

## Spring 2006 – EEB 8990 Current Topics in Behavioral Biology

### “Sexual Selection: From Sensory Cells to Sympatric Speciation”

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Meeting Times: Tuesdays, 16:00, 330E Conference Room

**Roles of the Discussion Leader:** (1) Select a paper from the primary literature and email a PDF to me so that I can distribute to the rest of the class. (2) Lead a 1-hour long *informal* discussion on the paper. This discussion leader should provide a *brief* summary of the paper (background, questions, hypotheses, methods, main results, conclusions) followed by a discussion of the main points of interest about the paper. Questions submitted by the rest of the class can provide a partial basis for structuring the discussion. Successfully leading a fruitful discussion may require that you also consult other published studies from the primary literature (e.g., previous studies from the author’s lab or critical theoretical studies). (3) Compile a list of 3-5 open, unresolved questions from the class discussion and email these to the paper’s corresponding author. If the author(s) send(s) a reply, then a brief report would be given during a subsequent meeting.

**Roles of the Discussion Participants:** (1) Read the selected paper! (2) Email 1-3 discussion questions about the paper to me ([mbee@umn.edu](mailto:mbee@umn.edu)) **by 10:00am MONDAY morning** on the day preceding the discussion. I will compile the questions from everyone and submit them to the Discussion leader and to the rest of the class as an anonymous list of questions.

Date	Selected Reading	Discussion Leader
January 17	Informational Meeting	Bee
January 24	“The Theory of Sexual Selection” from Andersson (1994)	Simone
January 31	Møller AP. 2005. Rapid change in nest size of a bird related to change in a secondary sexual character <i>Behav Ecol</i> (Advanced online publication)	McCannell
February 7	Siefferman and Hill 2005. “Evidence for sexual selection on structural plumage coloration in female eastern bluebirds ( <i>Sialia sialis</i> .” <i>Evolution</i> , 59:1819–1828	Manor
February 14	Yeh 2004. “Rapid evolution of a sexually selected trait following population establishment in a novel habitat.” <i>Evolution</i> 58:166-174.	Haines
February 21	Delph et al. 2004. “Genetic constraints on floral evolution in a sexually dimorphic plant revealed by artificial selection”. <i>Evolution</i> , 58: 1936–1946.	Stark
February 28	Phelps et al. 2006. “A Cognitive Framework for Mate Choice and Species Recognition.” <i>Am Nat</i> , 167: 28-42.	Van Vleck
March 7	McDonald et al. 2001. Sexual selection on plumage and behavior in an avian hybrid zone: Experimental test of male-male interactions. <i>Evolution</i> 55:1443-1451.	Vargus
March 14	SPING BREAK	
March 21	Skogsmyr and Lankinen 2002. “Sexual selection: an evolutionary force in plants?” <i>Biol. Rev.</i> 77: 537-562	Gugger
March 28	Haesler and Seehausen. 2005. “Inheritance of female mating preference in a sympatric sibling species pair of Lake Victoria cichlids: implications for speciation” <i>Proc Roy Soc Lond B</i> 272:237-235.	Halas
April 4	Sakaluk et al. 2006 “Cryptic Sexual Conflict in Gift-Giving Insects: Chasing the Chase-Away”. <i>Am Nat</i> , 167: 94-104	Simone
April 11	Andrade & Kasumovic 2005. Terminal investment strategies and male mate choice: Extreme tests of Bateman. <i>Integr. Comp. Biol.</i> , 45:838–847	Ratcliff
April 18	Verrell & Mabry (2003) Sexual behaviour of the Black Mountain dusky salamander ( <i>Desmognathus welteri</i> ), and the evolutionary history of courtship in the Desmognathinae. <i>J Zool Lon</i> 260:367-376	Halas
April 25	Preston et al. 2005 “Male mate choice influences female promiscuity in Soay sheep”. <i>Proc Roy Soc Lond B.</i> 272: 365-373	Manor
May 2	Evolutionary Psychology - TBA	Bee