

Bamfield Scholars' Society 15th Annual Symposium Program
17 December 2010

ALL WELCOME!

9:00-9:10 WELCOME

SESSION 1: Photobiology

- 9:10-9:25 The effect of the absence of Ultraviolet-B radiation on the branching rate and UV-pigment concentration of *Ulva intestinalis*
Amalia Mailli
- 9:25-9:40 Population growth of the zooxanthellae *Symbiodinium muscatinei* in response to variation in light spectra
Colleen Michael
- 9:40-9:55 Carotenoid up-regulation rate, in response to light stress, varies with algae elevation, in *Fucus distichus*
Matthew Harding
- 9:55-10:15 The effect of the fungus *Mastodia tessellata* on the photosynthetic rate and pigment content of the green alga *Prasiola borealis*
Bess Kennedy and Adrian Kense*

10:15-10:30 BREAK

SESSION 2: Ecology and Behaviour

- 10:30-10:45 The constraints of arm number, and vascular system asymmetry on *Asterina miniata* locomotion
Emaline Montgomery
- 10:45-11:00 Using an immune response as a proxy for genetic identity to understand population structure in a marine sponge, *Suberites* sp.
Evelyn Jensen
- 11:00-11:15 Community assemblage of the epifauna and epiflora on eelgrass (*Zostera marina*) blades over increasing spatial scales
Matthew Bayly
- 11:15-11:30 Induced defence by waterborne cues in *Fucus distichus*
Daan Mes
- 11:30-11:45 The effect of variable light conditions on the circadian rhythm of the talitrid amphipod *Megalorchestia californiana*
Chris Banmann
- 11:45-12:00 Ability of the non-native softshell clam *Mya arenaria* to detect the presence of native predators, the Dungeness crab *Metacarcinus magister* and the red rock crab *Cancer productus*
Susan Anthony
- 12:00-12:15 Banding in the prismatic calcite layer as a proxy for age in the California mussel, *Mytilus californianus* and relation to size and intertidal height
Jared Sykes
- 12:15-12:35 From epiphytism to parasitism: Is the relationship between the obligate epiphyte *Microcladia coulteri* and its host *Chondrocanthus exasperatus* based on attachment alone?
Jesse Hitchcock and Brenda Hookham*

12:35-1:30 LUNCH

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SESSION 3: Applied Research: Human Impacts and Anthropogenic Factors

- 1:30-1:45 The effects of antifouling paint on time to feeding in the blue mussel, *Mytilus trossulus*
 Haley Smith
- 1:45-2:00 Making a case for integrated multi-trophic aquaculture: growth rate of
Macrocystis pyrifera in the presence of *Mytilus trossulus*, and public receptivity
to their products
 Erin Beulah
- 2:00-2:15 Ingestion of microplastics isolated from common skin cleansers by the Bay
mussel *Mytilus trossulus*
 Stephanie Keightley
- 2:15-2:30 Investigation of bait preferences for two species of Decapod crab: Dungeness
crabs, *Cancer magister* and Red Rock crabs, *Cancer productus*
 Brodie Driemel
- 2:30-2:45 Antibacterial Properties of *Fucus sp.*: Comparison of reproductive and non
reproductive blade tissue
 Jessica Wallace
- 2:45-3:00 Substrate choice and settlement preference of larvae in *Botrylloides violaceous*
 Natalia Filip

3:00-3:20 BREAK

SESSION 4: Global Climate Change and Abiotic Factors

- 3:20-3:35 The effects of temperature and salinity on nudibranch egg masses: a glimpse at
the implications of climate change for gastropod development
 Lia Chalifour
- 3:35-3:50 The effect of salinity changes on the activity of three Pacific sea star species:
Pisaster ochraceus, *Dermasterias imbricata*, and *Asterina miniata*
 Charla Basran
- 3:50-4:05 Investigating salinity as a proximate factor in structuring coastal marine
phytoplankton
 Jonathan Hill
- 4:05-4:20 Variation in spore tolerance to emersion and temperature stress between
Calliarthron tuberculosum and *Corallina vancouveriensis*
 Amanda Kieswetter and Amy McConnell*

4:20-4:30 CLOSING REMARKS

- Authors of multi-author papers listed in alphabetical order by surname