

COMMITTEE ON EVOLUTIONARY BIOLOGY

ANNUAL GAANN RETREAT

MAY 3rd 2015



CHICAGO
BOTANIC
GARDEN



Committee on Evolutionary Biology

University of Chicago



2015 GAANN Retreat Schedule

Breakfast

9:30 - 10:00

Session 1

Chair: Evan Koch

10:00 Daniela Palmer

A field test of the mimicry hypothesis in the swallowtail butterfly *Papilio polytes*

10:15 Daniel Hooper

Selection and sex chromosomes: inversion fixation in the Estrildid finches

10:30 Lu Yao

A comprehensive study of body size and brain size in Southeast Asian mammals

10:45 Dallas Krentzel

How much wood would a woodchuck chuck if a wood chuck could chuck wood? A comparative approach

11:00 Brett Aiello

Evolutionary patterns of pectoral fin mechanics and proprioception

Break

11:15 - 11:30

Session 2

Chair: Rey Ayon

11:30 Hussein Al-Asadi

Evolutionary heterogeneity causes high false positives in tests of positive selection

11:45 Edna Davion

Nocturnality in birds: implications for opsin genes

12:00 Joyce Pieretti

Functional evolution of a conserved cis-regulatory element in fins & limbs

12:15 Tim Sosa

Opportunity vs. constraint: morphological evolution of freshwater fishes in new habitats

Lunch

12:30 - 2:00

Session 3

Chair: Robert Burroughs

2:00 Stewart Edie

Geographic co-occurrence and character displacement in fossil and modern marine bivalves

2:15 Jonathan Mitchell

Extinction dynamics and lineage survival in Cretaceous and Paleogene bivalves

2:30 Peter Smits

How do species traits affect extinction risk? New approaches to old questions

2:45 Marites Villarosa Garcia

Biogeographic Patterns of Coccolithophore Morphological Disparity

Break

3:00 - 3:30

Session 4

Chair: Julie Szymaszek

3:30 Christopher Shell

Parents with style! Parental care is both personality and experience-dependent in coyotes (*Canis latrans*)

3:45 Courtney Stepien

Seaweed feedbacks to ocean chemistry

4:00 Katherine Silliman

Population Genomics of the Olympia Oyster

4:15 Nicole Bitler

Phenotypic consequences of range expansion in two intertidal snails