Monterey Peninsula (5 mins)

* **Latinas Cientificas**

Arienne Arreola and Leann Leon ~ Community Partner: El Sausal Middle School (5 mins)

* **A Water Conservation Program: The Pilot Program**

Sarah Babcock ~ Community Partner: CSUMB (5 mins)

* **Reducing Marine Plastic Pollution Through Diverse Public Education in Middle Schools**

Marisa Barrera ~ Community Partner: Surfrider (5 mins)

* **Sustainable Cities Year Program**

Tyler Belko ~ Community Partner: CSUMB (5 mins)

* **How to Protect and Save an Endangered Species:  Using La Vaquita (*Phocoena sinus*) as a Model**

Krystal Bocanegra ~ Community Partner: Save the Whales (5 mins)

* **Designing a Drought-Tolerant Memorial Garden**

Danika Cauthin-Wright ~ Community Partner: Pet Friends Adoption Center (5 mins)

* **Seafood Foraging Class**

Stephen Eggers ~ Community Partner: Adventure Sports Unlimited (5 mins)

* **A Preliminary Evaluation of Litter Prevalence in the Vicinity of the Monterey Bay Aquarium**

Johnny Foremaster III, Melissa Gonzalez, Flynn Milam ~ Community Partner: Monterey Bay Aquarium (5 mins)

* **Informational Packets to Educate the Public on the Environmental Impacts of Coffee**

Kelsey Kimball ~ Community Partner: Carmel Valley Coffee Roasting Company (5 mins)

* **Educational Signs for Seaside Parks**

Megan Mason ~ Community Partner: Return of the Natives Restoration Education Project (5 mins)

* **Feral Cat Fundraiser**

Tabatha Meier ~ Community Partner: Animal Friends Rescue Project (5 mins)

* **Wahine to Kahuna**

Elizabeth Schurig ~ Community Partner: Wahine Project (5 mins)

* **Organics to Energy Public School Program**

Eric Sousa ~ Community Partner: Monterey Peninsula Regional Waste Management District  (5 mins)

* **Farm to Table Fundraiser**

Patrick Sullivan ~ Community Partner: Everyone’s Harvest (5 mins)

* **A Compilation of Live-Stream Condor Monitoring Data for Comparison Purposes**

Sydney Thomas ~ Community Partner: Ventana Wilderness Society (5 mins)

* **Chronological Lifespan of Indigenous Plants**

Christopher Vinson ~ Community Partner: Return of the Natives Restoration Education Project (5 mins)

**11:20-1:00 Posters**

**POSTER SESSION**

**Biology**

* **Creating a Dual Reporter System to Investigate Tissue Specific Alternative Splicing in *C.elegans***

Elisabeth Carrillo ~ Advisor: Alan Zahler

* **Improving Molecular Methods for the Identification of Toxic Cyanobacteria**

Martha Cervantes ~ Advisor: Erin Stanfield Improving Molecular Methods for the Identification of Toxic Cyanobacteria

* **Geographic Distribution of Transient Thyroid Abnormalities Across New York State**

Jenny Brown ~ Advisors: Bruce Herron and Denise Kay

* **Role of Phosphorylation Sites of eIF3j Towards Its Stability and Effect on Cell Proliferation in *Neurospora crassa* and Human Cells**

Kelsie Rodriguez ~ Advisor: Jamie Cate

* **Annotation of Contig 50 on the 3L Arm of Chromosome 3 in *Drosophila biarmipes***

Andy Alvarez ~ Advisors: Aparna Sreenivasan and Charmaine Robinson

* **Determination of Water Quality at the Molera Constructed Treatment Wetland**Luiza Calderia, Anthony Contreras, Wendy Garibay, Kaylee Moody,Richard Perez, Amanda Preece, Gregory Roldan, Jeannie Ruminski, Nina Weaverling (BIO 320 Group Capstone)  ~ Advisor: Arlene Haffa
* **Microbial Denitrification in the Molera Constructed Treatment Wetland** Velia Nunez ~ Advisor: Arlene Haffa
* **Identification of a Novel Strain of *Exiguobacterium acetylicum* Isolated from the Molera Constructed Treatment Wetland** Samantha Martin ~ Advisor: Arlene Haffa
* **Liquid smoke as a substitute for natural and anthropogenic fire regimes** Matthew Olson ~ Advisor: Christina McKnew

**Marine Science**

* **Eyes in the Deep: A novel time-lapse camera & sensor system for benthic research.**

Joshua D. Ambrose, Lauren R. Boye, Isaiah H. Foulks, Daniel S. Frick, Karson E. Hayden,  Sam Whitney. ~Advisor:  Steve Moore

* **Coming or going? 13 year time series analysis of the Monterey submarine canyon head: Part 1**

Courtney D. Wheeler, Aaron P. Kochman, Brittney L. Lebbano, Bethany L. Fitch, Hudson C. Facchini, Nicholas M. Brown, Samantha D. Ramirez ~ Advisor: Rikk Kvitek

* **Coming or going? 13 year time series analysis of the Monterey submarine canyon head: Part 2**

Courtney D. Wheeler, Aaron P. Kochman, Brittney L. Lebbano, Bethany L. Fitch, Hudson C. Facchini, Nicholas M. Brown, Samantha D. Ramirez ~ Advisor: Rikk Kvitek

**ESTP**

* **Assessing the accuracy and precision of Structure from Motion Photogrammetry in environmental geomorphology.**

Jennell Manion, Kaitlyn. Chow, Jacob Garcia, Lauren Luna, Alexandria Thornton, Isabel Zargoza, Joel Hunter ~ Advisor: Doug Smith

* **Comparing grade control design criteria for a gully restoration project at Hollister Hills Off-Highway Vehicle Park**

Constance Reeves, Tania Ravel Roozi Talab, Madison Hallroan, Alexander Mairs, Sean Collingwood, Michael Bell, Stephanie Banuelos, Megan Best, Ashley Brown, Evan Brunsvold, Tiffany Chao, Michael Fung, Gregg Knapp, Austin McBrady, Rebecca Moore  ~  Advisor: Doug Smith

**ORAL PRESENTATIONS--II**

**1:00 - 1:50~ESTP**

* **Comparing grade control design criteria for a gully restoration at Hollister Hills Off-Highway Vehicle Park and assessing photogrammetric monitoring.**

Austin McBrady, Tiffany Chao, Constance Reeves, Kaitlyn. Chow, Jacob Garcia ~ Advisor: Doug Smith (20 mins)

* **Guiding Management of Fort Ord National Monument Grasslands by Analyzing Temporal and Spatial Patterns**

Student(s) ~ Genevieve Bertain, Nichole Bridgewater, Michael Brixey, Daniel Burklund, Michael Burleson, Zachary King, Linda Oliveros, Bethany Schulze, Kristine Snyder, Sarah Spellenberg

Advisor: Suzy Worcester (20 mins)

**15 min break**

**2:05 - 4:35 ~ Marine Science**

* **Eyes in the Deep: A novel time-lapse camera & sensor system for benthic research.**

Joshua D. Ambrose, Lauren R. Boye, Isaiah H. Foulks, Daniel S. Frick, Karson E. Hayden,  Sam Whitney. ~ Advisor: Steve Moore

* **Coming or going? 13 year time series analysis of the Monterey submarine canyon head.**

Courtney D. Wheeler, Aaron P. Kochman, Brittney L. Lebbano, Bethany L. Fitch, Hudson C. Facchini, Nicholas M. Brown, Samantha D. Ramirez ~ Advisor: Rikk Kvitek

* **Vertical stratification of demersal fish communities along the walls of the La Jolla and Scripps submarine canyons**

Joshua Smith - Honors Capstone ~ Advisor: James Lindholm

* **Habitat associations of prawns (*Pandalus platyceros*, *Sicyonia ingentis*) on the continental shelf and slope off Southern California**

Rhiannon McCullough - Honors Capstone ~ Advisor: James Lindholm

* **Using deep sea video imagery to predict demersal fish associations with habitat complexity in the Gulf of the Farallones National Marine Sanctuary**

Bedell, Loryn, Kelly Brundige, Danielle Fabian, Erica Godat, Cristian Hernandez, Marissa Jacky, Terence Jarell, Caitlin Liedtke , Lauren Madden, Candace Reid, and Laila San Ahmadi - MSCI 470 Group Capstone ~ Advisor: James Lindholm

* **Landscape ecology of nearshore biological communities along the California coast from diver-operated video and visual census surveys.**

Jannette Bodwell, Ali Fremont, Kyle Hascall, Mark Joachim, Veronica Larwood, David Norman, Josh Smith, Serena Thurston, and Akemi Yamaguchi ~ Advisor: James Lindholm

* **Species-specific gene expression responses of juvenile rockfish congeners (*Sebastes spp.*) to ocean acidification**

April Makukhov ~ Advisor: Cheryl Logan

* **Ocean acidification effects on blue rockfish (*Sebastes mystinus)* gill tissue gene expression (tentative title)**

Kirsten Boyer, Aimee Braddock, Chelsea Colditz, Judith Llamas, Kyle Mundy, Luis Ramirez, Cristina Villalobos  ~ Advisor: Cheryl Logan