SEEPAGE 2003
Sept 19 - 21, Capm Sequoya, VA

Program

Saturday Sept 20

Breakfast: 8:00 - 9:00

Morning Session 1 9:00 - 10:30
Chair: Maria Servedio

9:00 9:15 Greetings from Coordinator, Announcements, etc.
9:30 9:45 D. W. Weisrock and A. Larson Phylogeography of the *Plithodon jordani* species complex in the southern Appalachian Mountains.
9:45 10:00 Robert Lachlan and Maria Servedio Song learning and allopatric speciation
10:00 10:15 Maria Servedio What weak selection approximations can and can't tell us about reinforcement
10:15 10:30 Jennifer Modliszewski Chloroplast DNA Variation and Gene Flow in a Broad Hybrid Zone of *Aesculus* (*Dipsacales*) in the Southeastern United States

Morning Session 2 11:00 - 12:30
Chair:

11:00 11:15 Margaret Ptacek Mating signal divergence in the sailfin mollies (*Poeciliidae: Poecilia: Mollienesia*).
11:15 11:30 Gene McCarthy and Nick Priest A wood warbler hybrid network
11:30 11:45 Beth Dakin and Dean Fletcher The genetic mating system and spawning of the pirate perch, *Aphredoderus sayanus*
11:45 12:00 Maia Bailey Spatial variation and the implications for inbreeding depression in *Silene vulgaris*
12:00 12:15 John Niedzwiecki Genealogical comparisons of mitochondrial and nuclear markers within and between populations of the salamanders, *Ambystoma barbouri* and *Ambystoma texanum*
12:15 12:30 Wade E. Winterhalter and Timothy A. Mousseau The Effects of Asymmetric Phenotypic Distributions on Rugged Fitness Landscapes

Lunch: 12:30-2:00

Afternoon Session 1 2:00 - 3:30
Chair: Lev Yampolsky

2:00 2:15 Nick Priest and Keith White Sexual behavior and parent-offspring fitness tradeoffs
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<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>2:15</td>
<td>Patrick D. Lorch</td>
<td>Does sexual selection increase or decrease population mean fitness?</td>
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<td>2:30</td>
<td>Michael J. Childress and Mark A. Lung</td>
<td>Behavioral sexual dimorphism and the evolution of elk vigilance</td>
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<td>2:45</td>
<td>Lev Yampolsky and Jeffrey Stirman</td>
<td>Deleterious mutations, sperm competition and the evolution of mating system</td>
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<td>3:00</td>
<td>Matthew D. Halfhill, Reginald J. Millwood, and C.N. Stewart Jr.</td>
<td>Transgenic Hybrids: Frequency, Fitness, and Competition</td>
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<td>3:15</td>
<td>Jessica Minton and Lev Yampolsky</td>
<td>Sperm competition between lab and wild Drosophila males - did we find a perfect loser?</td>
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<td>4:00</td>
<td>Lynn Adler</td>
<td>Does nectar production and composition affect leaf herbivory?</td>
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<td>4:15</td>
<td>Katie Provost</td>
<td>Multihost variability of Saprolegnia</td>
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<td>4:30</td>
<td>Kenneth Kozak</td>
<td>Comparative phylogenetic analysis of ecromorphological diversification in dusky salamanders</td>
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<td>4:45</td>
<td>Nadia A. Ayoub, Susan E. Riechert</td>
<td>Phylogeography of the desert spider, Agelenopsis aperta: Testing predictions based on the fossil record and life</td>
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<td>5:00</td>
<td>Joseph Bernardo</td>
<td>A Priori hypothesis testing in Comparative Phylogeography</td>
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Soccer games: 1/2 final 5:30 - 6:00 (assuming 4 teams sign up)
Dinner: 6:00 - 7:00
Poster Session 7:00 - 8:00
Soccer game: final 7:00 - 7:30
Business Meeting 7:30 - 8:00
Random Slides Talks 8:00 - …

**Sunday Sept 21**

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<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
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<tr>
<td>9:00</td>
<td>Mentewab Ayalew, Nrupai Patel, Vinitha Cardoza and Neal Stewart Jr.</td>
<td>Genomic Analysis of the Response of Arabidopsis and Chlamydomonas to TNT as Revealed by Microarrays.</td>
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<tr>
<td>9:15</td>
<td>Naoki Takebayashi, Ed Newbigin, and Marcy K. Uyenoyama</td>
<td>Maximum-likelihood estimation of historical rates of recombination</td>
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<td>9:30</td>
<td>Voss Randal</td>
<td>Enabling Genomics in Nonmodel Organisms: Tails</td>
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9:45  10:00 Elaine Walker and Frosty Levy

Antibiotic Resistance: Does it really disappear?

10:00  10:15 David Reed

Extinction in Fragmented Habitats

10:15  10:30 Kevin Smith

An experimental assessment of the impacts of two nonindigenous anurans on native species: competition among tadpoles

Morning Session 2 11:00 - 12:30

Chair:

11:00  11:15 Rachel Goodman

Spatial distribution of an endangered iguana, Cyclura nubila lewisi, in a disturbed habitat


Tadpole deposition strategies of a Peruvian poison frog (Allobates femoralis)

11:30  11:45 Christopher Binckley and William Resetarits Jr.

Habitat selection of aquatic taxa across gradients of productivity

11:45  12:00 James T. Costa and Kenneth G. Ross

Fitness effects of group merging in eastern tent caterpillars

12:00  12:15 James A. Fordyce and Chris C. Nice

The significance of wing pattern variation in the Lycaenidae: mate signalling is in the details

12:15  12:30 William Resetarits

The logical application of fixed versus random effects models in ecology

Lunch: 12:30-2:00

Posters: (Sat 7:00 - 8:00 pm)

Shala J. Hankison

The role of geography and sexual selection in explaining morphological divergence among populations of Mexican sailfin mollies

Michele Kittell

Morphological and genetic characterization of interspecific hybrids between shortfin and sailfin mollies

Catherine Aubee and Howard Whiteman

Breeding phenology in the polymorphic mole salamander, Ambystoma talpoideum, in western Kentucky

Gregory Ruthig

Infectious Disease and Egg Laying Behavior in Frogs

Carol Goodwillie

The distribution and genetic basis of variation in self-incompatibility in Leptosiphon jepsonii (Polemoniaceae)
Amy Samuels, David Weisrock, Snkrishna Putta, Jeremiah Smith, and S. Randal Voss

Comparitive Analysis of Three Complete Ambystomatid Salamander Mitochondrial Genomes

Jeramiah Smith and S. Randal Voss

Genetics of Metamorphosis and Sex Determination in Ambystoma

Johanna Kraus

Resource subsidies and predator distribution at an aquatic-terrestrial boundary.

Chhandak Basu, Chris Main, Reginald J. Millwood, Tom Mueller and Neal C. Stewart Jr.

The molecular basis for the evolution of glyphosate tolerance in Horseweed (Conyza canadensis)

Raghavendra Rao Murali and Suresh N Sondur

Estimation Of Genetic Diversity In Cashew (Anacardium occidentale) Using Molecular Markers

Subi Jacob snd G. L. Lentz

Survival And Development Of The Beet Armyworm, Spodoptera exigua, On Conventional, Bollgard I And Bollgard II Cottons

E. Cayenne Engel and Jake F. Weltzin

What factors drive the response of old-field plant communities to the interactive effects of CO2, temperature, and soil water availability?

LC Hudson and CN Stewart Jr.

The Use of Green Fluorescent Protein for Detection of Pollen Distribution and Gene Flow

Lucia F. Franchini, Eric W. Ganko and John F. McDonald

A high percentage of retrotransposon-gene associations are unique to the Drosophila melanogaster genome

Novak, B.E., Obafemi,A. and Remington, D.L.

The DELLA Gene Family in Dubautia arborea and D. ciliolata: Gene Duplication or PCR Generated Recombination?

Fulcher, K.F., Obinma, D.O., Lacey, E.P. and Remington, D.L.

Microsatellite Isolation and Genetic Mapping in Plantago Microsatellite Isolation and Genetic Mapping in Plantago

Mentewab Ayalew, Nrupai Patel, Vinitha Cardoza and Neal Stewart Jr.

Genomic analysis of the response of Arabidopsis to Trinitrotoluene as Revealed by Microarrays