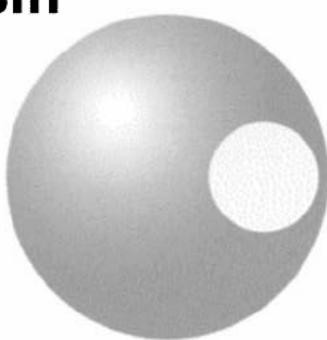


# EVOLUTION '99

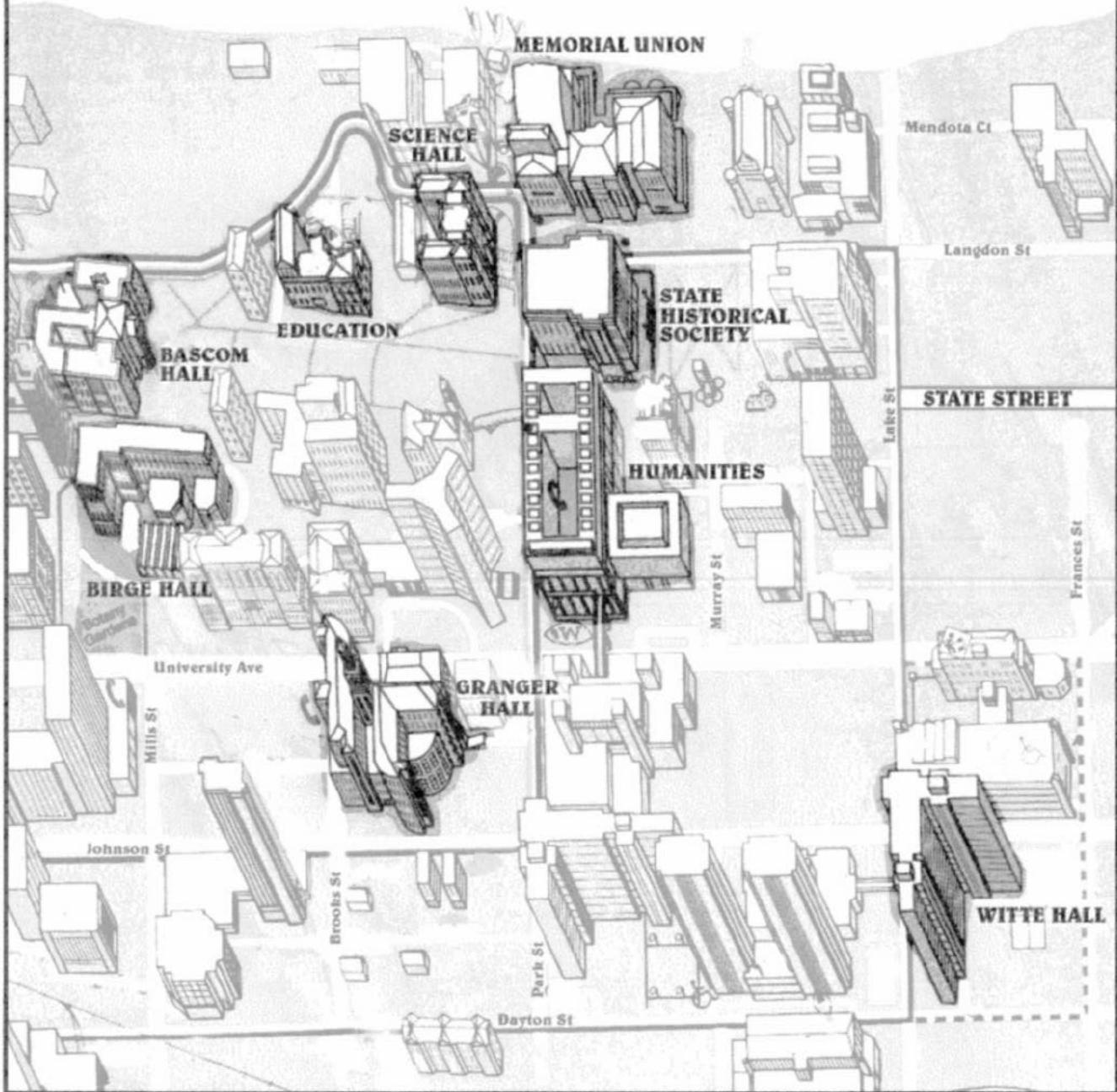


**University of Wisconsin  
Madison, Wisconsin  
June 22-26, 1999**

- The Society for the Study of Evolution
- The American Society of Naturalists
- The Society of Systematic Biologists



## KEY CAMPUS BUILDINGS



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## ACKNOWLEDGEMENTS

A meeting of this size and complexity required the skills and cooperation of many individuals most of whom toiled behind the scenes for months to create our meeting. While this list is doubtless incomplete, it serves to thank some of the key people who helped make things happen how and (more or less) when they needed to. If you see these individuals, consider thanking them in person. If you're upset with some aspect of the meeting, blame me and let me know as it's doubtless my fault. I will then be in a position to pass along my hard-earned wisdom to future meeting organizers.

Don Waller, Local Organizer

**David Mindell** and **Alec Lindsay** (U. Michigan) worked long and efficiently to bring the order of our final Scientific Program out of the chaos of hundreds of individual paper and poster title submissions over a period of months. They also managed to upload the orderly set of Contributed Paper sessions they organized onto our meeting web site, providing speakers with early glimpses of the entire program.

**Owen Boyle** (UW-Botany) provided much of the design and execution of our main meeting web site and associated web pages. He also laid out the final Program, organized the cadre of students manning the AV equipment for all our sessions, and acted as liaison for many aspects of the meeting.

**Irene Eckstrand** of the NIH and **Lilian Tong** and **Jan Cheetam** of UW's Center for Biology Education worked together to organize and publicize our first annual **Teaching Evolution** workshop. Early indications are that this will be a successful and regular part of our meetings.

**Alex Kondrashov** (Cornell) and **Joe Felsenstein** (the other UW) generously donated their time and expertise to organize an entertaining and informative tribute to **James Crow**, a guiding light in population genetics and evolutionary theory both locally and internationally.

**Kandis Elliott** (UW-Botany) performed customarily excellent and speedy design and artwork for the meeting brochure, this Program, and the tote bag.

**Terry Devitt** and **David Mindell** co-wrote a press release and Terry helped make contacts with individual reporters.

**Jeffrey Mc Kinnon**, **Sally Otto**, and **Owen Boyle** worked together as an informal Social Committee to plan and schedule the musical and social events for the meeting.

**Ted Garland**, **Tom Givnish**, **Ken Sytsma**, and **Alan Wolf** served as the Local Organizing Committee to consult on various aspects of meeting organization.

**Maureen Sundell**, **Pat Gaitan**, **Carol Strmiska**, **Gloria Eichenseher** and **Patti McDowell** of UW Extension Conference Services worked hard as a team on overall meeting organization, registration, liaison with housing and classrooms, and myriad other tasks, as well as providing much of the information on local attractions for this Program.

## **EXHIBITORS – BOOK PUBLISHERS**

The exhibit of book publishers' materials will be in the Memorial Union's Reception Room on the 4<sup>th</sup> floor. This area is located adjacent to conference poster sessions and refreshment breaks. You are encouraged to take some time to visit the displays from many of the most active and distinguished publishers in evolutionary and systematic biology. Exhibit hours are Thursday from 10 a.m. to 9 p.m.; Friday from 10 a.m. to 6 p.m.; and Saturday from 10 a.m. to 5 p.m.

**Academic Press**

**American Institute of Biological Sciences**

**Blackwell Science, Inc.**

**Harvard University Press**

**Johns Hopkins University Press**

**McGraw-Hill Publishers**

**Oxford University Press**

**Prentice Hall**

**Princeton University Press**

**Sinauer Associates, Inc.**

**Taylor and Francis**

**University of Chicago Press**

**Yale University Press**

## **SPONSOR**

The organizers gratefully acknowledge the financial support of **Taylor and Francis** as a sponsor of the 1999 Joint Meeting of the Society for the Study of Evolution, The American Society of Naturalists, and The Society of Systematic Biologists.

## WELCOME TO MADISON!

You are invited to experience one of the most beautiful and nationally acclaimed cities in the United States. Situated on an isthmus between Lakes Mendota and Monona, Madison is a truly charming and picturesque city. Five lakes, 200 parks, miles of biking and hiking paths, and one of the loveliest university campuses in the country offer an abundance of outdoor activities. These, combined with a stimulating cultural environment, great shopping and dining, and an “irreverent spirit of fun,” make Madison a great place to be.

### **While you're here...**

**Check out State Street and Downtown...** The Wisconsin State Capitol building is open to the public—worth a look, as are the lovely flowers and grounds surrounding the building. Free guided tours begin at 9, 10, 11, 1, 2, 3pm, Monday – Saturday; 1, 2, & 3pm on Sunday.

The Frank Lloyd Wright-designed Monona Terrace Convention Center is the site of your Friday evening banquet. Originally proposed in 1938 and opened in the summer of 1997, this Convention Center brings to life one of Wright's final creative visions. The Terrace is located two blocks east of the State Capitol on the shore of Lake Monona. Shuttle service will be available; please check the Shuttle Schedule in this program book.

A walk down State Street will acquaint you with all kinds of ethnic cafes, restaurants, coffeehouses and shops, a feast for the eye and the palate. If you're short on time, buses run up and down State Street every 10 minutes, between 9:30 AM and 3:00 PM, for only 25 cents. Look for bus route #1, *Downtown Get Around*.

**The Farmers' Market...** Every Saturday morning, the Capitol Square wakes up early (really early), to host the Dane County Farmers' Market. Described as one of the biggest and best farmers' markets in the midwest, this is not just a place to shop, it's an event. Grab a pastry (lots to choose from) and a cup of gourmet coffee and join the slow walk around the Square. Hours are 6:30 AM to 2:00 PM.

**Discover the University of Wisconsin campus...** Take your time, it's big. The University of Wisconsin is one of the finest universities in the United States and one of the largest with over 40,000 students. Take a walk down the “Lake Path” or through the center of campus and enjoy the view from Observatory Hill. It's worth the hike.

**Open doors with your nametag...** If you present your nametag at the entrance to a UW recreation center (see campus map for locations), you can pay a daily fee and use indoor tracks, pools, equipment rooms, maybe even work in an aerobics class.

Your nametag also allows you to buy a cool brew at the Memorial Union. With its many social areas and location on Lake Mendota, the Union is considered the living room of the campus. It offers beautiful sunsets, sometimes live music, the opportunity to get a brat, beer, or just a bag of popcorn, and then sit back and watch the world go by.

**Explore, enjoy, have a great time!**

## SHUTTLE SCHEDULE

June 22-27, 1999

**Look for the buses with the “Evolution ‘99” sign in the window.**

**Friday, June 25, 1999**

5:30 – 10:30 PM      Continuous shuttle service will depart from the Memorial Union for the 10-minute ride to Monona Terrace for the reception and banquet that begin at 6:00. Return will be to area hotels, the Lowell Center, the Memorial Union, Witte Hall, and the J.F. Friedrick Center.

**Sunday, June 27, 1999**

7:00 – 11:40 a.m.      Shuttle service to the airport will depart from the J.F. Friedrick Center, Witte Hall (use the Johnson Street entrance), and the Lowell Center (cross Langdon Street, at the Frances Street corner) approximately every 20 minutes. The trip takes 20-25 minutes from the Lowell Center. The last pick up will begin at approximately 11:40.

## THINGS TO DO IN MADISON

**June 23 – 28, 1999**

**Wednesday, June 23**

**Wednesday Farmers’ Market.** The Wednesday version of Madison’s famous Farmers’ Market is held just off the Capitol Square. Pick up homegrown fruits and vegetables, bakery goods, cheeses, and more. 9 a.m.–2 p.m., Martin Luther King, Jr. Blvd.

**Open Mic.** University and Union members entertain the masses. 8-11 p.m., Memorial Union Terrace (rain location is the Rathskeller).

**Washburn Observatory Public Viewing.** Telescope viewing of the moon, planets, and stars when the sky is at least 75% clear. 9 p.m., Washburn Observatory, 1401 Observatory Dr. Call 262-9274.

**Thursday, June 24**

**Badger State Summer Games-Finals.** Olympic-style sports festival for WI residents of all ages. Various times and places throughout Madison. Call 251-3333. Free to the public; participants pay a fee.

**African Studies Program Summer Film Festival-Films from North Africa. *Insan (Human Being)* Sudan.** 7 p.m., 4070 Vilas Hall, 821 University Ave. Call 262-4461.

**University Summer Forum-The State and the University: 1848-1998. The New Wisconsin Idea.** 7-9 p.m., 1100 Grainger Hall, 975 University Ave. Call 263-1956.

**Terrace Music-Noah John, old-time country and Accident Clearinghouse, honky tonk.** Live music on Memorial Union's Terrace. (Rain location is the Rathskeller.) 9:30 p.m.-midnight.

**Friday, June 25**

**Badger State Summer Games-Finals.** Olympic-style sports festival for WI residents of all ages. Various times and places throughout Madison. Call 251-3333. Free to the public; participants pay a fee.

**Concerts on the Rooftop-Goongoo Peas.** Enjoy a view of the lake while listening to Caribbean folk music. 5:30-7:30 p.m. Monona Terrace Rooftop (Rain location is Exhibition Hall.)

**Terrace Music-The Mary Janes, country folk rock and Robbie Fulks, pop, twang, and rock.** Live music on Memorial Union's Terrace. (Rain location is the Rathskeller.) 9:30 p.m.-midnight.

**Saturday, June 26**

**Badger State Summer Games-Finals.** Olympic-style sports festival for WI residents of all ages. Various times and places throughout Madison. Call 251-3333. Free to the public; participants pay a fee.

**Dane County Farmers' Market.** One of the finest farmer's markets in the country and a Madison tradition. Over 300 local vendors offer homegrown produce and plants, cheeses, bakery goods, coffee and more. 6 a.m.-2 p.m., Capitol Square.

**Michael Feldman's Whad 'Ya Know.** Live radio broadcast of this hilarious call-in quiz/humor program broadcast on National Public Radio. 9:30 a.m.-11:30 a.m., Monona Terrace Community and Convention Center, One John Nolen Dr. Call 261-4000.

**University Theatre Production-Ernest in Love.** This musical follows two young men as they bend the truth in order to add a dash of excitement to their bachelor lives. Enjoy drinks and snacks in the popular cabaret setting. 5 and 8:30 p.m., Gilbert Hemsley Theatre, Vilas Hall, 821 University Ave. Call 262-1500. Fee.

**Terrace Music-Richard Buckner, Americana.** Live music on Memorial Union's Terrace. (Rain location is the Rathskeller.) 9:30 p.m.-midnight. Call 262-2215.

**Sunday, June 27**

**Badger State Summer Games-Finals.** Olympic-style sports festival for WI residents of all ages. Various times and places throughout Madison. Call 251-3333. Free to the public.

**Badger State Games Bike Race.** 8:30 a.m., Capitol Square. Call 266-6033 or 266-4711.

**Elvehjem Tour for Drop-in Visitors.** 1:30 p.m., Paige Court, Elvehjem Museum of Art, 800 University Ave. Call 263-2246.

**Carillon Recital.** Tower tour following concert. 3-4 p.m., UW Memorial Carillon Tower, Observatory Dr. (near Bascom Hall). Call 262-1197 or 263-2374.

## ***Things to do with Children at (and near) UW-Madison***

Campus Assistance Center, 420 N Lake St, (608)263-2400

ARBORETUM (1207 Seminole Highway, 263-7888) A 1,240 acre outdoor ecological laboratory which is maintained by the UW-Madison for research and instruction, the Arboretum provides living examples of the major plant communities in the Midwest: prairies, woodlands, marshes, ponds and lakes. It's got lots of space for kids to run; great trails, too. Short (8-10 minutes) introductory slide shows, maps and information are available at the McKay Center which is open weekdays 9:30am to 4pm, weekends 12:30-4:00pm (weekend summer hours: 11am-3pm).

BABCOCK HALL (1605 Linden Dr., 262-3045) There is a dairy store on the 1st floor where freshly made milk, ice cream treats and Wisconsin cheese are for sale 9:00-5:30 Monday through Friday and 10:00-1:30 Saturday (open until 5:30 on Saturdays of home football games). From a 2nd floor observation balcony you can watch a modern dairy processing plant in operation Monday through Friday mornings; a brochure is available which describes the equipment and processes.

BIRGE HALL (Bascom Hill) On the 1st floor and 1st basement level there are rotating exhibits of natural history, biology and historical interest. Tours of the greenhouse, for groups of 10 or less, are available on a limited basis with advance notice. M-F 8am-4pm. (Visitors to the greenhouse must be older than 10 years old; greenhouse contact is Mohammed Mehdi Fayyaz, 262-2235.)

CAMPUS GREEN AREAS provide space, quiet, squirrels and a break from concrete, stop signs and right angles. Check a campus map or call Campus Assistance Center (263-2400) if you need directions to these oases: Picnic Point; Class of 1918 Marsh; Allen Centennial Gardens; John Muir Park and Knoll; Observatory Hill; Lakeshore Path; Camp Randall Park; Henry Mall; and Botany Garden.

CARILLON TOWER (1160 Observatory Dr.; recorded information, 262-1197) Carillon recitals are given at 3pm Sundays during Fall and Spring semesters and 8-week summer session. In addition, the tower is open during or following recitals (varies by month; consult recording).

CONCERTS (Call School of Music Concert Line, 263-9485).

DAIRY CATTLE CENTER (1815 Linden Dr., 262-2271) Visitors can observe the University's dairy research and instructional herd being milked seven days a week, starting at 3 pm. Reservations are not required.

ELVEHJEM MUSEUM OF ART (800 University Ave., 263-2246) The museum is one of the largest college galleries in the country. In addition to featuring special exhibitions, the Elvehjem has a permanent collection of paintings, sculptures and graphics from ancient times to the present. Open 9am to 5pm Monday through Sunday.

HENRY VILAS ZOO (702 S. Randall St., 266-4732) True, it's not a campus attraction, but it's a great zoo! It's Children's Zoo is open Memorial Day to Labor Day, and there are camel rides for kids on Sunday mornings in summer. Located nine blocks south of Union South on Randall; open 9:30am-4:45pm daily.

METEOROLOGY BUILDING (1225 W. Dayton St.) You can see live weather satellite pictures in the lobby whenever the building is open. (This satellite view is also available outside room 333 Bascom Hall and in Union South near the Dayton St. entrance.)

UW SPACE PLACE (1605 S. Park St., 262-4779) The Space Place offers regular public lectures, guest speakers and Saturday children's workshops; call for current schedule. (It is located just south of Arby's on S. Park St.)

UNION TERRACE on Lake Mendota behind Memorial Union is a nice location to enjoy the view of the lake.

UNIVERSITY THEATER (Call Vilas Box Office, 262-1500).

VIEWS FROM TALL BUILDINGS can be a real kick for kids. During regular building hours, you're welcome to check the views from Van Vleck Hall, Van Hise Hall, Educational Sciences or Wisconsin Alumni Research Foundation buildings.

WASHBURN OBSERVATORY (1401 Observatory Dr., 262-9274) On the 1st and 3rd Wednesday evenings of each month, if the sky is 75% clear, the Observatory is open to the public to see celestial sights such as the moon, planets, star clusters or nebulae. During the 8 week summer session the Observatory is open every Wednesday. The observatory opens at 9pm April through October, and at 7:30pm November through March.

A trip up State Street to the Capitol Square will get you in the neighborhood of these attractions:

MADISON CHILDRENS MUSEUM (State St. at Capitol Square, 256-6445) A museum devoted to the philosophy that learning by doing is child's play. On-going and changing exhibits appropriate for children ages 1-13. Admission: \$3, children under age 2 free. Open Tues-Sun 10am-5pm (Thurs until 8pm); closed Monday.

STATE CAPITOL TOURS (266-0382) Tours are free and leave from the ground floor of the rotunda; offered Mon-Sat 9, 10, 11am; 1, 2, 3pm. Sunday 1, 2, 3pm (call for holiday hours). Building is open 6am-8pm daily.

STATE HISTORICAL MUSEUM (30 N. Carroll St., 264-6555) Free; contains permanent exhibits on Wisconsin Indians, other exhibits that change three times each year, a gift shop and theater. Open Tues-Sat 10-5, Sunday Noon-5pm (closed Mondays and holidays).

WISCONSIN VETERANS MUSEUM (30 W. Mifflin St., 266-1680) Free; focuses on the contributions of state citizens to American military activities from the Civil War through the Persian Gulf conflict. Open Tues-Fri 9am-4:30pm, Sundays 12-4 Nov-April (closed Mondays).

**Call us for all your information needs!**

**Campus Assistance Center**

**263-2400**

# Mad Fun in The Mad City

## LET'S TALK FOOD!

### American Family Restaurants

Friday's	420 Gammon Place	833-8443
Houlihan's	1262 John Hammons Dr	827-0334
Chili's Grill & Bar	7301 Mineral Point Road	833-8851
Hooters	6654 Mineral Point Road	829-4668
Ovens of Brittany	3244 University Avenue	233-7701
Bluephies	2701 Monroe	231-3663

### Pizza

Pizzeria Uno Chicago Bar & Grill	222 West Gorham	833-7200
Edwardo's Natural Pizza Restaurant	6601 Mineral Point Road	833-9100
Sal's Pizzaria	313 State Street	251-2800

### Mexican

El Charro Mexican Food	1831 Monroe	255-1828
Pasqual's	2534 Monroe	238-4419
La Hacienda	515 South Park	255-8227
Taqueria Gila Monster	106 King Street	255-6425

### Asiatic

Imperial Garden	2039 Allen Boulevard	238-6445
Ginza of Tokyo	6734 Odana Road	833-8282
Sa-Bai Tong	2840 University Avenue	238-3100
Ton Ton Restaurant	122 State Street	251-2171
Wasabi	449 State Street	255-5020
Bahn Tai	944 Williamson	256-0202

### Fancy

Blue Marlin	101 North Hamilton	255-2255
Deb & Lola's	227 State Street	255-0820
Kosta's Restaurant	117 State Street	255-6671
L'Etoile	25 North Pinckney	251-0500
Louisianne's	7464 Hubbard Avenue	831-1929
Opera House	117 Martin Luther King Jr. Blvd	284-8466
White Horse Inn	202 North Henri	255-9933
Wild Iris Café	1225 Regent Street	257-4747

### From the Islands

Creole Café	2611 Monroe	233-6311
Jolly Bob's	1210 Williamson	251-3902

Caspian Café	17 University Square	259-9009
Horn of Africa	117 East Mifflin	255-2077
Kabul	541 State Street	256-6322

### Steak and Ribs

Damon's	8150 Excelsior Drive	836-6466
Big Mama & Uncle Fats Barbeque & Blues	6804 Odana Road	829-2683
Prime Quarter Steak House	3520 East Washington	244-3520

### Great Burgers

Dotty Dumplings Dowry	116 North Fairchild	255-3175
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### Italian

Pasta per Tutti	2009 Atwood Drive	242-1800
Tutto Pasta	State Street	.
Granita Restaurant	5518 University Avenue	233-2200

### A good lunch

Sunporch	2701 University Avenue	231-1111
Radical Rye	231 State Street	256-1200
Delitalia	2850 University Avenue	233-4800
Lou Lou's Deli and Restaurant	2524 University Avenue	233-2172

## WAKE ME UP IN THE MORNING!

### The Best Pancakes Ever

The Original Pancake House	320 North Midvale	231-3666
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### Coffee, Café and Caffe

Victor Allen's	2858 University Avenue	231-3222
Steep & Brew	2871 University Avenue	238-6878
Starbuck's	Across from Victor Allen	
Ancora Coffee	3310 University Avenue	

### Bagels

Bruegger's Bagels	3310 University Avenue	
Bagels Forever	2947 University Avenue	231-2427

## **NIGHT LIFE AND PARTY TIME!**

### **Pub and Breweries**

Blue Moon Bar & Grill	2535 University Avenue	233-0441
Great Dane Pub & Brewing Company	123 East Doty	284-0000
Angelic Brewery	322 West Johnson	257-2707
Café Montmartre	127 East Mifflin	255-5900
Union Terrace	Campus Memorial Union – great view of the lake Langdon Street (remember your nametag)	

### **Comedy Clubs**

Comedy Sports	449 State Street	255-8888
Funny Business	117 State Street	256-0099

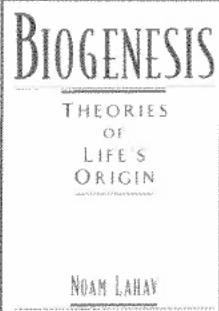
### **Dancing**

Bullwinkles	624 University Avenue	257-1122
Flashback	1313 John Q Hammon Drive	831-0202
The Cardinal (Salsa, Techno, etc.)	418 East Wilson	251-0080
Karoeke Kid	Next to Bullwinkle's	
Dry Bean (Country)	5264 Verona Road	274-2326

Please Check the Isthmus for weekly listings of local bands and concerts in various bars. All the movie theaters are listed in the local newspapers and the Isthmus for your browsing.

Note that the above are only recommendations. Please let your fingers do the walking in the yellow pages of the phone book and ask your friends and the locals for advice.

Enjoy **Madison**, the #1 mid-size city to live in the United States of America.



## BIOGENESIS

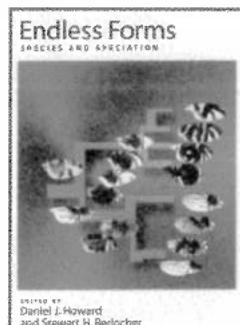
### Theories of Life's Origin

Noam Lahav, Emeritus Professor, Hebrew University of Jerusalem

This extraordinary new book provides a detailed, critical discussion of the modern scientific study of the origin of life. It includes biological, geological, and cosmological background material and explains the rationale behind the main assumptions and experimental strategies.

February 1999 368 pp.; 6 halftones, & 53 line illus

0-19-511754-9 cloth \$65.00  
0-19-511755-7 paper \$35.00



## ENDLESS FORMS

### Species and Speciation

Daniel Howard, New Mexico State University, and Stewart Berlocher, University of Illinois

This volume presents the newest findings on speciation, bringing readers up to date on species concepts, modes of speciation, and the nature of reproductive barriers. Topics include the forces that drive divergence, the genetics of reproductive isolation, and hybrid zones.

December 1998 496 pp.; 125 line-cuts

0-19-510900-7 cloth \$90.00  
0-19-510901-5 paper \$39.95

## REEF EVOLUTION

Rachel Wood

Using more than 250 illustrations and specially drawn ecological reconstructions of reef communities, Rachel Wood provides an evolutionary approach to understanding ancient coral reef ecosystems. This book is a useful resource for students and researchers in evolution, marine biology, ecology, paleontology, biodiversity, and geology.

July 1999 432 pp.; 162 halftones, and 122 linecuts

0-19-854999-7 cloth \$100.00  
0-19-857784-2 paper \$37.50

## EVOLUTION OF BIOLOGICAL DIVERSITY

### From Population

### Differentiation to Speciation

Anne Magurran, University of St. Andrews, and Robert May, Oxford University

This volume contains work by some of the world leaders in the field, including Simon Conway-Morris, Sir Robert May, and Stephen Jay Gould, who examine a variety of aspects from the ecological and behavioral basis for differentiation to the role of natural selection.

June 1999 352 pp.; 51 line, 2 halftones

0-19-850304-0 cloth \$105.00  
0-19-850305-9 paper \$45.00

## EVOLUTIONARY MEDICINE

Wenda Trevethan, New Mexico State University, James McKenna, University of Notre Dame, and E.O. Smith, Emory University

Evolution is the single most important idea in modern biology, shedding light on virtually every biological question, from the shape of orchid blossoms to the distribution of species across the planet. Collecting work from leaders in the field, this volume describes an array of new and innovative approaches to human health that are based on an appreciation of evolutionary history, covering issues at every stage of life from infancy to adulthood.

May 1999 512 pp.; 6 halftones, 33 linecuts

0-19-510355-6 cloth \$70.00  
0-19-510356-4 paper \$35.00

## FOSSILS AND EVOLUTION

Tom Kemp, Oxford University

This book focuses on the ideas, methodology and scope of contemporary palaeobiology, examining the complex interdependence of evolutionary theory and the interpretation of the fossil record. It demonstrates that this is not the circular argument between pattern and process sometimes alleged but a matter of the interrelationship between palaeontological and neontological evidence.

April 1999 304 pp.; 151 line, 10 halftones

0-19-850345-8 cloth \$80.00  
0-19-850424-1 paper \$37.00

## MATERNAL EFFECTS AS ADAPTATION

Timothy Mousseau, University of South Carolina, and Charles Fox, Fordham University

"Its main message is that maternal effects may often have evolved as adaptations for life in heterogeneous environments. The nineteen chapters fall into four groups: theoretical and conceptual issues; assessing and measuring maternal effects in various taxa...; and specific case studies in four taxa..." —

Environment  
1998 400 pp.; 73 illus.  
0-19-511163-X \$65.00

## EVOLUTION ON ISLANDS

### Originating from Contributions to a Discussion Meeting of the Royal Society of London

Isolated from the continental process of gene flow, islands display remarkable rapidity of diversifying evolution, as well as unique species. This book surveys our current knowledge and understanding of microevolution, speciation, and adaptive radiation on islands and is ideal for students and researchers.

1998 352 pp.; 96 halftones, linecuts, and maps

0-19-850172-2 cloth \$105.00  
0-19-850171-4 paper \$55.00

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# the diversity of life

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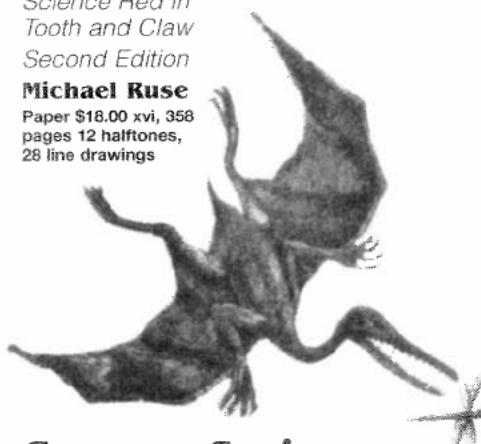
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Forthcoming

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Alexandre Meinesz

Translated by Daniel Simberloff

With a Foreword by David Quammen

Cloth \$25.00 352 pages

8 color plates, 5 line drawings, 7 maps

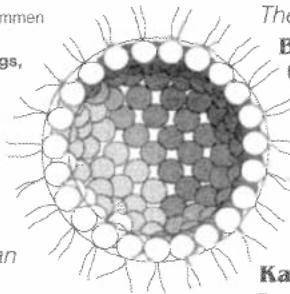
Forthcoming

## Tadpoles

The Biology of Anuran Larvae

Edited by Roy W. McDiarmid and Ronald Altig

Cloth \$70.00 456 pages (est.), 118 halftones, 181 line drawings, 23 tables



## Untangling Ecological Complexity

The Macroscopic Perspective

Brian A. Maurer

Paper \$18.00 x, 252 pages

36 line drawings, 6 tables, 1 map

## The Evolutionary Biology of Plants

Karl J. Niklas

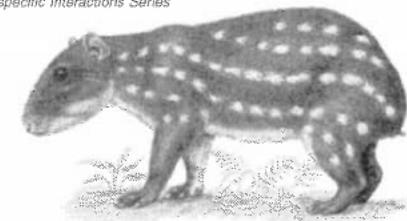
Paper \$20.00 xx, 450 pages 2 halftones, 126 line drawings, 7 tables

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Interspecific Interactions Series



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## SCHEDULE AT A GLANCE

	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>8-10am</b>	CONTRIBUTED PAPERS Sessions 1-7  <b>SYMPORIUM 1A</b> ASN Young Investigator Awards	<b>SYMPORIUM 3A</b> SSB: The evolutionary biology of prokaryotes  <b>8:30-10</b> CONTRIBUTED PAPERS Sessions 28-33	CONTRIBUTED PAPERS Sessions 53-58  <b>8-9:45</b> <b>SYMPORIUM 5A</b> SSE: What about molecular clocks?	CONTRIBUTED PAPERS Sessions 53-58  <b>8:30-10</b> CONTRIBUTED PAPERS Sessions 78-83	CONTRIBUTED PAPERS Sessions 53-58  <b>8:30-10</b> CONTRIBUTED PAPERS Sessions 78-83
<b>10-10:30am</b>	Break	Break	Break	Break	Break
<b>10:30-noon</b>	CONTRIBUTED PAPERS Sessions 8-13  <b>SYMPORIUM 1B</b> ASN Young Investigator and SSE Dobzhansky Award winners	CONTRIBUTED PAPERS Sessions 34-39  <b>SYMPORIUM 3B</b> SSB: The evolutionary biology of prokaryotes	CONTRIBUTED PAPERS Sessions 59-64  <b>10-12:00</b> <b>SYMPORIUM 5B</b> SSE: What about molecular clocks?	CONTRIBUTED PAPERS Sessions 59-64  <b>10-12:00</b> <b>SYMPORIUM 5B</b> SSE: What about molecular clocks?	CONTRIBUTED PAPERS Sessions 59-64  <b>10-12:00</b> <b>SYMPORIUM 5B</b> SSE: What about molecular clocks?
<b>noon-1:15pm</b>	<b>12:00-2:00</b> Joint SSE/ASN/SSB STEERING COMM.  Individual SSB/ ASN/ SSE EDITORIAL BOARD MTGS.	<b>Education Lecture:</b> Dr. Jay Labov  Lunch	<b>NSF Open forum:</b> Collaboratories in Evolutionary Biology  Lunch	<b>SSE BUSINESS MTG.</b>  <b>ASN BUSINESS MTG.</b>  Lunch	<b>SSE PRESIDENTIAL ADDRESS</b>  <b>1-2:00</b> CONTRIBUTED PAPERS Sessions 65-70  <b>SYMPORIUM 6A</b> SSE: Evolutionary biology of host-parasite systems
<b>1:15-3pm</b>	<b>1-5:00</b> SSE WORKSHOP Teaching evolution to undergraduates 1111 Genetics/BioTech	CONTRIBUTED PAPERS Sessions 14-20  <b>SYMPORIUM 2A</b> ASN: Species interactions and adaptive radiation	CONTRIBUTED PAPERS Sessions 40-46  <b>SYMPORIUM 4A</b> SSB: Molecular systematics and protein structure in the post-genomic world	CONTRIBUTED PAPERS Sessions 40-46  <b>SYMPORIUM 4A</b> SSB: Molecular systematics and protein structure in the post-genomic world	<b>2-3:00</b> CONTRIBUTED PAPERS Sessions 90-94

<b>2:15-5:00</b> Individual SSE/ASN/SSB COUNCIL MTGS.			
<b>3:30pm</b>	Break	Break	Break
		CONTRIBUTED PAPERS <b>Sessions 21-27</b>	CONTRIBUTED PAPERS <b>Sessions 47-52</b>
<b>3:30-5pm</b>		<b>SYMPOSIUM 2B</b> ASN: Species interactions and adaptive radiation	<b>SYMPOSIUM 4B</b> SSB: Molecular systematics and protein structure in the post-genomic world
			<b>3:30-4:45</b> CONTRIBUTED PAPERS <b>Session 95-98</b>
		4:30-5 SSB BUSINESS MTG.	<b>SYMPOTIUM 6B</b> SSE: Evolutionary biology of host-parasite systems
<b>5-6pm</b>		<b>5-6:00</b> ASN PRESIDENTIAL ADDRESS (MU Theatre)	<b>5:50-6:30</b> Buses to MT
			<b>5-6:00</b> <i>Special recognition</i> <i>event James Crow and</i> <i>his legacy</i> (MU Theatre)
<b>6-10pm</b>		<b>6-7:15</b> Reception (MT Rooftop Garden)	<b>6-9:00</b> <i>Final Reception</i> (MU)
		<b>6-7:30</b> Picnic Supper (MU Terrace and Balcony)	<b>9-2:00am</b> <i>End of Conference</i> <i>Dance Party</i> (Tripp Commons and Terrace, MU)
		<b>7-9:00</b> POSTER SESSION 1 (MU)	<b>8:45</b> Awards Ceremony
		<b>7-9:00</b> POSTER SESSION 2 (MU)	<b>9:30-10</b> Buses return to MU

# new books from yale

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Henry Harris

## Birds of Madagascar

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*Darwinism Today* is a series of books by leading figures in the field of evolutionary theory. The series developed out of a program at the London School of Economics that presents the latest Darwinian thinking and explores its application to humans. Helena Cronin and Oliver Curry, Series Editors

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Kingsley Browne

## Neanderthals, Bandits, and Farmers

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Georgius Everhardus Rumphius  
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## Life in the Treetops

*Adventures of a Woman in Field Biology*  
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## Joseph Leidy

*The Last Man Who Knew Everything*  
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## Mammals of Madagascar

Nick Garbutt

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## The Truth About Cinderella

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Stephen Budiansky  
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# Education Lecture

Dr. Jay Labov  
National Research Council

Improving Undergraduate Science  
Education: Roles and Opportunities for  
Professional Societies

When: June 23 at 12 noon  
Where: State Historical Society  
Auditorium

*Jay Labov, Director of the Division on Postsecondary Policy and Practice at the National Research Council's Center for Science, Mathematics, and Engineering Education, will discuss the "landscape" of national initiatives to improve undergraduate education and how professional disciplinary societies can contribute to these efforts. Topics to be discussed will include the National Science Education Standards for Grades K-12 and their implications for undergraduate education, the changing nature of introductory courses, and the roles and responsibilities of scientists in improving the preparation of future K-12 teachers. Following the presentation, SSE members will have the opportunity to discuss specifics about how the Society can become more effectively engaged in these kinds of activities.*

### **What has the Education Committee Done Lately?**

November 4-5, 1998. Aimed primarily at high school teachers, the SSE/SMBE symposium at the National Association of Biology Teachers entitled "Building the Web of Life: Evolution in Action." featured speakers David Jablonski, Linda Strausbaugh, and Steve Palumbi.

June 22, 1999. A workshop entitled "Teaching Evolution to Undergraduates" brought together a number of excellent speakers and faculty to discuss approaches to improving the teaching of evolution.

June 23, 1999. The Education Poster Session at this meeting is greatly expanded and will feature a wide variety of topics from curricula to public understanding of evolution.

1998-1999: A membership survey indicated that many members are interested in working in their local schools. Other members have volunteered to serve as expert consultants for curriculum developers, construct laboratory exercises, and contribute to planning an SSE Web site.

October 8, 1999. The SSE will sponsor a scientific symposium at SACNAS (Society for the Advancement of Chicanos and Native Americans in Science) featuring speakers Jeff Long, Allen Rodrigo, Scott Williams, and Linda Strausbaugh.

*Have more ideas?*

*Please meet the members of the committee and share your thoughts at the  
Education Poster Session.*

## Schedule Of Sessions

### WEDNESDAY, 23 JUNE

8:30-10:00	<u>SYMP. 1A: ASN YOUNG INVESTIGATOR AWARDS</u>	RM: MUT
8:00-10:00	Contributed Paper Sessions 1-7	Room
1	Adaptation: behavior	SHSA
2	Coevolution	MUTC
3	Developmental Evolutionary Biology	G1100
4	Quantitative Genetics	H3650
5	Macroevolution	MUPC
6	Mating/Breeding Systems: animals	H1111
7	Molecular Systematics: plants	ED147
10:30-12:00	<u>SYMP. 1B: ASN YOUNG INVESTIGATOR AND SSE DOBZHANSKY PRIZE AWARDS</u>	RM: MUT
10:30-12:00	Contributed Paper Sessions 8-13	Room
8	Adaptation: life histories	MUPC
9	Biogeography/Geographic Variation: vertebrates	MUTC
10	Molecular Systematics: metazoans	ED147
11	Speciation and Cladogenesis	H3650
12	Molecular Evolution: population genetics	G1100
13	Conservation Genetics	SHSA
1:15-3:00	<u>SYMP. 2A: ASN SPECIES INTERACTIONS AND ADAPTIVE RADIATION</u>	RM:MUT
1:15-3:00	Contributed Paper Sessions 14-20	Room
14	Conservation Genetics	H3650
15	Combined-Data Systematics	G2080
16	Developmental Evolutionary Biology	MUTC
17	Molecular Systematics: mammals	G2120
18	Molecular Systematics: birds	G1100
19	Mating/Breeding Systems: plants	SHSA
20	Artificial Selection/Experimental Evolution: plants and viruses	MUPC
3:30-5:00	<u>SYMP. 2B: ASN SPECIES INTERACTIONS AND ADAPTIVE RADIATION</u>	RM:MUT
3:30-5:15	Contributed Paper Sessions 21-27	Room
21	Combined-Data Systematics	G2080
22	Hybridization and Hybrid Zones: plants and animals	H3650
23	Mating/Breeding Systems: plants	G1100
24	Molecular Evolution: genomes	SHSA
25	Molecular Evolution	MUPC
26	Molecular Systematics: mammals	G2120
27	Developmental Evolutionary Biology	MUTC
7:00-9:00	<u>POSTER VIEWING</u>	MEMORIAL UNION

ED147= Education 147

G1100= Granger Hall 1100

MUT= Mem. Union Theater

S180= Science Hall 180

G2080= Granger Hall 2080

MUTC= Mem. Union Tripp Commons

H1111= Humanities 1111

G2120= Granger Hall 2120

MUPC= Mem. Union Play Circle

H3650= Humanities 3650

G4151= Granger Hall 4151

SHSA= State Hist. Society Aud.

**THURSDAY, 24 JUNE**

<u>8:00-10:00</u>	<u>SYMP. 3A: SSB THE EVOLUTIONARY BIOLOGY OF PROKARYOTES</u>	<u>RM: MUT</u>
(Symposium Starts At 8, Contributed Papers Start At 8:30)		
<u>8:30-10:00</u>	<u>Contributed Paper Sessions 28-33</u>	<u>Room</u>
28	Population and Ecological Genetics	MUTC
29	Molecular Evolution	G1100
30	Mating/Breeding Systems: plants	MUPC
31	Population Genetics	SHSA
32	Molecular Systematics: mammals	ED147
33	Analysis of Life Histories and Sexual Selection	H3650
<u>10:30-12:00</u>	<u>SYMP. 3B: SSB THE EVOLUTIONARY BIOLOGY OF PROKARYOTES</u>	<u>RM: MUT</u>
<u>10:30-12:00</u> <u>Contributed Paper Sessions 34-39</u> <u>Room</u>		
34	Artificial Selection/Experimental Evolution: mice and flies	SHSA
35	Population Genetics: molecular evolution	MUTC
36	Measuring Selection	MUPC
37	Population Genetics: geographic variation	H3650
38	Molecular Systematics: fish	ED147
39	Ecological Genetics	G1100
<u>1:15-3:00</u>	<u>SYMP. 4A: SSB MOLECULAR SYSTEMATICS AND PROTEIN STRUCTURE IN THE POST-GENOMIC WORLD</u>	<u>RM: MUT</u>
<u>1:15-3:00</u>	<u>Contributed Paper Sessions 40-46</u>	<u>Room</u>
40	Analysis of Life Histories	G2080
41	Conservation Genetics	MUPC
42	Species Interactions	G1100
43	Sexual Selection	H1111
44	Ecological Genetics	MUTC
45	Molecular Systematics: arthropods	H3650
46	Population Genetics and Fluctuating Asymmetry	SHSA
<u>3:30-5:00</u>	<u>SYMP. 4B: SSB MOLECULAR SYSTEMATICS AND PROTEIN STRUCTURE IN THE POST-GENOMIC WORLD</u>	<u>RM: MUT</u>
<u>3:30-5:00</u>	<u>Contributed Paper Sessions 48-53</u>	<u>Room</u>
47	Artificial Selection/Experimental Evolution	G2080
48	Sexual Selection	MUPC
49	Biogeography/Geographic Variation: mammals	G1100
50	Quantitative Trait Loci	SHSA
51	Systematics: methods	H3650
52	Population Genetics: geographic variation	MUTC
<u>5:00-6:00</u>	<u>ASN PRESIDENTIAL ADDRESS</u>	<u>RM: MUT</u>
<u>7:00-9:00</u>	<u>POSTER VIEWING</u>	<u>MEMORIAL UNION</u>

ED147= Education 147  
 S180= Science Hall 180  
 H1111= Humanities 1111  
 H3650= Humanities 3650

G1100= Granger Hall 1100  
 G2080= Granger Hall 2080  
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**FRIDAY, 25 JUNE**

<u>8:00-9:45</u>	<u>SYMP. 5A: SSE WHAT ABOUT MOLECULAR CLOCKS?</u>	<u>RM: MUT</u>
<u>8:00-10:00</u>	<u>Contributed Paper Sessions 53-58</u>	<u>Room</u>
53	Biogeography/Geographic Variation: insects	MUTC
54	Coevolution	H3650
55	Molecular Systematics: arthropods	S180
56	Sexual Selection	MUPC
57	Molecular Systematics: plants	G1100
58	Analysis Of Life Histories: senescence and trade-offs	SHSA
<u>10:00-12:00</u>	<u>SYMP. 5B: SSE WHAT ABOUT MOLECULAR CLOCKS?</u>	<u>RM: MUT</u>
<u>10:30-12:00</u>	<u>Contributed Paper Sessions 59-64</u>	<u>Room</u>
59	Biogeography: fish	H3650
60	Evolution of Sex and Sex Determination	MUPC
61	Speciation and Cladogenesis	G2080
62	Combined-Data Systematics	SHSA
63	Ecological Genetics	S180
64	Evolutionary Biology of Parasites, Pathogens and Their Hosts (Companion session to afternoon SSE Symposium 6)	MUTC
<u>1:15-3:15</u>	<u>SYMP. 6A: SSE EVOLUTIONARY BIOLOGY OF PARASITES, PATHOGENS AND THEIR HOSTS</u>	<u>RM: MUT</u>
<u>1:15-3:00</u>	<u>Contributed Paper Sessions 65-70</u>	<u>Room</u>
65	Biogeography: birds	MUTC
66	Adaptation: life histories	H3650
67	Sexual Selection	S180
68	Population Genetics: molecular evolution	SHSA
69	Molecular Evolution: genomes	G2080
70	Molecular Systematics: metazoa	G1100
<u>3:30-5:00</u>	<u>SYMP 6B: SSE EVOLUTIONARY BIOLOGY OF PARASITES, PATHOGENS AND THEIR HOSTS</u>	<u>RM: MUT</u>
<u>3:30-5:15</u>	<u>Contributed Paper Sessions 71-77</u>	<u>Room</u>
71	Biogeography: plants	G2120
72	Ecological Genetics	H1111
73	Systematics and Character Evolution	MUTC
74	Species Interactions	G1100
75	Biogeography: metazoans	SHSA
76	Molecular Evolution: phylogeny-based comparative analyses	S180
77	Adaptation: life histories	H3650

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**SATURDAY, 26 JUNE**

<u>8:30-10:00</u>	<u>Contributed Paper Sessions 78-83</u>	<u>Room</u>
78	Molecular Systematics: methods	G2080
79	Hybridization and Hybrid Zones: animals	MUPC
80	Phenotypic Plasticity	H3650
81	Molecular Systematics: birds	G2120
82	Population Genetics	MUTC
83	Molecular Evolution	G1100
<u>10:30-12:00</u>	<u>Contributed Paper Sessions 84-89</u>	<u>Room</u>
84	Mating/Breeding Systems	G2080
85	Hybridization and Hybrid Zones: plants	S180
86	Developmental Evolutionary Biology	G1100
87	Molecular Evolution: population genetics	MUTC
88	Phenotypic Plasticity	H3650
89	Molecular Evolution: rates and constraints	MUPC
<u>1:00-2:00</u>	<u>SSE PRESIDENTIAL ADDRESS</u>	<u>RM: MUT</u>
<u>2:00-3:00</u>	<u>Contributed Paper Sessions 90-94</u>	<u>Room</u>
90	Analysis of Life Histories	MUPC
91	Population Genetics: theory and methods	MUTC
92	Quantitative Genetics	G1100
93	Molecular Systematics: methods	H3650
94	Mechanisms of Post-Mating Reproductive Isolation	G2080
<u>3:30-4:45</u>	<u>Contributed Paper Sessions 95-98</u>	<u>Room</u>
95	Molecular Systematics: vertebrates	MUTC
96	Population Genetics: coevolution and conservation	G1100
97	Quantitative Genetics	H3650
98	Speciation and Cladogenesis	MUPC
<u>5:00-6:00</u>	<u>CROWFEST</u>	<u>RM: MUT</u>

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 H1111= Humanities 1111  
 H3650= Humanities 3650

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 G2080= Granger Hall 2080  
 G2120= Granger Hall 2120  
 G4151= Granger Hall 4151

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**Scientific Program**  
**Oral Presentation Schedule**

**Wednesday, 23 June**

**8:00-10:00**

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**SYMPOSIUM 1A ASN: YOUNG INVESTIGATOR AWARDS**

**8:30-10:00 RM:MUT**

- Organizer: Guy Bush
- 1 8:30 Multi-level selection and the general life history problem  
T. Day
- 2 9:00 Induced plant defense against herbivory: adaptive plasticity and beyond  
A.A. Agrawal
- 3 9:30 Are terrestrial ecologists all wet or are aquatic ecologists all dried up? Viewing traits and trade-offs at the macro-scale and the context dependence of ecological patterns  
J.M. Chase

**SESSION 1 ADAPTATION: BEHAVIOR**

**8:00-10:00 RM: SHSA**

- Chair: Catherine Craig
- 4 8:00 Surviving attack by predators: behavior, speed, and escape success of guppies  
\*S. O'Steen, A. F. Bennett
- 5 8:15 Host choice and genetic differentiation among populations of the weevil *Larinus cynarae*  
\*I.Olivieri, Y. Dubois, Y. Michalakis
- 6 8:30 Sensory drive in the evolution of stabilimenta in spider webs  
T.A. Blackledge
- 7 8:45 Heritable variation in web-decorating is maintained by a selective conflict between the predators of spiders and spider prey  
C. Craig
- 8 9:00 Morphology, physiology, and locomotor performance in phrynosomatid lizards  
\*K.E. Bonine, T.T. Gleeson, T. Garland, Jr.
- 9 9:15 Has 130 year-old Mullerian mimicry theory been overturned?  
J. Mallet
- 10 9:30 Evolutionary diversification of a sound producing apparatus in spiny lobsters (Palinuridae)  
S. Patek
- 11 9:45 CANCELLATION

**SESSION 2 COEVOLUTION**

**8:00-10:00 RM:MUTC**

- Chair: Andrew Peek
- 12 8:00 Cospeciation of deep-sea clams and their symbiotic sulfur-oxidizing gill bacteria  
A.S. Peek†
- 13 8:15 Coevolution in dioecious fig pollination: inferences from phylogeny  
G. D. Weiblen†
- 14 8:30 Primates and their pinworm parasites: the Cameron hypothesis revisited  
\*J.P. Hugot
- 15 8:45 Phylogeny and co-evolution of galliform birds and *gag* retroelements  
\*D.E. Dimcheff†, S. Drovetskii, D.P. Mindell

- 16 9:00 Lizard malaria in a Caribbean jungle: reconciling phylogenies of *Anolis* and *Plasmodium*  
\*S.L. Perkins, M.A. Charleston
- 17 9:15 The role of host immunity in the evolution of virulence in malaria parasites  
\*M.J. Mackinnon, A.F. Read
- 18 9:30 Virulence and transmission dynamics of parasitic nematodes  
\*D.L. Medica, P.E. Smouse, M.V.K. Sukhdeo
- 19 9:45 Playing by different rules: evolution of virulence in pathogens that sterilize  
\*K.J. O'Keefe, S.A. Richards, W.G. Wilson

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**SESSION 3 DEVELOPMENTAL EVOLUTIONARY BIOLOGY**

**8:00-10:00 RM:G1100**

- Chair: Gunter Paul Wagner
- 20 8:00 Hox gene expression and modes of digit development: implications for the homology of the urodele autopodium  
\*G.P. Wagner, M. DiLuna, C.-H. Chiu
- 21 8:15 Developmental consequences of natural hyperthermia and heat-shock proteins in *Drosophila melanogaster*  
\*S.P. Roberts, M.E. Feder
- 22 8:30 Morphometric analysis of a *Drosophila* mutant with a wing phenotype of variable expressivity  
\*J.M. Marcus, C.P. Klingenberg
- 23 8:45 Development and evolution of allometry in insects  
\*D.J. Emlen, D.L. Stern
- 24 9:00 Why do almost all mammals have 7 cervical vertebrae? Developmental constraints, hox genes and cancer.  
F. Galis
- 25 9:15 Detecting global heterochrony: how similar do ontogenies have to be?  
\*M.L. Zelditch, W.L. Fink
- 26 9:30 Ontogeny and phylogeny of the crocodylian limb skeleton  
H.C.E. Larsson

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**SESSION 4 QUANTITATIVE GENETICS**

**8:00-10:00 RM:H3650**

- Chair: Derek Roff
- 27 8:00 Predicting correlated responses in natural populations: changes in JHE activity in the Bermuda population of the sand cricket  
\*D.A. Roff, D.J. Fairbairn
- 28 8:30 Quantitative genetics of function-valued traits: estimating mutational variance for age-specific mortality rates in *Drosophila*  
\*S.D. Pletcher, C.J. Geyer
- 29 8:45 The rate of mildly deleterious mutation in *Drosophila*: new estimates, a reanalysis of the old studies, and the effects of genotype-environment interactions on the estimates  
J.D. Fry
- 30 9:00 Genetic variation and phenotypic plasticity in the timing of migration of the blackcap (*Sylvia atricapilla*)  
\*F. Pulido, P. Berthold
- 31 9:15 Comparing levels of selection over a range of competitive environments: does the level of analysis, phenotypic, paternal, or maternal, alter predicted response to selection?  
\*D.A. Thiede, M.L. Stanton, B.A. Roy

- 32 9:30 A demographic - evolutionary model for the effects of supplementation and introgression  
J. Tufto

- 33 9:45 A covariance approach to understanding interspecific selection  
\*E.D. Brodie III, B. Ridenhour, A. Agrawal

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**SESSION 5 MACROEVOLUTION** 8:00-10:00 RM:MUPC

- Chair: Gunther Eble
- 34 8:00 Origination patterns in the fossil record  
G.J. Eble
- 35 8:15 Assessing evolutionary patterns in floral morphology  
M.S. Brady
- 36 8:30 Life-history evolution, biogeography, and diversification in Hydrophyllaceae: a test of the angiosperm family-pairs hypothesis  
D.M. Ferguson†
- 37 8:45 Comparative methods, classes, and individuals: what does catostomid gill raker length have to do with this mess?  
P.W. Willink
- 38 9:00 Phylogenetic perspectives on cauliflory.  
B. A. Whitlock†
- 39 9:15 Can molecular data demonstrate ancient mass extinctions and adaptive radiations?  
J. Alroy
- 40 9:30 Interval directed graphs and stratigraphic constraints  
\*G.F. Estabrook, F.R. McMorris
- 41 9:45 A proposed method for increasing the power and rigor of replicated tests of key innovation hypotheses  
\*B.R. Moore, K.M.A. Chan

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**SESSION 6 MATING/BREEDING SYSTEMS: ANIMALS** 8:00-10:00 RM: H1111

- Chair: Jodie Painter
- 42 8:00 Multiple paternity in wood mice: causes and consequences  
\*G. Gerlach, J. Seckinger
- 43 8:15 Emancipation in harems? Paternity, reproductive success and relatedness in the bat *Saccopteryx bilineata*  
G. Heckel
- 44 8:30 Using microsatellites to untangle relatedness and helping behaviour in a cooperatively breeding bird  
\*J. Painter, R.H. Crozier, M.F. Clarke
- 45 8:45 tra-2 regulation and mating system evolution in the nematode genus *Caenorhabditis*  
\*E.S. Haag, J.E. Kimble
- 46 9:00 Breeding systems and hummingbird evolution  
R. Bleiweiss
- 47 9:15 Microsatellite analyses of parentage and nest-guarding in the tesselated darter (PISCES: Percidae)  
\*J.A. DeWoody, D. Fletcher, J.C. Avise

- 48 9:30 Origin and diversification of haplodiploid, inbreeding scolytid beetle lineages  
\*B.B. Normark, B.H. Jordal, B.D. Farrell
- 49 9:45 Genetic analysis of sequential clutches in the Painted Turtle, *Chrysemys picta*: sperm storage and remating behavior of individual females  
\*D.E. Pearse, F.J. Janzen, J.C. Avise

**SESSION 7 MOLECULAR SYSTEMATICS: PLANTS**

**8:00-10:00 RM:ED147**

Chair: Susanne Renner

- 50 8:00 Phylogenetics of the genus *Dahlia* (Asteraceae)  
\*D.E. Saar, P.D. Sorensen, N.O. Polans
- 51 8:15 Molecular phylogenetics and character evolution in the recently resurrected plant family Themidaceae  
\*J.C. Pires†, K.J. Sytsma
- 52 8:30 The molecular systematics and biogeography of the Australian scleromorphic genus *Banksia* (Proteaceae)  
\*A.R. Mast†, T.J. Givnish
- 53 8:45 Dating branching times in Melastomataceae (Myrtales)  
\*S.S. Renner, G. Clausing, K. Meyer
- 54 9:00 Building grass trees  
\*G. Petersen, O. Seberg
- 55 9:15 Phylogeny of gingers  
L. Buchholt Pedersen†
- 56 9:30 Phylogeny of a newly circumscribed Saxifragales: implications for floral diversification in an ancient clade of eudicots.  
\*M. Fishbein, C. Hibsch-Jetter, D. Soltis, L. Hufford, S.B. Hoot
- 57 9:45 A phylogenetic analysis of the tribes Beslerreae and Napeontheae (Gesnerraceae): parsimony and maximum likelihood analyses of ndhF sequences  
J. F. Smith

**SYMPOSIUM 1B: ASN YOUNG INVESTIGATOR WINNERS AND**

**SSE DOBZHANSKY PRIZE PRESENTATION**

**10:30-12:00 RM:MUT**

Organizer: Guy Bush

- 58 10:30 Extinctions, colonizations and genetic differentiation of populations  
P.K. Ingvarsson
- 59 11:00 Incest ain't always best: causes and consequences of inbreeding in a natural vertebrate population  
L. Keller
- 60 11:30 Indirect genetic effects from social interactions  
J. Wolf - SSE Dobzhansky Prize

**SESSION 8 ADAPTATION: LIFE HISTORIES**

**10:30-12:00 RM:MUPC**

Chair: John Endler

- 61 10:30 Evolution of crypsis during signaling: when colorful does not matter  
J. A. Endler
- 62 10:45 A comparative test of ecological factors that influence character release in Adirondack sunfish  
B.W. Robinson

- 63 11:00 Covariation of morphology, ecology and locomotor performance in dragonfly larvae  
\*J.V. Robinson, M.L. Price
- 64 11:15 Morphological plasticity and trade-offs induced by an invading crab predator  
\*G.C. Trussell, L.D. Smith
- 65 11:30 Sexual dimorphism and adaptive patterns in Caribbean Anolis lizards: have males and females evolved independent "niches"?  
M.A. Butler
- 66 11:45 CANCELLATION

**SESSION 9 BIOGEOGRAPHY/GEOGRAPHIC VARIATION: VERTEBRATES**

**10:30-12:00 RM:MUTC**

Chair: Anne Yoder

- 67 10:30 Paleodispersals of the orangutan: population genetics meets GIS and bathymetry  
C. Muir†
- 68 10:45 Pleistocene glaciation, population substructure, and genetic differentiation in long-generation time vertebrates: a case study in eastern Australian turtles  
\*H. B. Shaffer, B. L. Storz, A.E. Georges, D. Starkey
- 69 11:00 Intra- and interspecific phylogenies of *Desmognathus* salamanders across the eastern Continental Divide  
L.J. Rissler
- 70 11:15 Population genetic analysis of the evolution of a color pattern polymorphism shared among species of frogs  
A. J. Crawford
- 71 11:30 Riverine diversification of Amazonian rats: uncoupling history from local ecology  
\*M.D. Matocq, M.N.F da Silva, J.L. Patton
- 72 11:45 Genetic data contradict established views of mouse lemur biogeography and taxonomy  
\*A.D. Yoder, R. Rasoloarison, J.A. Irwin, J. Ganzhorn, S. Goodman, S. Atsalis

**SESSION 10 MOLECULAR SYSTEMATICS: METAZOANS**

**10:30-12:00 RM:ED147**

Chair: Jeffrey Boore

- 73 10:30 Assessing the origins and monophyly of lophophorate metazoans with hox genes  
\*K.M. Halanych, Y. Passamanek
- 74 10:45 Long-branch attraction in metazoan phylogenetics: investigation of examples from real data  
\*F.E. Anderson†, D.L. Swofford
- 75 11:00 Comparing complete mitochondrial genomes for metazoan phylogeny  
\*J.L. Boore, D.V. Lavrov, K.G. Helfenbein, L. Rosenberg, W.M. Brown
- 76 11:15 Arthropod phylogeny based on gene arrangement and other characters from mtDNA  
\*D.V. Lavrov†, W.M. Brown
- 77 11:30 Lophophorate phylogeny: An analysis of mtDNA  
\*K. G. Helfenbein, J. L. Boore, W. M. Brown
- 78 11:45 Are the Microhylidae (Anura:Neobatrachia:Ranoidea) monophyletic?  
\*H.E. Robeck†

**SESSION 11 SPECIATION AND CLADOGENESIS**

**10:30-12:00 RM:H3650**

Chair: Maria Servedio

- 79 10:30 Reinforcement and the genetics of non-random mating  
M.R. Servedio

- 80 10:45 Null models of phylogenetic asymmetry and the estimation of cladogram probabilities  
\*K.M.A. Chan†, B.R. Moore
- 81 11:00 Genetic differentiation and speciation in *Silene*  
\*L.C. Moyle, J. Antonovics
- 82 11:15 Cryptic crab spiders: molecular evidence for adaptive radiation in Hawaii  
\*J.E. Garb†, R.G. Gillespie
- 83 11:30 Positive selection promotes lineage-specific evolution of gamete incompatibility in neotropical sea urchins  
M.A. McCartney
- 84 11:45 Evolution of pollination systems in Sinningieae (neotropical gesneriads): a phylogenetic approach based on molecular, morphological, and biochemical data  
\*M. Perret, V. Savolainen, A. Chautems, R. Spichiger

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**SESSION 12 MOLECULAR EVOLUTION: POPULATION GENETICS**

**10:30-12:00 RM:G1100**

Chair: Mary Kuhner

- 85 10:30 DNA variation in a 10 kb noncoding region in human populations  
\*Z. Zhao, L. Jin, Y-X. Fu, W-H. Li
- 86 10:45 Polymorphism and divergence in *Drosophila* accessory gland proteins  
\*A.G. Clark, B. Todd, D.J. Begun
- 87 11:00 Use of single nucleotide polymorphism data to estimate population parameters  
\*M.K. Kuhner, J. Yamato, P. Beerli, J. Felsenstein
- 88 11:15 Molecular evolution of a yeast prion  
\*M. A. Jensen, H. True-Krob, Y. O. Chernoff, S. L. Lindquist
- 89 11:30 Molecular evolution of genes on the neo-sex chromosomes of *Drosophila miranda*  
\*S. Yi, B. Charlesworth
- 90 11:45 Gene duplication and the origin of vertebrates  
A. P. Martin

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**SESSION 13 CONSERVATION GENETICS**

**10:30-12:00 RM:SHSA**

Chair: Melanie Culver

- 91 10:30 An evaluation of the usefulness of microsatellite DNA for measuring genetic diversity in bottlenecked populations  
\*C.C. Spencer, J.E. Neigel, P.L. Leberg
- 92 10:45 Automated genetic typing using oligonucleotide ligation assay - an example for whale species identification  
\*F. Cipriano, S. R. Palumbi
- 93 11:00 Genetic diversity of a captive breeding colony of the endangered swift fox, using microsatellites  
\*S.Bremner, M.J. Stanhope, P. Prodoohl
- 94 11:15 Genetic evidence for a South American origin of modern pumas (*Puma concolor*): a phylogeographic study using mitochondrial DNA and microsatellites  
\*M. Culver, W.E. Johnson, J. Pecon-Slattery, S.J. O'Brien
- 95 11:30 Conservation genetics and molecular systematics of sturgeon  
\*P. Doukakis, V.J. Birstein, R. DeSalle
- 96 11:45 Nearly-neutral evolution and persistence of small populations: the paradox of desert fishes  
\*J. Wilcox†, A. P. Martin

SYMPOSIUM 2A ASN: SPECIES INTERACTIONS AND ADAPTIVE RADIATION				1:15-3:00 RM:MUT
Organizer: Dolph Schlüter				
97	1:15	Introduction	D. Schlüter	
98	1:30	The role of ecological character displacement in adaptive radiation	D. Schlüter	
99	2:00	Comparative analysis of character displacement: a theoretical consideration illustrated by the evolution of <i>Dalechampia</i> blossoms	*T.F. Hansen, W.S. Armbruster	
100	2:30	Character displacement of species that share predators	P. A. Abrams	
SESSION 14 CONSERVATION GENETICS				1:15-3:00 RM:H3650
Chair: Theresa Bert				
101	1:15	Family and population outcrossing rates in the narrow endemic plant <i>Eriogonum ovalifolium</i> var. <i>vineum</i> : implications for conserving an endangered taxon	*M. Neel, J. Ross, N.C. Ellstrand	
102	1:30	Genetic erosion in traditional crop populations: a case study with avocado	*K. Birnbaum, R. DeSalle, P. Benfey	
103	1:45	Buckley's chance mate: European honeybees and plant population genetics in Australia	*T. Celebrezze, D. Ayre, R. Whelan, P. England	
104	2:00	Conservation genetics of an endangered land snail in the southwestern USA: what is a Kanab ambersnail?	*M.P. Miller, L.E. Stevens, J.D. Busch, J. Sorensen, P. Keim	
105	2:15	Genetic variation in different forms of rare species: a computer model of Rabinowitz's seven forms of rarity	*M.A. Gitzendanner, R. Gomulkiewicz	
106	2:30	Population genetics and conservation status of <i>Speyeria idalia</i> (Regal Fritillary) (Lepidoptera: Nymphalidae)	B. Williams	
107	2:45	Components of a program to monitor the genetic effects of hatchery-based stock enhancement	*T. Bert, M. Tringali, A. Wilbur, C. Crawford, S. Seyoum	
SESSION 15 COMBINED-DATA SYSTEMATICS				1:15-3:00 RM:G2080
Chair: Timothy Collins				
108	1:15	Temporal congruence and the origin of birds - is there a "temporal paradox?"	*C.A. Brochu, M.A. Norell	
109	1:30	Molecular, morphological, and paleontological perspectives on the radiation of the Gastropoda	*T.M. Collins, R. Bieler, T. A. Rawlings	
110	1:45	Systematics of cypridinid ostracode crustaceans: evolutionary history of cypridinid bioluminescence and the molecular evolution of luciferase	*E. Torres	
111	2:00	Phylogenetic relationships and evolution of biomechanics in labrid fishes	M. W. Westneat	
112	2:15	Phylogenetic relationships of boine snakes inferred from multiple data sets	B.P. Noonan†	

- 113 2:30 Phylogenetic relationships, species boundaries, and biogeography of Australasian pythons of the *Morelia amethistina* complex  
\*P.T. Chippindale, M.B. Harvey, L.K. Ammerman, D.G. Barker, T.L. Barker

- 114 2:45 The Coleochaetales: multi-gene phylogeny and alpha taxonomy in a key green algal group  
\*M.T. Cimino, K.G. Karol, K.J. Sytsma, C.F. Delwiche

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**SESSION 16 DEVELOPMENTAL EVOLUTIONARY BIOLOGY**

**1:15-3:00 RM:MUTC**

Chair: John Finnerty

- 115 1:15 Ancient origins of axial patterning genes: hox and parahox genes in the Cnidaria  
\*J.R. Finnerty, M.Q. Martindale

- 116 1:30 Evolution of chromosomal rearrangements in ciliates  
\*L.A. Katz, J.L. Riley

- 117 1:45 Differential gene expression and reproductive caste determination in honey bees  
\*J. D. Evans, D.E. Wheeler

- 118 2:00 Rapid incipient speciation via divergence of developmental genetic pathways  
\*N. A. Johnson, A. H. Porter

- 119 2:15 The preservation of duplicate genes by degenerative mutations  
\*M. Lynch, A. Force

- 120 2:30 Gene duplication, hox genes, and the origin of morphological complexity  
A. Force

- 121 2:45 CANCELLATION

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**SESSION 17 MOLECULAR SYSTEMATICS: MAMMALS**

**1:15-3:00 RM:G2120**

Chair: Carey Krajewski

- 122 1:15 SINE flanking sequences and insertions: quantifying relationships among cetartiodactyls  
\*J.K. Lum, M. Nikaido, N. Okada, M. Hasegawa

- 123 1:30 Multiple independent SINE insertions at identical loci in deer mouse species  
\*M.A. Cantrell, H.A. Wichman

- 124 1:45 A molecular perspective on microbat paraphyly using nuclear and mitochondrial genes  
\*E. C. Teeling, M. S. Springer, M. J. Stanhope

- 125 2:00 Highly congruent molecular support, from a variety of loci, for the paraphyly of the elephant shrew genus *Elephantulus*, with hypotheses on its biogeographic origins  
\*C.J. Douady, F.M. Catzfleis, M.S. Springer, M.J. Stanhope

- 126 2:15 A molecular phylogenetic examination of interordinal relationships within the mammalian clade Afrotheria, using a large concatenated nuclear gene data set  
\*M. Scally, M.S. Springer, M.J. Stanhope

- 127 2:30 Investigating the utility of L1 Retrotransposons in the systematics of homonid primates  
\*J.E. Norman†, A. Furano

- 128 2:45 Molecular evidence for the timing of cladogenesis in dasyurid marsupials  
\*C. Krajewski, S. Wroe, M. Westerman

**SESSION 18 MOLECULAR SYSTEMATICS: BIRDS**

**1:15-3:00 RM:G1100**

- Chair: John Bates
- 129 1:15 Doubt about the darters: spectral analysis suggests that increased taxa sampling may not always aid phylogenetic estimation  
M. Kennedy†
- 130 1:30 Molecular systematics and evolution of the honeyeaters (Passeriformes, Meliphagidae)  
A.C. Driskell†
- 131 1:45 Whole mt genomes and an ancient origin for the perching birds (Passeriformes)  
\*D.P. Mindell, J. Garcia-Moreno
- 132 2:00 Species concepts and the historical biogeography of the African forest avifauna  
P. Beresford†
- 133 2:15 DNA sequence of the mitochondrial control region and the phylogeny of cranes  
\*M.G. Fain†, C. Krajewski
- 134 2:30 Loon (Gaviidae) phylogenetics: molecules, morphology and vocalizations  
\*A.R. Lindsay†, D.P. Mindell
- 135 2:45 Molecular, vocal, and morphological differentiation in the white-flanked antwren (*Myrmotherula axillaris*)  
\*J.M. Bates, S. J. Hackett, M.L. Isler, P.R. Isler, J. Hunt

**SESSION 19 MATING/BREEDING SYSTEMS: PLANTS**

**1:15-3:00 RM:SHSA**

- Chair: Sarah Eppley
- 136 1:15 Gender-specific selection in a plant species exhibiting spatial segregation of the sexes.  
S. M. Eppley
- 137 1:30 Variation in functional gender of an annual plant, *Raphanus raphanistrum*, under environmental stress  
T.E. Hickox
- 138 1:45 Selection for mixed mating? - field studies with *Collinsia verna*  
\*S. Kalisz, D. Vogler
- 139 2:00 Intra-tetrad selfing and the evolution of linkage relationships  
\*M. Heuhsen, J. Antonovics
- 140 2:15 Evolutionary consequences of floral display size in a self-compatible plant  
\*J.D. Karron, R.J. Mitchell
- 141 2:30 Self-incompatibility in *Ipomopsis tenuifolia* (Polemoniaceae)  
T. LaDoux
- 142 2:45 Sex ratio evolution with nuclear-cytoplasmic sex inheritance in the gynodioecious annual plant *Nemophila menziesii*  
C.M. Barr

**SESSION 20 ARTIFICIAL SELECTION/EXPERIMENTAL**

**1:15-3:00 RM:MUPC**

**EVOLUTION: PLANTS AND ANIMALS**

Chair: Mark Fellowes

- 143 1:15 Trade-offs and genetics of host resistance to parasitoid attack  
M.D.E. Fellowes
- 144 1:30 The dynamics of genetic constraints in Arabidopsis: a manipulative approach using induced mutations and artificial selection  
M. Camara

- 145 1:45 Multispecies communities as evolvable units: artificial selection of soil communities for their effect on aboveground biomass of *Arabidopsis thaliana*  
D.S. Wilson, \*W. Swenson
- 146 2:00 Response to pollinator-mediated selection on *Nicotiana* floral traits  
\*A. Ippolito, T.P. Holtsford
- 147 2:15 Variation of quasispecies cloud size in Sindbis-like plant viruses  
\*W.L. Schneider, M.J. Roossinck
- 148 2:30 Experimental evolution of bacteriophage S13 to high temperature in two hosts  
\*L.A. Scott, C.D. Yarber, H.A. Wichman
- 149 2:45 Fisherian selection in experimental populations of *Arabidopsis thaliana*  
\*M.C. Ungerer, C.R. Linder, L.H. Rieseberg

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**SYPOSIUM 2B ASN: SPECIES INTERACTIONS AND ADAPTIVE RADIATION**

3:30-5:15 RM:MUT

- Organizer: Dolph Schlüter
- 150 3:30 Constraints on adaptive radiation  
\*M. Travisano, P.B. Rainey
- 151 4:00 Evolutionary branching caused by different types of ecological interactions  
\*M. Doebeli, U. Dieckmann
- 152 4:30 Life history diversification in yucca moths: species interactions and the origins of cheaters  
\*O. Pellmyr, J. Leebens-Mack

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**SESSION 21 COMBINED-DATA SYSTEMATICS**

3:30-5:15 RM:G2080

- Chair: Maureen O'Leary
- 153 3:30 Total evidence analyses that include fossils: using resampling techniques to test the effects of missing molecular data on tree topology  
\*M.A. O'Leary, A. Johnson
- 154 3:45 The phylogeny of the Arachnid order Opiliones: a combined analysis (18S rDNA, 28S rDNA and morphology) using direct optimization  
\*G. Giribet, C. Babbitt, W.C. Wheeler
- 155 4:00 Phylogenetic relationships of calamoceratid (Trichoptera) genera: the evidence of molecules and morphology  
A.L. Prather†
- 156 4:15 Evolution and systematics of Holothuroidea (Echinodermata)  
\*A.M. Kerr†, J. Kim
- 157 4:30 Evolution of wasp mimicry structures in euchromine tiger moths (Arctiidae)  
R.B. Simmons†
- 158 4:45 A multi-locus phylogenetic approach to detect cryptic species and recombination in a genus of lichenized fungi  
\*S. Kroken†, J.W. Taylor
- 159 5:00 CANCELLATION

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**SESSION 22 HYBRIDIZATION AND HYBRID ZONES: PLANTS AND ANIMALS**

3:30-5:15 RM:H3650

- Chair: Christiane Biermann
- 160 3:30 The nature of racial differentiation in *Drosophila melanogaster*  
\*J. Alipaz†, T. Karr, C. Wu

- 161 3:45 Pollinator behavior and the evolution of Louisiana iris hybrid zones  
\*R.A. Wesselingh, M.L. Arnold
- 162 4:00 Pollinator-mediated selection in a Louisiana iris hybrid zone  
\*S.K. Emms, M.L. Arnold
- 163 4:15 Crossing boundaries: the role of individual behavior in animal hybridization  
P.M. Willis
- 164 4:30 The effects of fecundity, early survivorship, and growth rates on a crayfish hybrid zone in northern Wisconsin between *Orconectes rusticus* and *O. propinquus*  
\*W.L. Perry, J. L. Feder, D. M. Lodge
- 165 4:45 Variability in sperm-egg recognition in free-spawning sea urchins  
C. H. Biermann
- 166 5:00 Reproductive isolation in polyploids: gene silencing and patterns of hybrid survival in a highly selfing freshwater snail  
T. Staedler

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**SESSION 23 MATING/BREEDING SYSTEMS: PLANTS**

**3:30-5:15 RM: SHSA**

- Chair: Diana Wolf
- 167 3:30 Do plant populations purge their genetic load? Effects of population size and mating history on inbreeding depression  
\*D.L. Byers, D.M. Waller
- 168 3:45 Paternity studies in an androdioecious population of *Datisca glomerata*  
\*T. Nakazato, L.H. Rieseberg, D.E. Wolf
- 169 4:00 Association between floral traits and inbreeding depression in *Gilia achilleifolia*  
\*N. Takebayashi, L.F. Delph
- 170 4:15 Offspring quality in relation to excess flower production in *Pultanaea gunnii*  
M. Burd
- 171 4:30 Modifications to bee foraging by inflorescence architecture  
\*C.Y. Jordan, L.D. Harder
- 172 4:45 Genetics of sex determination in androdioecious and dioecious *Datisca*  
\*D.E. Wolf, L.H. Rieseberg
- 173 5:00 Escaping Baker's Rule: self-incompatibility in the Hawaiian silversword alliance  
\*E.A. Friar

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**SESSION 24 MOLECULAR EVOLUTION: GENOMES**

**3:30-5:15 RM:G1100**

- Chair: Laura F. Landweber
- 174 3:30 Evolution by molecular mimicry: spandrels of the RNA world  
L.F. Landweber
- 175 3:45 Adaptation and the genetic code  
\*S.J. Freeland, R.D. Knight, L.D. Hurst, L.F. Landweber
- 176 4:00 Similar, coordinated LINE and SINE activity in South American rodents  
\*T.A. Rinehart, R. Grahn, H. Wichman

- 177 4:15 Different techniques used to isolate LINE-1 elements produce biased datasets which affect inferred phylogenies  
\*R.A. Grahn, H.A. Wichman
- 178 4:30 Origin of new genes: the forces driving evolution of exon-intron structures of genes  
M. Long
- 179 4:45 The microsatellites of *E. coli*: dynamics and distributions of short repetitive DNAs in a non-pathogenic prokaryotic genome  
D. Metzgar, E. Thomas, \*C. Davis, D. Field, C. Wills
- 180 5:00 CANCELLATION

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**SESSION 25 MOLECULAR EVOLUTION**

**3:30-5:15 MUPC**

Chair: Dusan Kordis

- 181 3:30 RNA editing in slime molds: how many distinct histories for four forms of sequence change?  
\*T.L. Horton†, L.F. Landweber
- 182 3:45 Molecular evolution of spider dragline silk  
J. Gatesy
- 183 4:00 Molecular evolution of X-linked color vision genes in prosimians  
\*Y. Tan, W-H. Li
- 184 4:15 Loss of a histidyl tRNA synthetase homolog in evolution is correlated with lateral transfer of HisG  
\*J.P. Bond, C. Francklyn
- 185 4:30 Evolution of pharmacological activities in snake venom phospholipases A2  
\*D. Kordis, F. Gubensek
- 186 4:45 Duplication, rapid diversification and differential expression of toxin genes of the venomous gastropod *Conus*  
\*T.F. Duda, Jr., S.R. Palumbi
- 187 5:00 Binding site evolution in *Drosophila*  
\*C.M. Bergman†, M. Ludwig, M. Kreitman

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**SESSION 26 MOLECULAR SYSTEMATICS: MAMMALS**

**3:30-5:15 RM: G2120**

Chair: Ronald Adkins

- 188 3:30 DNA/DNA hybridization and murine evolution : some implications for phylogeny, biogeography and taxonomy  
\*P. Chevret, F. Catzeffis
- 189 3:45 A mitochondrial DNA phylogeny of kangaroo rats (*Dipodomys*:Rodentia)  
\*D.P. Pires†, G.S. Spicer
- 190 4:00 Higher-level molecular systematics of rodents  
\*R.M. Adkins, R.L. Honeycutt
- 191 4:15 Taxon sampling and monophyly: artiodactyls and whales as a test case  
J. M. Theodor
- 192 4:30 Molecular-genetic characterization of leopard subspecies (*Panthera pardus*)  
\* O.V. Uphyrkina, S.J. O'Brien
- 193 4:45 Application of universal mammalian sequence-tagged sites to the phylogenetic analysis of otters (Carnivora: Mustelidae)  
\*K.-P. Koepfli†, R. K. Wayne

- 194 5:00 Phylogeography of baboons (*Papio hamadryas*) based on mtDNA sequence variation  
\*T.K. Newman, J. Roger

SESSION 27 DEVELOPMENTAL EVOLUTIONARY BIOLOGY			3:30-5:15 RM:MUTC
Chair: Damhnait McHugh			
195	3:30	Evolution of larval development modes in a group of polychaete annelids inferred from phylogenetic analysis of two protein-coding genes *D. McHugh, J.M. Hay	
196	3:45	Evolutionary constraints and the development of wing patterns in the butterfly <i>Bicyclus anynana</i> *P. do O Beldade, P.M. Brakefield	
197	4:00	Testing hypotheses of genotype-phenotype map organization *J.G. Mezey, J. Kim, G.P. Wagner	
198	4:15	<i>Drosophila</i> melanin synthesis genes as candidates in pattern evolution. *J.R. True, S.B. Carroll	
199	4:30	The evolutionary and developmental genetic basis of wing polymorphism in ants *E. Abouheif and G.A. Wray	
200	4:45	Phylogeny, ontogeny, and heterochrony in Ceratophryine frogs E. R. Wild	
201	5:00	The evolution of wing patterns in the butterfly genus <i>Bicyclus</i> A. Monteiro	

**7:00-9:00 POSTER PRESENTATIONS (LISTED SEPARATELY: #700-808)**

**MEMORIAL UNION**

### Thursday, 24 June

SYMPOSIUM 3A SSB: THE EVOLUTIONARY BIOLOGY OF PROKARYOTES			8:00-10:00 RM:MUT
Organizers: Matthew D. Kane and James R. Brown			
202	8:00	Introduction and significance R. Colwell (Director, National Science Foundation)	
203	8:30	Prokaryotic view of the universal tree of life J.R. Brown	
204	9:00	A genome-based perspective of prokaryotic evolutionary history H.-P. Klenk	
205	9:30	Diversity and environmental distribution of microbes N.R. Pace	
SESSION 28 POPULATION AND ECOLOGICAL GENETICS			8:30-10:00 RM:MUTC
Chair: Dina Fonseca			
206	8:30	The efficacy of detecting environmental gradients in multilocus data: a simulation study R.J. Dyer	
207	8:45	Diet, stress, and adaptation at MpI in the northern acorn barnacle P. Schmidt	
208	9:00	Avian malaria vectors in Hawaii: population genetics of an introduced pest *D.M. Fonseca, D. LaPointe, R.C. Fleischer	

- 209 9:15 The population genetics of colonizing populations of the plant *Myrica cerifera*  
\*D.L. Erickson, J.L. Hamrick
- 210 9:30 Genetic and physiological comparisons of polyploidy in diverse species of alfalfa  
\*K.Y. Niehaus, R.B. Hunter, K.L. Hunter
- 211 9:45 Sky island-hopping: patterns of population genetic differentiation in a montane grasshopper  
\*L.L. Knowles, D.J. Futuyma

**SESSION 29 MOLECULAR EVOLUTION****8:30-10:00 RM:G1100**

Chair: Brian Bettencourt

- 212 8:30 Positive Darwinian selection in the evolution of a neural isozyme  
\*T.J.S. Merritt, J.M. Quattro
- 213 8:45 Natural variation and response to selection at *Drosophila* hsp70 loci  
\*B.R. Bettencourt, J.A. Maresca, M.E. Feder
- 214 9:00 Comparative molecular genetics of antibody selection on HIV-1  
\*J. da Silva, A.L. Hughes
- 215 9:15 Detecting events of positive selection using protein-coding DNA sequences  
\*K.A. Dyer†, J.P. Huelsenbeck
- 216 9:30 A comparative analysis of codon usage bias in land plants  
J.T. Herbeck, \*D.P. Wall†
- 217 9:45 Strand asymmetry and codon usage bias in plastid genomes  
B.R. Morton

**SESSION 30 MATING/BREEDING SYSTEMS: PLANTS****8:30-10:00 RM:MUPC**

Chair: Elizabeth Elle

- 218 8:30 How should we measure inbreeding depression?  
D.M. Waller
- 219 8:45 Herbivory, H<sub>2</sub>O, and herkogamy: environmental effects on outcrossing rate in *Datura wrightii*  
\*E. Elle, J. D. Hare
- 220 9:00 Whole-genome evaluation of embryonic stage inbreeding depression in a selfed loblolly pine family  
\*D.L. Remington, D.M. O'Malley
- 221 9:15 The role of floral design in pollen dispersal by tristylos *Pontederia cordata*  
\*L.D. Harder, S.C.H. Barrett, B.E. Kendall
- 222 9:30 The bigger, the better: pollen size and post-pollination competitive ability  
\*T.S. Sarkissian, L.D. Harder
- 223 9:45 Performance of a prairie mating system in fragmented habitat: self-incompatibility and limited pollen dispersal  
hinder *Echinacea angustifolia*  
S. Wagenius

**SESSION 31 POPULATION GENETICS****8:30-10:00 RM: SHSA**

Chair: Hopi Hoekstra

- 224 8:30 Maintenance of XY females: the role of mutation, selection and meiotic drive.  
\*H.E. Hoekstra, J.M. Hoekstra
- 225 8:45 Founder effects and human influences on introduced African honeybees  
\*M.R. Palmer, M.E. Orive, O.R. Taylor, D.R. Smith

- 226 9:00 On the analyses of mutation-accumulation experiments by methods of moments and maximum likelihood  
\*H-W. Deng, J.-Li, J-L. Li, W-M. Chen, Y. Zhou
- 227 9:15 Sex-limited mutations and the evolution of sexual dimorphism  
T. Rhen
- 228 9:30 Genetic differentiation in marine organisms: the effects of larval behavior and habitat structure on population subdivision in blennioid fishes  
\*C. Riginos, M.W. Nachman
- 229 9:45 Sex ratio distortion in *Drosophila simulans/D. sechellia* introgression lines: simple or complex trait?  
\*E.T. Dermitzakis, J.P. Masly, A.G. Clark

**SESSION 32 MOLECULAR SYSTEMATICS: MAMMALS****8:30-10:00 RM:ED147**

- Chair: Mark Springer
- 230 8:30 A multigene analysis of dipodoid rodent relationships  
B.R. Stein, \*M.F. Smith
- 231 8:45 Upheavals in mammalian phylogenetics and the implications of molecular data for eutherian origins  
\*M. Springer, H. Amrine, M. Stanhope
- 232 9:00 The performance of mitochondrial versus nuclear genes in recovering deep level mammalian clades  
\*H. Amrine, R. DeBry, M. Stanhope, M. Springer
- 233 9:15 Kangaroo phylogenetics: evidence from mitochondrial and nuclear sequences  
\*A. Burk†, M. Springer
- 234 9:30 Molecular systematics of pikas inferred from mt DNA sequences  
\*N.Yu, C. Zheng, Y. Zhang
- 235 9:45 CANCELLATION

**SESSION 33 ANALYSIS OF LIFE HISTORIES AND SEXUAL SELECTION****8:30-10:00 RM:H3650**

- Chair: Stephen Stearns
- 236 8:30 The experimental evolution of life history traits in *Drosophila*  
S.C. Stearns
- 237 8:45 The relationship among genome size, development rate, and body size in copepods: evidence for the role of chromatin diminution  
\*G.A. Wyngaard, N.M. Rouse, E.C. Colliver, K. Gasser, R. Domangue, E.M. Rasch
- 238 9:00 Metabolic needs and home range size: a comparative test of Kleiber's Law in primates  
\*C.L. Nunn†, R.A. Barton
- 239 9:15 Male sexual harassment as a cost for sailfin molly females: bigger males cost less  
\*I. Schlupp, R. McKnab, M.J. Ryan
- 240 9:30 Evolutionary biology of multiple mating in *Tribolium castaneum*  
\*A. Pai, G. Yan

**SYMPOSIUM 3B SSB: THE EVOLUTIONARY BIOLOGY OF PROKARYOTES****10:30-12:00 RM:MUT**

- Organizers: Matthew D. Kane and James R. Brown
- 241 10:30 Phylogeny and environmental diversity of Archaea  
E.F. DeLong
- 242 11:00 The origins of bacterial species  
F.M. Cohan

- 243 11:30 Genome structure and inferences of bacterial speciation  
J.G. Lawrence

**SESSION 34 ARTIFICIAL SELECTION/EXPERIMENTAL EVOLUTION: MICE AND FLIES 10:30-12:00 RM: SHSA**

- Chair: Adam Chippindale
- 244 10:30 Gender and the genetics fitness in *Drosophila*  
\*A.K. Chippindale, J.R. Gibson, W.R. Rice
- 245 10:45 Artificial selection for increased voluntary wheel-running behavior in house mice  
\*T. Garland, Jr., J.G. Swallow, P.A. Carter, P. Koteja, J.S. Rhodes, I. Girard
- 246 11:00 Life history and maternal care in house mice artificially selected for high voluntary wheel-running behavior  
\*I. Girard, J.G. Swallow, P.A. Carter, P. Koteja, J.S. Rhodes, T. Garland, Jr.
- 247 11:15 Body temperatures of house mice artificially selected for high voluntary wheel-running behavior  
\*J.S. Rhodes, P. Koteja, J.G. Swallow, P.A. Carter, T. Garland, Jr.
- 248 11:30 Changing effects of early-age selection during post-natal ontogeny  
\*P.A. Carter, J.S. Swallow, T.J. Morgan, T. Garland, Jr.
- 249 11:45 CANCELLATION

**SESSION 35 POPULATION GENETICS: MOLECULAR EVOLUTION****10:30-12:00 RM:MUTC**

- Chair: Kathryn Goddard
- 250 10:30 Molecular signature of positive selection in regions of low recombination in *Drosophila*  
\*J.C. Fay, C-I. Wu
- 251 10:45 Nucleotide variability at the Notch locus in *Drosophila melanogaster*: inferences from a local reduction in variability.  
\*V.L. Bauer, J. Fay, C.F. Aquadro
- 252 11:00 Can their unique genetics explain observations of excess amino acid replacement mutations segregating in animal mtDNA?  
\*D.M. Weinreich
- 253 11:15 Heterogeneity in nucleotide variation among introns suggests differences in natural selection among four genes in field crickets  
\*R.E. Broughton, R.G. Harrison
- 254 11:30 Population genetics of the Odysseus locus in *Drosophila simulans* clade  
\*C.-T. Ting, S. C. Tsaur, C.-I Wu
- 255 11:45 Restriction analysis and sequence analysis of cytochrome b in *Fundulus heteroclitus*, *Fundulus diaphanus* and their clonal hybrids  
\*D. Letting, B. Nath, R. Hopkins, B. Jahanbin, R. Dawley, K. Goddard

**SESSION 36 MEASURING SELECTION****10:30-12:00 RM:MUPC**

- Chair: Erik Svensson
- 256 10:30 Selection in natural populations of *Salmonella* in a variable thermal environment  
\*A.M. Bronikowski, A.F. Bennett, R.E. Lenski
- 257 10:45 Experimental excursions on adaptive landscapes: density-dependent selection on egg size  
\*E. Svensson, B. Sinervo
- 258 11:00 Selection on behavior: use of supplemental oxygen and death rates on Everest and K2  
\*R.B. Huey, X. Eguskitza

- 259 11:15 Rapid morphological change in Channel Islands deer mice  
\*O.R.W. Pergams†, M.V. Ashley
- 260 11:30 Advances in measuring natural selection: path analysis, nonlinear selection coefficients, and phenotypic plasticity  
\*S.M. Scheiner, H.S. Callahan, R.J. Mitchell
- 261 11:45 Phenotypic selection on life history timing in *Psilocorsis quercicella* (Lepidoptera: Oecophoridae)  
J. T. Lill

**SESSION 37 POPULATION GENETICS: GEOGRAPHIC VARIATION****10:30-12:00 RM:H3650**

Chair: Bonnie Bowen

- 262 10:30 Microsatellite analysis of genetic structure in a highly social bird, the Mexican Jay  
B.S. Bowen
- 263 10:45 Analysis of genetic diversity in geographically structured populations: a Bayesian approach  
K. Holsinger
- 264 11:00 Investigation of genetic variation in the clonal orchid *Tipularia discolor*  
\*J.L. Smith, R.B. Hunter, K.L. Hunter
- 265 11:15 A non-equilibrium migration model applied to human history  
J. Wakeley
- 266 11:30 Microsatellite- and allozyme-based estimates of gene flow among island and mainland garter snake populations.  
\*T.D. Bittner, R.B. King

**SESSION 38 MOLECULAR SYSTEMATICS: FISH****10:30-12:00 RM:ED147**

Chair: Guillermo Orti

- 267 10:30 Are cartilaginous fishes in a derived position in the piscine tree?  
\*G. Orti, J.A. Ryburn, J.A. Lopez, O. Fedrigo, G.J.P. Naylor
- 268 10:45 Molecular systematics and zoogeography of the subgenus *Sebastomus* (Sebastes, Scorpaenidae)  
\*A. Rocha-Olivares†, R.H. Rosenblatt, R.D. Vetter
- 269 11:00 A molecular phylogenetic examination of the perplexing echeneoid intrarelationships (Perciformes: Coryphaenidae, Rachycentridae, and Echeneidae)  
\*M.D. Tringali†, T.M. Bert
- 270 11:15 Phylogeny and evolution of the Gobiid genus *Coryphopterus*: molecules, morphology and reproduction  
\*C.E. Thacker and K.S. Cole
- 271 11:30 Systematics, behavior and coloration of *Limia*: evaluating the role of female choice in the evolution of secondary sexual characteristics  
A.T. Hamilton
- 272 11:45 CANCELLATION

**SESSION 39 ECOLOGICAL GENETICS****10:30-12:00 RM:G1100**

Chair: Richard Gomulkiewicz

- 273 10:30 Probabilistic aspects of local adaptation and niche evolution in sink environments  
\*R. Gomulkiewicz, R.D. Holt, M. Barfield

- 274 10:45 Variability of microsatellite loci in populations of *Apodemus (Sylvaemus) flavicollis* in Chernobyl and Western Ukraine  
\*T.K. Oleksy, T.C. Glenn
- 275 11:00 Ecological genetics of an exotic invasive: variation across latitude  
J.P. Sexton, A.S. Sala, \*J.K. McKay
- 276 11:15 Estimates of reproductive success of lizards, *Sceloporus undulatus*, in a natural population using DNA fingerprinting  
\*G.J. Haenel, H. John-Alder, L. Seitz
- 277 11:30 Genetic diversity in the freshwater snail *Lymnaea ovata*: a role for parasites?  
\*J. Wiehn, J. Jokela, P. Mutikainen
- 278 11:45 The genetics of *Drosophila sechellia*'s adaptation to its host  
C.D. Jones

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**SYMPOSIUM 4A SSB: MOLECULAR SYSTEMATICS AND  
PROTEIN STRUCTURE IN THE POST-GENOMIC WORLD**

**1:15-3:00 RM:MUT**

- Organizers: Nick Goldman and David Pollock
- 279 1:15 Introduction  
N. Goldman
- 280 1:30 Protein structure and protein sequences: studying the relationship between phenotype and genotype at the molecular level  
J. Thorne
- 281 2:00 Co-evolving protein residues: maximum-likelihood identification and relationship to structure  
D. Pollock
- 282 2:30 Incorporation of phylogenetic analysis in reconstructing the protein phenotype  
W. Taylor

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**SESSION 40 ANALYSIS OF LIFE HISTORIES**

**1:15-3:00 RM:G2080**

- Chair: David Lytle
- 283 1:15 Disturbance predictability and life history evolution: how caddisflies avoid flash floods  
D.A. Lytle
- 284 1:30 Predator life history traits under different prey densities: a mechanism for coexistence?  
\*S. Magalhaes, F.M. Bakker, M.W. Sabelis
- 285 1:45 Costs and interactions of defenses in snails  
\*M.C. Rigby, J. Jokela
- 286 2:00 Colonies that don't communicate: the evolution of localized allorecognition in botryllid ascidians  
S. Cohen
- 287 2:15 Effects of *Wolbachia* infection on sperm production  
\*R.R. Snook, D. Tetin, T.L. Karr
- 288 2:30 Environmental conditions favoring matrotrophy in fishes  
\*J.C. Trexler, D. DeAngelis
- 289 2:45 Age-specificity of novel mutations for male mating ability  
\*P.D. Mack, D.E.L. Promislow

<b>SESSION 41 CONSERVATION GENETICS</b>			<b>1:15-3:00 RM:MUPC</b>
Chair: Oliver Pergams			
290	1:15	Conservation and management of Anacapa Island deer mice *O.R.W. Pergams, M.V. Ashley	
291	1:30	Phylogenetic relationships and divergence times among squirrel monkeys *S. Cropp, S. Boinski, W.-H. Li	
292	1:45	Conservation genetics of California gnatcatchers (Aves) *G.F.Barrowclough, R.M.Zink	
293	2:00	Conservation genetics of sandhill cranes: subspecies or clinal variation? *J.M. Rhymer, M.G. Fain, C. Krajewski	
294	2:15	Population structure of a Neotropical migrant, wilson's warbler ( <i>Wilsonia pusilla</i> ) *M. Kimura, D.J. Girman, T.B. Smith	
295	2:30	Mitochondrial sequence variation among vocal dialects of the yellow-naped amazon *T.F. Wright, G.S. Wilkinson	
296	2:45	Analysis of diversity in the endangered rock iguana ( <i>Cyclura</i> ) using microsatellites *C. Malone†, S. Davis	
<b>SESSION 42 SPECIES INTERACTIONS</b>			<b>1:15-3:00 RM:G1100</b>
Chair: Louise Mead			
297	1:15	Sex, salamanders, and speciation: variation in allozymes, mtDNA, and behavior across a salamander hybrid zone *L.S. Mead, S.G. Tilley, L.A. Katz	
298	1:30	Frequency-dependent reproductive success and the persistence of gynogens L.A. Dries	
299	1:45	Ecomorphology of a guild of rhinolophoid bats from Malaysia - evidence for competitive structuring. *T. Kingston, G. Jones, A. Zubaid, T. H. Kunz	
300	2:00	Fitness costs of surviving parasitism A.Hoang	
301	2:15	Do "cryptic" species of the <i>Bacillus subtilis</i> complex fill different niches or do they compete? *M. Feldgarden, F.M. Cohan	
302	2:30	Geographic patterns of genetic variation and homology of wild bacteriophage of <i>Bacillus</i> from the desert southwest *G.P. Krukonis, F.M. Cohan	
303	2:45	A generalized randomization model for the analysis of cross-species data *F.-J. Lapointe, T. Garland	
<b>SESSION 43 SEXUAL SELECTION</b>			<b>1:15-3:00 RM:H1111</b>
Chair: Susan Masta			
304	1:15	The evolution of olfactory signals for courtship display in male <i>Saccopteryx bilineata</i> (Chiroptera) C.C. Voigt	
305	1:30	Microsatellite-based parentage assessment in captive sex-role-reversed pipefish: effects of the operational sex ratio and mate quality on <i>Syngnathus typhle</i> mating behavior *A.G. Jones, G. Rosenqvist, A. Berglund, J.C. Avise	

- 306 1:45 Measuring sexual selection using Bateman curves in a courtship feeding katydid, *Conocephalus nigropleurum*: sexual conflict over mating frequency?  
\*P.D. Lorch, L.F. Bussière, D.T. Gwynne
- 307 2:00 Individual movement and sexual conflict in water striders: a patch dynamics perspective  
\*R.E. Ziemba, P.H. Crowley, A. Sih
- 308 2:15 Pre-existing male traits and the evolution of elaborated male displays  
G. Borgia
- 309 2:30 Quantitative trait loci mapping of an exaggerated trait: eye span in stalk-eyed flies  
\*L.L. Wolfenbarger, G.S. Wilkinson
- 310 2:45 Sexual selection driving diversification in jumping spiders  
\*S. Masta, W. Maddison

**SESSION 44 ECOLOGICAL GENETICS****1:15-3:00 RM:MUTC**

Chair: Steven Kelley

- 311 1:15 Insecticide resistance: a paradigm for ecological genetics studies  
T. Lenormand
- 312 1:30 Patterns of virulence in a plant virus with different transmission modes  
S.E. Kelley
- 313 1:45 Short-term evolution of plant virus with differing modes of transmission  
\*A.D. Stewart, S.E. Kelley
- 314 2:00 Costs and benefits in the Systemic Acquired Resistance (SAR) pathway  
\*A. Heidel, J. Clarke, X. Dong, J. Antonovics
- 315 2:15 The evolution of induced defense and induced resistance in *Brassica rapa*  
\*K.A. Stowe, E.L. Simms
- 316 2:30 Microsatellite analysis of warfarin resistant Norway rats  
M.H. Kohn
- 317 2:45 CANCELLATION

**SESSION 45 MOLECULAR SYSTEMATICS: ARTHROPODS****1:15-3:00 RM:H3650**

Chair: Trisha Spears

- 318 1:15 Molecular phylogeny of freshwater crabs  
T. Spears
- 319 1:30 So many crabs! Mitochondrial gene rearrangements clarify higher-level anomuran phylogeny  
\*C.L. Morrison, C.W. Cunningham
- 320 1:45 Molecular evolution and the Isthmus of Panama - divergence at mitochondrial and nuclear genes in snapping shrimp  
\*S.T. Williams, N. Knowlton
- 321 2:00 Molecular phylogeny of Lake Baikal amphipods  
\*K.S. Macdonald†, J.E. Duffy, L.Y. Yampolsky
- 322 2:15 Has host-switching been common or rare in specialist bees? A molecular phylogenetic analysis of *Diadasia* (Hymenoptera: Apidae)  
\*S.D. Sipes, P.G. Wolf, V.J. Tepedino

- 323 2:30 Origin of New Zealand cicadas, how did they get there?  
 \*P. Arensburger, T. Buckley, C. Simon
- 324 2:45 Molecular systematics of Encarsia (Hymenoptera: Aphelinidae)  
 \*C.S. Babcock, J.M. Heraty

**SESSION 46 POPULATION GENETICS AND FLUCTUATING ASSYMETRY****1:15-3:00 RM: SHSA**

- Chair: Sally Otto
- 325 1:15 Shifting balance in continuously distributed populations: the merger of phases 2 and 3  
 J.S. Heywood
- 326 1:30 Two steps forward and one step back: the evolutionary effects of pleiotropy  
 S.P. Otto
- 327 1:45 Consequences of population subdivision under self-incompatibility and other systems of strong balancing selection  
 \*C.A. Muirhead, M. Slatkin
- 328 2:00 Inferring the evolutionary history of disease haplotypes  
 S.K. McWeeney
- 329 2:15 Probability of identity by descent in metapopulations  
 I. Kaj, \*M. Lascoux
- 330 2:30 Metabolic control theory and developmental stability in novel environments  
 \*M.A. VanderMeulen, S.J. Tonsor
- 331 2:45 Developmental integration of fluctuating asymmetry in fly wings  
 \*C.P. Klingenberg, S.D. Zaklan

**SYMPOSIUM 4B SSB: MOLECULAR SYSTEMATICS AND PROTEIN STRUCTURE IN THE POST-GENOMIC WORLD****3:30-5:00 RM:MUT**

- Organizers: Nick Goldman and David Pollock
- 332 3:30 Mapping Evolutionary change onto protein structure: understanding evolutionary freedom to vary, and its consequences for the accuracy of phylogenetic analysis  
 G. Naylor
- 333 4:00 Modeling protein evolution at the codon level: relating selection parameters to substitution rates  
 W. Bruno
- 334 4:30 Physical-chemistry based evolutionary models in phylogenetic reconstruction  
 R. Goldstein

**SESSION 47 ARTIFICIAL SELECTION/EXPERIMENTAL EVOLUTION****3:30-5:00 RM:G2080**

- Chair: James Cheverud
- 335 3:30 Reversibility in the experimental evolution of *Drosophila melanogaster*  
 \*H. Teotonio, M.R. Rose
- 336 3:45 Antagonistic pleiotropy versus mutation accumulation: what drives specialization in laboratory bacterial populations?  
 \*V.S. Cooper, R.E. Lenski
- 337 4:00 Adaptation of diverse strains of *E. coli* in a common environment: how does phylogenetic history affect genetic potential?  
 \*F.B.G. Moore, R. E. Lenski

- 338 4:15 Epistasis and the evolution of additive genetic variance in bottleneck populations  
\*J. M. Cheverud, T. T. Vaughn, L. S. Pletscher
- 339 4:30 Effects of predation on polymorphism in cryptic prey: the virtual ecology approach  
\*A.B. Bond, A.C. Kamil
- 340 4:45 Direct and correlated responses to artificial selection on acute thermal stress tolerance in a livebearing fish  
\*C.F. Baer, J. Travis

**SESSION 48 SEXUAL SELECTION****3:30-5:00 RM:MUPC**

- Chair: Richard Prum
- 341 3:30 Male tree crickets adjust courtship gift size in relation to the abundance of receptive females  
\*L.F. Bussière, V. Ramlogan
- 342 3:45 Sexual selection in blue grosbeaks: separating male-male competition from female choice  
\*A.J. Keyser, G.E. Hill, B.E. Ballentine
- 343 4:00 The evolution of lek mating systems by female preference  
S. Williamson, R. Gomulkiewicz, and R.O. Prum
- 344 4:15 Evolution of nanostructured color producing avian tissues by intersexual selection  
R.O. Prum
- 345 4:30 Evolution of courtship displays in chaenopsid blennies  
P.A. Hastings
- 346 4:45 CANCELLATION

**SESSION 49 BIOGEOGRAPHY/GEOGRAPHIC VARIATION: MAMMALS****3:30-5:00 RM:G1100**

- Chair: Luis Ruedas
- 347 3:30 Evolution and phylogeography of African forest elephants (*Loxodonta africana cyclotis*)  
\*L.S. Eggert†, D.S. Woodruff
- 348 3:45 Pairwise and multipopulation estimation of migration rates and human mtDNA  
P. Beerli
- 349 4:00 Biogeographical implications of a robust gibbon phylogeny constructed by combining and not combining 5 genetic datasets.  
\*S. M. Zehr, A. Mootnick, M. Ruvolo
- 350 4:15 Ecomorphological niche partitioning, genetic variation, and evolution in *Rousettus amplexicaudatus* and *R. celebensis* (MAMMALIA: Chiroptera: Pteropodidae) from the island of Sulawesi (Indonesia)  
\*L.A. Ruedas, J.C. Morales
- 351 4:30 Characterizing a region of contact between two lineages: marten of the Pacific Northwest.  
\*K.D. Stone, J.A. Cook
- 352 4:45 Pocket gophers in the Felsenstein Zone? Phylogenetic evidence for extinction and recolonization of *Thomomys mazama* in the Pacific Northwest  
E.K. Steinberg†

**SESSION 50 QUANTITATIVE TRAIT LOCI****3:30-5:00 RM: SHSA**

- Chair: Chen-Hung Kao
- 353 3:30 Metabolism as a complex trait in *Drosophila*  
\*K.L. Montooth, J.H. Marden, A.G. Clark
- 354 3:45 Multiple interval mapping for quantitative trait loci  
\*C.-H. Kao, Z.-B. Zeng, R. D. Teasdale

- 355 4:00 Epistatic and environmental interactions of QTL involved in maize evolution: morphological and molecular evidence.  
\*L. Lukens and J. Doebley
- 356 4:15 Quantitative trait loci for upper thermal tolerance in rainbow trout, *Oncorhynchus mykiss*  
\*G.M.L. Perry, T. Sakamoto, M.M. Ferguson, R.G. Danzmann
- 357 4:30 Measuring the effects of epistasis using QTLs during population bottlenecks  
\*T.T. Vaughn, J.M. Cheverud

**SESSION 51 SYSTEMATICS: METHODS****3:30-5:00 RM:H3650**

- Chair: Diana Lipscomb
- 358 3:30 New insights into optimality criteria for large-scale phylogeny inference  
\*K. Takahashi, S. Kumar, M. Nei
- 359 3:45 Analysis of large datasets: comparing the ratchet to parsimony jackknifing  
\*D. Lipscomb
- 360 4:00 Phylogenetic analysis of large datasets: evaluation and feasibility using simulated and real molecular data for angiosperms  
\*V. Savolainen, M. W. Chase, N. Salamin, D. E. Soltis, P. S. Soltis
- 361 4:15 Estimating phylogenies from incomplete distance matrices: a comparison of direct and indirect methods  
C. Levasseur, \*F.-J. Lapointe, P.-A. Landry, V. Makarenkov
- 362 4:30 Models in phylogenetics: likelihood models for discrete morphological characters  
P.O. Lewis
- 363 4:45 Comparative performance of gamma and site-specific corrected general-time-reversible (GTR) likelihood models on simulated protein coding datasets  
\*J.P. Bollback, J.P. Huelsenbeck

**SESSION 52 POPULATION GENETICS: GEOGRAPHIC VARIATION****3:30-5:00 RM:MUTC**

- Chair: Avis James
- 364 3:30 Does lava flow prevent gene flow? Population structure of Hawaiian *Tetragnatha* spiders  
\*A.G. Vandergast, R.G. Gillespie, G.K. Roderick
- 365 3:45 Genetic variation in populations of the yellow violet (*Viola pubescens*), a species with chasmogamous and cleistogamous flowers  
\*T.M. Culley, A.D. Wolfe
- 366 4:00 Spatial genetic structure in populations of two species of small mammals  
\*D.L. Rabosky, G. E. Svendsen, M. M. White
- 367 4:15 Genetic variation, frequency-dependent selection and parasites: surveys of fish and birds  
\*H.G. Spencer, L.J. Marshall, R. Poulin
- 368 4:30 Molecular genetic markers discriminate breeding sites of origin for admixed wintering populations of migratory waterfowl  
\*K.T. Scribner, J.M. Pearce, B.J. Pierson, S.L. Talbot
- 369 4:45 Population dynamics of *Wolbachia* infestations in *Drosophila* species  
\*A.C. James, J.W.O. Ballard

**7:00-9:00 POSTER PRESENTATIONS (LISTED SEPARATELY:#809-916)****MEMORIAL UNION**

**Friday, 25 June****SYMPOSIUM 5A SSE: WHAT ABOUT MOLECULAR CLOCKS?****8:00-9:45 RM:MUT**

Organizer: Tomoko Steen

Chairs: Tomoko Steen and William Provine

- 370 8:00 Introduction  
T. Steen

- 371 8:15 Are molecular clocks a key to the neutral theory?  
A. Eyre-Walker

- 372 8:30 Near neutrality and the molecular clock  
T. Ohta

- 373 8:45 Testing molecular clocks within and between species: how rare is adaptive protein evolution?  
H. Akashi

- 374 9:00 Molecular clocks in vertebrates?  
W.-H. Li

- 375 9:15 Practical clocks: issues of genes, organisms and ages  
C. O'Huigin

9:30-9:45 Panel discussion

**SESSION 53 BIOGEOGRAPHY/GEOGRAPHIC VARIATION: INSECTS****8:00-10:00 RM:MUTC**

Chair: Rosemary Smith

- 376 8:00 Predicting patterns of invasion: lessons from Argentine ants  
\*A.V. Suarez, D.A. Holway, T.J. Case

- 377 8:15 Altitudinal variation in body size and reproductive behavior in a burying beetle (*Nicrophorus*)  
R.J. Smith

- 378 8:30 Life history variations in wild populations of *Drosophila melanogaster* along a latitudinal cline  
\*L.M. Matzkin, B. Verrelli, W.F. Eanes

- 379 8:45 Male and female body size clines in New World and Old World *Drosophila subobscura*  
\*G.W. Gilchrist, R.B. Huey, D. Berrigan, M. Carlson

- 380 9:00 Clines revisited: examining geographic variation in *Drosophila melanogaster* metabolic enzymes at the nucleotide level  
\*B.C. Verrelli, W.F. Eanes

- 381 9:15 What can geographic variation in calling song reveal about species interactions between the field crickets?  
L.A. Higgins

- 382 9:30 Oviposition preference in a generalist butterfly: evidence for local differentiation  
\*A.L. Seidl, A.K. Brody

- 383 9:45 CANCELLATION

**SESSION 54 COEVOLUTION****8:00-10:00 RM:H3650**

Chair: Kevin Johnson

- 384 8:00 The relationship between host specificity and cospeciation in dove lice  
\*K.P. Johnson, D.H. Clayton

- 385 8:15 Parasite mediated natural selection in a *Daphnia*-microparasite system  
T.J. Little
- 386 8:30 Molecular studies of co-phylogeny: microbes, insects, and mammals  
\*D.L. Reed†, M.S. Hafner
- 387 8:45 Have lice cospeciated with their hosts?  
V.S. Smith†
- 388 9:00 The evolutionary genetics of extinction  
C. Webb
- 389 9:15 Preliminary evidence of snake-newt coevolution: TTX toxicity in newts  
\*C.T. Hanifin, E.D. Brodie III, E.D. Brodie Jr.
- 390 9:30 The coevolution of competing foraging strategies  
\*S.A. Richards, W.G. Wilson, R.M. Nisbet
- 391 9:45 Gene flow and geographically structured coevolution  
\*S.L. Nuismer, J.N. Thompson, R. Gomulkiewicz

**SESSION 55 MOLECULAR SYSTEMATICS: ARTHROPODS****8:00-10:00 RM:S180**

- Chair: Richard Kliman
- 392 8:00 History of a mutualism in sap-feeding insects (Sternorrhyncha): the rapidly evolving eubacterial endosymbionts of psyllids and whiteflies  
\*A.W. Spaulding†, C.D. von Dohlen
- 393 8:15 Resolving arthropod phylogeny using multiple nuclear genes  
\*J.C. Regier, J.W. Shultz
- 394 8:30 Evolution of haplodiploidy in dermanyssine mites (Acari: Mesostigmata)  
\*R.H. Cruickshank
- 395 8:45 Phylogenetic relationships of lower Diptera: evidence from molecules and morphology  
\*V.L. Kulasekera, R. DeSalle
- 396 9:00 Addressing the "gene tree/species tree" problem in the *Drosophila simulans* complex  
\*R.M. Kliman, J. Hey
- 397 9:15 History of the *Synalpheus* dynasty: a phylogenetic analysis of social evolution in sponge-dwelling shrimps  
\*J.E. Duffy, C.L. Morrison, R. Rios
- 398 9:30 Phylogenetic analysis and comparative life history variation in Australian drywood termites  
\*G.J. Thompson, R.H. Crozier
- 399 9:45 CANCELLATION

**SESSION 56 SEXUAL SELECTION****8:00-10:00 RM:MUPC**

- Chair: John Swaddle
- 400 8:00 Sperm competitive success in *Drosophila*: the fate of sperm inside the female's storage organs.  
A. Civetta
- 401 8:15 Developmental isolation and subsequent adult behavior of *Drosophila paulistorum*: VI. Quantitative variation in cuticular hydrocarbons  
\*Y.-K. Kim, T. Chao, L. Ehrman

- 402 8:30 Theoretical investigations of female mate choice in populations with lethal parasites  
\*A. C. Fiumera, M. A. Asmussen
- 403 8:45 Rapid evolution of male reproductive genes in the descent of man  
\*G.J. Wyckoff, W. Wang, C.-I Wu
- 404 9:00 Receiver biases are shared between the sexes....sometimes  
A.L. Basolo
- 405 9:15 Perceptual mechanisms and selection against asymmetry  
J. P. Swaddle
- 406 9:30 Females that mate more live longer  
\*W.E. Wagner Jr, K.R. Tucker, R. Kelly, C.J. Harper

**SESSION 57 MOLECULAR SYSTEMATICS: PLANTS****8:00-10:00 RM:G1100**

Chair: Elena Conti

- 407 8:00 Phylogenetic utility of nuclear Adh loci for inferring relationships in *Carex* section *Acrocystis* (Cyperaceae)  
E.H. Roalson†
- 408 8:15 Homoplastic involucral bract morphology and diversification in Eriogonoideae (Polygonaceae)  
\*R.P. Pant†, J.M. Porter
- 409 8:30 Evolution in Espeletia: insights from outgroups, hybrids and nested gene trees  
J.T. Rauscher†
- 410 8:45 Phylogenetics near the limit of sequence alignment: an example from Malvaceae using ITS  
\*R. Nyffeler, D.A. Baum
- 411 9:00 Molecular phylogenetic analysis of an allotetraploid genus in the wheat tribe, Triticeae  
\*R.J. Mason-Gamer
- 412 9:15 Molecular systematics of wild and domesticated species of *Cucurbita* (Cucurbitaceae)  
\*O.I.Sanjur†
- 413 9:30 Evolution of unisexuality in *Bouteloua* (Poaceae: Chloridoideae)  
\*M.S. Kinney, E.A. Friar, J.T. Columbus
- 414 9:45 Phylogenetic relationships of *Saxifraga* sect. *Ligulatae* Haworth: implications for the evolution of life histories and substrate specificity  
\*E. Conti, D. Soltis, M. Hardig, J. Schneider

**SESSION 58 ANALYSIS OF LIFE HISTORIES: SENESCENCE AND TRADE OFFS****8:00-10:00 RM: SHSA**

Chair: Deborah Roach

- 415 8:00 An empirical perspective on senescence combining mortality and fecundity  
J.L. Dudycha
- 416 8:15 Negligible senescence during reproductive diapause in *Drosophila melanogaster*  
\*S.A. Chien, N.K. Priest, M. Tatar
- 417 8:30 The demographic consequences of phenotypic variation in rates of senescence  
P.M. Service
- 418 8:45 Demography of aging in a natural plant population  
D.A. Roach

- 419 9:00 Testing life history trade offs using comparative field experiments: an example with birds  
\*C.K. Ghalambor, T.E. Martin
- 420 9:15 Higher ectoparasite loads on birds with specialized bills: a tradeoff between feeding and preening defense?  
\*D.H. Clayton, B.R. Moyer
- 421 9:30 Countergradient variation and the evolution of growth rate in fishes: trade-offs in growth, consumption, and swimming performance  
\*J.M. Billerbeck, D.O. Conover
- 422 9:45 Modern theory of evolution  
L. Whicher

**SYMPOSIUM 5B SSE: WHAT ABOUT MOLECULAR CLOCKS?****10:00-12:00 RM:MUT**

- Organizer: Tomoko Steen  
Chairs: Tomoko Steen and William Provine
- 423 10:00 An erratic molecular clock: implications for phylogenetic inference  
R. Nielsen
- 424 10:15 More evidence of weak selection in *Drosophila*: evidence against the neutral molecular clock  
M. Kreitman
- 425 10:45 Fisher and the molecular clock  
\*L. Chao, C. L. Burch
- 426 11:15 Calibration of divergence dates during the Cretaceous-Tertiary transition: conflicts between fossil-based and molecular-based estimates  
M. Novacek
- 11:45 Panel Discussion

**SESSION 59 BIOGEOGRAPHY: FISH****10:00-12:00 RM:H3650**

- Chair: Harilaos Lessios
- 427 10:30 Phylogeny and biogeography of the family Triacanthodidae (Tetraodontiformes, PISCES)  
F. Santini†
- 428 10:45 Mitochondrial DNA divergence of transpecific species across the "Eastern Pacific Barrier"  
\*H.A. Lessios, D.R. Robertson, B.D. Kessing
- 429 11:00 Phylogenetic systematics of the genus *Ptychocheilus* (Teleostei: Cyprinidae) based on mitochondrial DNA cytochrome B sequences  
\*M.J. Whitney, D.K. Shiozawa, M.F. Whiting
- 430 11:15 A contradiction of Cope's rule using an extant continental biota  
\*J.H. Knouft
- 431 11:30 Morphometry as a potential cost of rapid growth in pumpkinseed sunfish: ontogeny and population differences in body shape  
\*J.D. Arendt, D.S. Wilson
- 432 11:45 Coastal phylogeography and zoogeography of Pacific North America  
\*M.N Dawson†, D.K. Jacobs

**SESSION 60 EVOLUTION OF SEX AND SEX DETERMINATION****10:00-12:00 RM:MUPC**

- Chair: Kathryn Hanley
- 433 10:30 A test of the regulation and adaptive value of sex in the bacteriophage phi 6  
\*K.A. Hanley, P.E. Turner, C. Burch, L. Chao

- 434 10:45 Microsatellite typing of aphid eggs reveals unexpected distribution of X chromosomes: sex disturbs stable heterozygosity in functionally parthenogenetic aphids  
\*A.C.C. Wilson, P. Sunnucks, D.F. Hales
- 435 11:00 Evolution of recombination at low mutation rates  
\*D. Gessler, S. Xu
- 436 11:15 Linkage analysis of sex determination in a parasitoid wasp  
A.K. Holloway, M.R. Strand, \*M.F. Antolin
- 437 11:30 The role of maternal behavior in the evolution of temperature-dependent sex determination in reptiles  
F.J. Janzen
- 438 11:45 The first tetraploid mammal: tetraploidy in a South American desert rodent  
\*M.H. Gallardo, J.W. Bickham, R.L. Honeycutt, R. Ojeda, N. Kohler

**SESSION 61 SPECIATION AND CLADOGENESIS****10:00-12:00 RM:G2080**

Chair: Sara Via

- 439 10:30 Genetic architecture of ecological specialization and incipient speciation in pea aphids on two hosts: preliminary results  
S. Via

- 440 10:45 Patterns of evolution in the Galapagos sharp-beaked ground finch revealed with microsatellites  
\*K. Petren, B.R. Grant, P.R. Grant

- 441 11:00 Phylogeny of mimetic color patterns in *Alabagrus* (Hymenoptera: Braconidae)  
\*J. Leathers†, M. Sharkey

- 442 11:15 Genetic mapping of premating isolation in *Drosophila melanogaster*  
\*A. Takahashi†, C-T. Ting, C-I. Wu

- 443 11:30 The effects and interaction of temperature, photoperiod, and winter-length on diapause in the Apple Maggot Fly, *Rhagoletis pomonella*  
\*K. Filchak, J.L. Feder, J.B. Roethel

- 444 11:45 Behavioral isolation between two species of Hawaiian *Drosophila*: a role for substrate vibration?  
\*C.R.B. Boake, D.K. Andreadis, K. Buchanan

**SESSION 62 COMBINED-DATA SYSTEMATICS****10:00-12:00 RM: SHSA**

Chair: John Gatesy

- 445 10:30 Testing macroevolutionary hypotheses in the Percidae: perspectives from nuclear and mitochondrial DNA sequence data  
T.J. Near†

- 446 10:45 Iterative and noniterative strongest evidence phylogenetic inference: simulation tests  
B.A. Salisbury†

- 447 11:00 The application of squared change parsimony to discrete characters  
M. Sharkey

- 448 11:15 Whale origins: a reconciliation of molecular and paleontological data  
J. Gatesy

- 449 11:30 Comparison of levels of homoplasy in morphology and cytochrome b sequences from marmotine squirrels  
\*D.L. Swiderski, S.A. Jansa

- 450 11:45 The maximum parsimony landscape: will we ever find the shortest tree?  
B.C. Kirkup†

**SESSION 63 ECOLOGICAL GENETICS****10:00-12:00 RM:S180**

- Chair: Michael Hart
- 451 10:30 Fitness consequences of hybridization between ecotypes of *Chamaecrista fasciculata* grown in contrasting native environments  
J.R. Etterson
- 452 10:45 Pleiotropy and serendipity in fusion-rejection behavior of hydroids  
\*M.W. Hart, R.K. Grosberg
- 453 11:00 Ecological genetics of a benthic copepod inhabiting contaminated and clean sediments  
\*N.V. Schizas, B.C. Coull, G.T. Chandler, J.M. Quattro
- 454 11:15 Likely corridors of gene flow revealed in a highly migratory pelagic fish  
\*C.A. Reeb, B.A. Block
- 455 11:30 Construction and screening of SSR-enriched libraries using PCR  
\*P.R. Aldrich, W.J. Kress
- 456 11:45 Ecological influences on genetic structure in an epiphytic orchid  
\*C.J. Murren, C.D. Schlichting

**SESSION 64 EVOLUTIONARY BIOLOGY OF PARASITES,****PATHOGENS AND THEIR HOSTS (COMPANION TO SSE SYMPOSIUM 6)****10:00-12:00 RM:MUTC**

- Chair: Susan Mopper
- 457 10:30 Transitions between mutualism and parasitism: studies of arbuscular mycorrhizal and plant species interactions  
\*A. Pringle, J. Bever, J. Antonovics
- 458 10:45 Persistence of pseudogenes in bacterial endosymbionts: silencing of biosynthetic genes may reduce the symbiotic potential of *Buchnera*  
\*J.J. Wernegreen, J.E. McCormack, N.A. Moran
- 459 11:00 Host resistance and the evolution of parasite virulence  
\*S. Gandon, M. van Baalen, V.A.A. Jansen
- 460 11:15 Trade-offs between transmission and virulence: optimal parasite life history based on within-host dynamics  
\*M.A. Gilchris, W.G. Wilson, J. Antonovics
- 461 11:30 Gene matching and local adaptation by parasites: evidence in a trematode-snail system  
\*M. Dybdahl, C. Lively
- 462 11:45 Population history and the costs of parasitism in white sands pupfish  
\*M.L. Collyer, C.A. Stockwell

**SYMPOSIUM 6A SSE: EVOLUTIONARY BIOLOGY OF PARASITES,****PATHOGENS AND THEIR HOSTS****1:15-3:15 RM:MUT**

- Chair: Susan Mopper
- 463 1:15 Spatiotemporal variation in leafminer population structure and adaptation to individual oak trees  
S. Mopper
- 464 1:45 Host choice and the ideal free distribution in parasites  
M. Kirkpatrick

- 465 2:15 Differential adaptation in spatially heterogeneous environments and host-parasite coevolution  
\*Y. Michalakis, S. Gandon
- 466 2:45 Host heterogeneity in susceptibility and coevolution in the interaction between the gypsy moth and its virus  
\*G.Dwyer, J. Dushoff, S. Levin

**SESSION 65 BIOGEOGRAPHY: BIRDS****1:15-3:15 RM:MUTC**

- Chair: Gregory Mayer
- 467 1:15 Are West Indian bird communities saturated?  
G.C. Mayer
- 468 1:30 Determinants of diversity in Mesoamerican highland birds: latitude versus history  
\*D.M. Watson, A.T. Peterson
- 469 1:45 A coalescent commentary on comparative phylogeography  
\*S.V. Edwards, P. Beerli
- 470 2:00 Genetic evidence for a Pleistocene range expansion and a refugium population in MacGillivray's warbler, a neotropical migratory bird  
\*B. Mila, D.J. Girman, T.B. Smith
- 471 2:15 The phylogeographical structure of the mexican jay, a sedentary species  
S.-H. Li
- 472 2:30 Adaptive divergence in sexual dimorphism among recently established bird populations: an ontogenetic perspective  
\*A.V. Badyaev, G.E. Hill, L.A. Whittingham
- 2:45 CANCELLATION

**SESSION 66 ADAPTATION: LIFE HISTORIES****1:15-3:15 RM:H3650**

- Chair: Adrienne Nicotra
- 473 1:15 Flippers versus feet: is there a difference between aquatic and non-aquatic carnivores?  
\*O.R.P. Bininda-Emonds†, J.L. Gittleman
- 474 1:30 Evolution of visual signals in a variable light environment  
M.E. Cummings
- 475 1:45 Comparative myology and osteology of the pelvic regions of *Mabuya capensis* and *Acontias plumbeus* (Scincidae).  
\*N.J.L Heideman, M.G.J hendricks, B.A. Wilson, S.R. Daniels
- 476 2:00 The pace of modern life: measuring rates of contemporary micro-evolution  
\*A.P. Hendry, M.T. Kinnison
- 477 2:15 Adaptive significance of developmentally based variation in flowering time and breeding system  
\*M. Geber, V. Eckhart
- 478 2:30 Phylogenetically independent contrasts reveal patterns in the evolution of root structure comparing Australian mesic and xeric plant species  
\*A.B. Nicotra, N. Babicka, M. Westoby
- 479 2:45 20th-century microevolution in translocated salmon populations  
\*M.T. Kinnison, A.P. Hendry

<b>SESSION 67 SEXUAL SELECTION</b>			<b>1:15-3:15 RM:S180</b>
		Chair: Timothy Ehlinger	
480	1:15	Intensity of sexual selection and life-history divergence populations of bluegill sunfish T.J. Ehlinger	
481	1:30	Postcopulatory influences on differential sperm storage and male success in the yellow dungfly *B. Hellriegel, G. Bernasconi	
482	1:45	The ontogeny of sexual dimorphism: variation among populations. *V.N. Rush, E. Eakin, K. Gaetke, R.C. Sargent	
483	2:00	Sexy sperm in the red flour beetle *G. Bernasconi, L. Keller	
484	2:15	Reproductive character displacement on male mate selectivity in a unisexual-bisexual complex of live bearing fish (Poeciliidae) *C. R. Gabor, M. J. Ryan	
485	2:30	Can environmental heterogeneity resolve the lek paradox? Ecological genetic analyses of ultrasonic mate signaling in waxmoths *M.D. Greenfield, F. Jia	
	2:45	CANCELLATION	
<b>SESSION 68 POPULATION GENETICS: MOLECULAR EVOLUTION</b>			<b>1:15-3:15 RM: SHSA</b>
		Chair: David Ardell	
486	1:15	Comparative Y chromosome variation in the Hominoidea *T. K. Altheide, M. F. Hammer	
487	1:30	The per-nucleotide mutation rate in humans *M.W. Nachman, S.L. Crowell	
488	1:45	A test of background selection: is microsatellite variability correlated with recombination rate in humans? *B.A. Payseur, C.J. Hanus, M.W. Nachman	
489	2:00	Gene conversion may aid adaptive peak shifts T. Hansen, *A. Carter, C-H. Chiu	
490	2:15	Gene scrambling and the origin of the alternative genetic code in <i>Hypotrichous</i> ciliates *D.H. Ardell, L.F. Landweber	
491	2:30	Comparisons of AFLP and RFLP markers on the ability to detect population genetic structure of mosquitoes *G. Yan, J. Romero-Severson, M. Walton, D. D. Chadee, D. W. Severson	
492	2:45	Gene flow in the killifish <i>Fundulus heteroclitus</i> *K.A. Callicott, D.A. Powers	
<b>SESSION 69 MOLECULAR EVOLUTION: GENOMES</b>			<b>1:15-3:15 RM:G2080</b>
		Chair: Dennis Powers	
493	1:15	Micro evolution of LDH-B expression between populations of <i>Fundulus heteroclitus</i> H. Glemet, G. Deng, P. Schulte, *D.A. Powers	
494	1:30	A case for concerted evolution in prolamin (seed storage protein) gene of <i>Oryza</i> , Poaceae *I.M. Boyle†, K.W. Hilu	
495	1:45	The coevolution of ribosomal RNA gene copy number with genome size *C.D. Prokopowich, T.R. Gregory, T.J. Crease	

- 496 2:00 Low rate of spontaneous DNA loss in large cricket genomes: the C-value paradox revisited  
\*D.A. Petrov, T.A. Sangster, J.S. Johnston, D.L. Hartl, K.L. Shaw
- 497 2:15 Characterization of nuclear insertion of mitochondrial DNA sequences (Numt) in the genus *Panthera*  
\*J. Kim, W.E. Johnson, S.J. O'Brien
- 498 2:30 Evolution of dynamic gene rearrangements in *Hypotrichous* ciliates  
\*L. Landweber, T. Kuo, A. Goodman, E. Curtis
- 499 2:45 Evolutionary rate of sulfur-oxidizing symbiotic bacterial 16S rDNA associated with life history  
A.S. Peek†

**SESSION 70 MOLECULAR SYSTEMATICS: METAZOANS****1:15-3:15 RM:G1100**

Chair: Charles Delwiche

- 500 1:15 A tale of sessile "worm-snails": molecular systematics and character evolution within the Vermetidae (Caenogastropoda).  
\*T.A. Rawlings, R. Bieler, T. M. Collins
- 501 1:30 Single copy nuclear gene phylogeny for the polyploid clonal clam *Lasaea*  
\*D. O'Foighil, J.-K. Park
- 502 1:45 Why sponge paraphyly would imply that our ancestors sucked  
D.J. Eernisse
- 503 2:00 Molecular taxonomy of the clownfish sea anemones (Cnidaria: Actiniaria)  
T.R. White†
- 504 2:15 Phylogenetics of Australian lawn-head onychophorans: a role for chromosome change in speciation?  
\*M.V. Rockman†, D.M. Rowell
- 505 2:30 The Edwardsiidae and relationships among the Zoantharia  
M. Daly†
- 506 2:45 Plastids in Alveolata: a laboratory of plastid evolution  
\*C.F. Delwiche, T.R. Bachvaroff, T. Tengs

**SYMPOSIUM 6B SSE: EVOLUTIONARY BIOLOGY OF PARASITES,****PATHOGENS AND THEIR HOSTS****3:30-5:15 RM:MUT**

Chair: Susan Mopper

- 507 3:30 The role of demographic assymetries in local adaptation in host-parasite interactions  
B. Holt
- 508 4:00 Sexually transmitted diseases in polygynous mating systems  
\*J. Antonovics, P.H. Thrall
- 509 4:30 Insights from genomics about directions of symbiont and pathogen evolution  
\*N. Moran, J. Werneckgreen

**SESSION 71 BIOGEOGRAPHY: PLANTS****3:30-5:15 RM:G2120**

Chair: Jeff Mitton

- 510 3:30 Phylogeography of *Manihot esculenta* (Euphorbiaceae) based on a single-copy nuclear gene: on the origins of cassava  
K.M. Olsen†
- 511 3:45 Phylogeny and biogeographical relationships in the ancient plant lineage *Selaginella*  
\*J.P. Therrien, C.H. Haufler, P. Korall

- 512 4:00 Phylogeography of North and South American *Larrea*: polyploidy and ISSRs  
\*L.A. Young, A.L. Maier, R.B. Hunter, K.L. Hunter
- 513 4:15 Population structure of mitochondrial DNA in limber pine  
\*J.B. Mitton, B.R. Kreiser, R.G. Latta
- 514 4:30 Implications of chloroplast DNA variation for the evolution of the Macaronesian endemic genus *Pericallis* (Asteraceae, Senecioneae).  
S. Park, J. Francisco-Ortega, A. Santos-Guerra, \*R.K. Jansen
- 515 4:45 Establishment of taxonomic boundaries in the *Malesherbia humilis* complex (Malesherbiaceae) using phenetic analyses of morphological traits  
K.M. Gengler
- 516 5:00 Genetic and physiological differences within the polyploids of *Medicago sativa* ssp *falcata*  
\*M.J. Scott, R.A. Dumeyer, R.B. Hunter, K.L. Hunter

**SESSION 72 ECOLOGICAL GENETICS****3:30-5:15 RM:H1111**

- Chair: Carlos Machado
- 517 3:30 Molecular population genetics of fig wasps: evidence for selection in their mitochondrial genome  
\*C.A. Machado, E.A. Herre
- 518 3:45 Polyploidy and genetic variability of invasive populations of *Phragmites australis*  
\*R.O. Spenst, J. Hauver, R.B. Hunter, K. L. Hunter
- 519 4:00 Use of microsatellites in examining effects of local extinction in populations of mosquitofish in the Florida Everglades  
\*K.L. Kandl, J. C. Trexler
- 520 4:15 Behavior and population genetics of the invasive Argentine ant (*Linepithema humile*) in its native and introduced ranges  
\*N.D. Tsutsui, A.V. Suarez, D.A. Holway, T.J. Case
- 521 4:30 Genetic interactions in the evolutionary divergence of populations  
\*J.R. Getty, W.E. Bradshaw, C.M. Holzapfel
- 522 4:45 Demographic and genetic structure of rodent populations in a variable environment: an example from north-central Chile.  
\*W.B. Milstead, P.L. Meserve
- 523 5:00 Estimation of heritability of secondary chemistry in a natural population of *Quercus laevis* using molecular markers  
\*R.D. Klaper, M.D. Hunter, T.A. Mousseau

**SESSION 73 SYSTEMATICS AND CHARACTER EVOLUTION****3:30-5:15 RM:MUTC**

- Chair: Susan Weller
- 524 3:30 A morphological phylogeny and the evolution of claw shape in fiddler crabs (genus *Uca*)  
M.S. Rosenberg†
- 525 3:45 The evolution of chemical defenses and mating systems in tiger moths (Lepidoptera: Arctiidae).  
\*S.J.Weller, N.L.Jacobson, W.E.Conner
- 526 4:00 Patterns of distribution of genital papillae in oxyurids parasitic on primates as revealed by Landmarks analysis  
\*J.P. Hugot, M. Baylac

- 527 4:15 Statistical power comparisons among alternative morphometric methods  
F.J. Rohlf
- 528 4:30 The saturation of cladistic character spaces among fossil taxa  
P.J. Wagner
- 529 4:45 The inferential basis of homology  
K. Fitzhugh
- 530 5:00 Species names in a phylogenetic nomenclature: the use of epithets is a logical solution  
T. Eriksson

**SESSION 74 SPECIES INTERACTIONS****3:30-5:15 RM: SHSA**

Chair: Ken Paige

- 531 3:30 Overcompensation through the paternal component of fitness  
\*K.N. Paige, B. Williams, T. Hickox
- 532 3:45 Plant invasions into coevolved plant/insect systems: heritability of native herbivore response  
\*C.L. Boggs, R.S. Niell
- 533 4:00 Competition amplifies the costs and benefits of plant resistance to herbivores  
\*A.E. Weis, M.E. Hochberg
- 534 4:15 Competition produces frequency-dependent selection favoring resistance: an experiment with the wild mustard *Brassica rapa*  
D.M. Franke, \*A.E. Weis
- 535 4:30 Maternal effects and heritability of host preference in a hemiparasitic plant  
\*L.S. Adler, J.I. Yoder
- 536 4:45 Resistance and virulence in an aphid-parasitoid interaction: evidence for evolution following a biological control introduction  
R.A. Hufbauer
- 537 5:00 Seasonality and specificity among luminous bacteria in sympatric species of bobtail squids  
M.K. Nishiguchi

**SESSION 75 BIOGEOGRAPHY: METAZOANS****3:30-5:15 RM:G1100**

Chair: Jay Schneider

- 538 3:30 Biogeography and evolution of poecilogeny in the polychaete genus *Streblospio*: evidence from molecular genetics and reproductive compatibility trials  
\*S.R. Schulze, S.A. Karl, S.A. Rice, J.L. Simon
- 539 3:45 Origin and early evolution of brackish- and freshwater cockles (Bivalvia: Cardiidae)  
J.A. Schneider
- 540 4:00 Speciation in the deep sea: tracing the origin and spread of hydrothermal vent-endemic amphipods  
S.C. France
- 541 4:15 Dispersal can sharpen parapatric contacts. A model of species distributions for a spatially variable domain, species competition and density dependent dispersal  
\*G. Garcia-Ramos, F. Sanchez-Garduno, P.K. Maini
- 542 4:30 CANCELLATION
- 543 4:45 CANCELLATION

**SESSION 76 MOLECULAR EVOLUTION: PHYLOGENY-BASED COMPARATIVE ANALYSES 3:30-5:15 RM:S180**

- Chair: Jim Leebens-Mack
- 544 3:30 Power analyses and phylogenetically based tests of change in selective constraint on coding genes  
\*J. Leebens-Mack, C.W. dePamphilis
- 545 3:45 Separation of phylogenetic and functional associations in biological sequences using the parametric bootstrap  
\*K.R. Wollenberg, W.R. Atchley
- 546 4:00 Mhc from songbirds: A test of the "Minimal Essential Mhc"  
\*C.M. Hess, S.V. Edwards, J. Gasper, D. Garrigan
- 547 4:15 Fifty million years old polymorphism at an immunoglobulin variable region gene locus in the rabbit evolutionary lineage  
\*C. Su, M. Nei
- 548 4:30 Evolution of virulence-associated factors in Shiga toxin-producing *E. coli*  
\*J. Colbourne, P. Boerlin, S.Chen, R. Johnson, C.Gyles
- 549 4:45 Presence/Absence of representative sporulation genes in Gram - type positive and negative bacteria and their position in the 16S rDNA-based phylogenetic tree  
J. Wiegel
- 550 5:00 Evolutionary origin of the two-component quorum sensing system  
\*J.A. Rosinski, W.R. Atchley

**SESSION 77 ADAPTATION: LIFE HISTORIES**

3:30-5:15 RM:H3650

- Chair: Robert Fischer
- 551 3:30 Lipid and reproductive cycles of Bluegills exposed to 35 years of elevated environmental temperatures  
R. Fischer
- 552 3:45 From enzyme to phenotype: re-evaluating metabolic control and its role in evolution  
\*H. Bagheri-Chaichian, G.P. Wagner
- 553 4:00 Physiological changes during independent invasions of fresh water  
Carol Eunmi Lee
- 554 4:15 Does morphological diversification promote divergence in locomotor performance?  
D.B. Miles
- 555 4:30 Pleiotropic effects of flower color on herbivory and pathogen attack  
R.A. Zufall
- 556 4:45 Evolutionary genetics of paedomorphosis using laboratory verses wild-caught axolotls  
\*S.R. Voss, H.B. Shaffer
- 557 5:00 Patterns of emergence and fixation of beneficial mutations in *E. coli*  
\*D.E. Rozen, J.A.G.M. de Visser, R.E. Lenski

**Saturday, 26 June****SESSION 78 MOLECULAR SYSTEMATICS: METHODS****8:30-10:00 RM:G2080**

Chair: Roderic Page

- 558 8:30 Combatting the bias inherent in popular applications of the Kishino-Hasegawa test of topologies: two improved tests  
\*N. Goldman, J. Andersen, A. Rodrigo, H. Shimodaira
- 559 8:45 Extracting species trees from complex gene trees: reconciled trees and vertebrate phylogeny  
R.D.M. Page
- 560 9:00 Geometry of phylogenetic estimation: mixture models  
\*J. Kim, K. Atteson
- 561 9:15 Consistent phylogenetic estimation with dependent and heterogeneous sites  
\*K. Atteson, J. Kim
- 562 9:30 A rapid heuristic algorithm for finding minimum evolution trees  
\*A.S. Rodin, W-H. Li
- 563 9:45 CANCELLATION

**SESSION 79 HYBRIDIZATION AND HYBRID ZONES: ANIMALS****8:30-10:00 RM:MUPC**

Chair: Thore Bergman

- 564 8:30 A genome wide survey of the impact of historical hybridization events on present-day North American bison populations  
\*T.J. Ward, S.K. Davis, R.D. Schnabel, J.N. Derr
- 565 8:45 Reproductive success of hybrid male baboons: implications for gene flow in Ethiopia's Awash National Park  
\*T.J. Bergman, J.E. Phillips-Conroy, C.J. Jolly, T.R. Disotell
- 566 9:00 The role of a riverine barrier in obstructing the introgression of positively selected traits: microsatellite data from the *Manacus vitellinus/M. candei* hybrid zone  
\*R.T. Brumfield, M.J. Braun
- 567 9:15 Microsatellite markers reveal selection against a Zimbabwe genome in an experimental hybrid zone of *Drosophila melanogaster*  
\*D.M. Rand, D.M. Weinreich
- 568 9:30 Associations between cytoplasmic and nuclear loci in hybridizing populations  
\*M.E. Orive, N.H. Barton
- 569 9:45 CANCELLATION

**SESSION 80 PHENOTYPIC PLASTICITY****8:30-10:00 RM:H3650**

Chair: Richard Miller

- 570 8:30 Evolution of reaction norms in the common morning glory, *Ipomoea purpurea*  
\*R.E. Miller, M.D. Rausher
- 571 8:45 Evolutionary responses to environmental heterogeneity: population differences in plasticity to light-quality cues  
C. Weinig
- 572 9:00 Can phenotypic plasticity evolve in highly variable environments?  
\*G. Davidowitz

- 573 9:15 Genetic architecture of plastic shade-avoidance responses in field environments  
\*K. Donohue, J. Schmitt, E. Hamond-Pyle, S. M. Heschel, D. Messiqua
- 574 9:30 History stored in a *Daphnia* dormant egg bank: norm of reaction evolution in response to eutrophication.  
\*C.L. Holtmeier, N.G. Hairston Jr., W. Lampert, J. Fischer
- 575 9:45 Are environment - dependent fitness effects common among *E. coli* genes?  
\*S.K. Remold, R.E. Lenski

**SESSION 81 MOLECULAR SYSTEMATICS: BIRDS****8:30-10:00 RM:G2120**

- Chair: Shannon Hackett
- 576 8:30 Evolution in a clade of manakins: insights from multiple data sets  
\*S.J. Hackett, J.G. Tello
- 577 8:45 Variation in the mitochondrial control region in falconiform birds  
C.S. Griffiths
- 578 9:00 What makes a bird a bird: diversity and evolution of feather Beta Keratin DNA sequences  
\*T.C. Glenn, J. French, R.H. Sawyer
- 579 9:15 Molecular systematics of the parrot family Cacatuidae  
\*R. Richey, L.K. Ammerman, M.T. Dixon
- 580 9:30 Phylogenetic utility of the nuclear c-myc gene applied to the ratite birds  
\*S.J. Steppan, C.J. Huddlestun, M.J. Braun
- 581 9:45 The rate and mode of speciation in the Andean avifauna - the importance of isolated communities  
\*J. Garcia-Moreno, J. Feldsa

**SESSION 82 POPULATION GENETICS****8:30-10:00 RM:MUTC**

- Chair: Joana Silva
- 582 8:30 Speciation history at the Odysseus locus of reproductive isolation  
\*S.C. Tsaur, C.-T. Ting, C.-I Wu
- 583 8:45 Population genetics of *D. willistoni*, a widespread New World Drosophilid  
\*J.C. Silva, M.G. Kidwell
- 584 9:00 A population genetic analysis of nucleotide sequence variation from an 11.2 kb region of the HLA-linked human hemochromatosis locus  
\*C.M. Toomajian, M. Kreitman
- 585 9:15 An excess of linkage disequilibrium in the *Drosophila* genome  
M. Przeworski, \*P. Andolfatto
- 586 9:30 Asexual reproduction depends on heterozygosity in the facultatively parthenogenetic cockroach *Nauphoeta cinerea*  
\*L.S. Corley, A.J. Moore
- 587 9:45 Tests of the Infinite Allele, Stepwise, and Multistep models for microsatellites in two species of tropical trees  
\*J. Dole, S. Dayanandan, C. Moller, M. Chase, R. Kesseli

**SESSION 83 MOLECULAR EVOLUTION****8:30-10:00 RM:G1100**

- Chair: Ole Seberg
- 588 8:30 Extreme homogenization of exons and introns within a modular gene: molecular evolution of spider flagelliform silk  
C. Hayashi

- 589 8:45 Protein structure and protein sequences: studying the relationship between phenotype and genotype at the molecular level  
\*J.L. Thorne, N. Goldman, D.T. Jones
- 590 9:00 NeSL-1, a novel lineage of site-specific non-LTR retrotransposons in *C. elegans*.  
\*H.S. Malik, T.H. Eickbush
- 591 9:15 Molecular evolution of the protamine P1 sperm protein in mammals  
\*A.P. Rooney, J. Zhang, M. Nei
- 592 9:30 The modulation of DNA content: proximate causes and ultimate consequences  
\*T.R. Gregory, P.D.N. Hebert
- 593 9:45 Are pairing chromosomes homologous?  
\*O. Seberg, G. Petersen

**SESSION 84 MATING/BREEDING SYSTEMS****10:30-12:00 RM:G2080**

Chair: Suzanne Alonzo

- 594 10:30 Mate grasping in *Drosophila pegasa*  
\*C.J. Gronlund, M.P. DeAngelis, J.A. Coyne
- 595 10:45 Inbreeding depression in a self-compatible, androdioecious crustacean, *Eulimnadia texana*  
\*S.C. Weeks, N. Zucker
- 596 11:00 Reproductive investment and modern portfolio theory  
J. L. Leonard
- 597 11:15 Stabilization of mixed-mating systems by differences in the magnitude of inbreeding depression for male and female fitness components  
\*M. D. Rausher, S.-M. Chang
- 598 11:30 Games fish play: the effect of conflict within and between the sexes on the evolution of reproductive behavior  
\*S.H. Alonzo, R.R. Warner
- 599 11:45 CANCELLATION

**SESSION 85 HYBRIDIZATION AND HYBRID ZONES: PLANTS****10:30-12:00 RM:S180**

Chair: Shanna Carney

- 600 10:30 Genetic assimilation: hybridization as a threat to the California sunflowers  
\*S.E. Carney, L.H. Rieseberg
- 601 10:45 Clonal reproduction in Louisiana iris hybrid populations  
\*J.M. Burke, M.R. Bulger, R.A. Wesselingh, M.L. Arnold
- 602 11:00 Genotype-by-environment effects on the fitness of wild-crop hybrids of squash (*Cucurbita pepo*)  
\*L.J. Spencer, A.A. Snow
- 603 11:15 Introgressive hybridization and the colonization of Texas by the common sunflower  
\*S.-C. Kim, L. H. Rieseberg
- 604 11:30 Hybrid speciation in *Delphinium gypsophilum* (Ranunculaceae)  
\*J.A. Koontz, P.S. Soltis
- 605 11:45 The origin of hybrid species of paeonies (*Paeonia*): reconstructing reticulate evolution with the low copy nuclear gene Adh  
T. Sang, \*D.M. Ferguson

<b>SESSION 86 DEVELOPMENTAL EVOLUTIONARY BIOLOGY</b>			<b>10:30-12:00 RM:G1100</b>
Chair: Chi-hua Chiu			
606	10:30	Evolving expression patterns of regulatory genes in direct and indirect developing sea urchins M.G. Nielsen, R.A. Raff	
607	10:45	Convergent maternal provisioning in direct developing sea urchins *J.T. Villinski, R.A. Raff	
608	11:00	Redox control of heterochrony in a basal metazoan N.W. Blackstone	
609	11:15	Segmental homologies and hox gene expression in a model chelicerate arthropod M.J. Telford, *R.H. Thomas	
610	11:30	Transgenic expression of hoxa-11 across the fin-limb transition: investigations into the origin of the tetrapod limb *C-H. Chiu, G.P. Wagner	
611	11:45	The role of floral symmetry genes in the evolution of stamen abortion in Mohavea (Scrophulariaceae, Antirrhineae) *L.C. Hileman, D.A. Baum	
<b>SESSION 87 MOLECULAR EVOLUTION: POPULATION GENETICS</b>			<b>10:30-12:00 RM:MUTC</b>
Chair: Carlos Bustamante			
612	10:30	Contrasting rates of molecular evolution for three hexokinase genes in <i>Drosophila melanogaster</i> and <i>D. simulans</i> *D.D. Duvernall, W.F. Eanes	
613	10:45	Molecular evolution of a retrovirus regulatory protein during progression of disease *P. Baccam, M. Belshan, G.J. Naylor, J.L. Cornette, S.L. Carpenter	
614	11:00	Intron length is modulated by natural selection *J.M. Comeron, M. Kreitman	
615	11:15	Molecular and population genetics of bioluminescence color polymorphisms in the Jamaican click beetle, <i>Pyrophorus plagiophthalmus</i> *U. Stoltz, K. Wood, J.L. Feder	
616	11:30	The nature of purifying selection: structural constraints on amino acid variation within species *C.D. Bustamante, J. P. Townsend, D. L. Hartl	
617	11:45	Nucleotide sequence diversity at the alcohol dehydrogenase 2 (ADH2) locus in wild barley ( <i>Hordeum vulgare</i> spp. <i>spontaneum</i> ) *J.-Z. Lin, M.T. Clegg	
<b>SESSION 88 PHENOTYPIC PLASTICITY</b>			<b>10:30-12:00 RM:H3650</b>
Chair: Lisa Dorn			
618	10:30	Phenotypic plasticity in RNA secondary structure: a case study of the Baldwin Effect *L.W. Ancel, W. Fontana	
619	10:45	Plastic responses to resource availability in <i>Arabidopsis thaliana</i> : environmentally-induced shifts in variability within and among genotypes *S.J. Tonsor, M.A. VanderMeulen, P.G. Brautigam	
620	11:00	Evolution of polyphenic development in the scarab beetle <i>Onthophagus taurus</i> A.P. Moczek	

- 621 11:15 Family and diet effects on aposematism of an arctiid moth: honest advertising to predators and conspecifics?  
 \*K.C. Kelley, M. Sweeney
- 622 11:30 Environmental control of male dimorphism in a marine amphipod: the role of diet quality  
 \*J.P. Kurdziel
- 623 11:45 Genetic variation and adaptive phenotypic plasticity of *Arabidopsis thaliana*  
 \*L.A. Dorn, E. Hammond-Pyle, J. Schmitt

**SESSION 89 MOLECULAR EVOLUTION: RATES AND CONSTRAINTS****10:30-12:00 RM:MUPC**

Chair: Lindell Bromham

- 624 10:30 Evolving mutation rates and the mammalian molecular clock  
 L. Bromham
- 625 10:45 Cytochrome-b evolution in birds and mammals: an evaluation of the avian constraint hypothesis  
 \*S. Stanley, R. Harrison
- 626 11:00 Testing the molecular clock hypothesis under nonhomogeneous nucleotide frequencies.  
 N.J. Tourasse
- 627 11:15 Among-site rate variation in the mitochondrial D-loop  
 \*Z. Yang, L. Excoffier
- 628 11:30 Microsatellite mutation rates differ between dinucleotide repeat motifs - evidence from *Drosophila melanogaster*  
 \*D. Bachtrog, C. Schloetterer
- 629 11:45 CANCELLATION

**SESSION 90 ANALYSIS OF LIFE HISTORIES****2:00-3:00 RM:MUPC**

Chair: Olav Rüppell

- 630 2:00 Testing adaptive plasticity: effects of maternal food limitation on offspring life history  
 F. Bashey
- 631 2:15 Patterns of queen recruitment in multiple-queen colonies of the fire ant *Solenopsis invicta*  
 \*M.A.D. Goodisman, K.G. Ross
- 632 2:30 Comparing two queen-dimorphic ant species: genetic evidence for alternative tactics  
 \*O. Rüppell, B. Hölldobler, J. Heinze
- 633 2:45 Effects of aggressive interactions on predation risk: a mathematical model  
 R. Diaz-Uriarte

**SESSION 91 POPULATION GENETICS: THEORY AND METHODS****2:00-3:00 RM:MUTC**

Chair: Daniel Promislow

- 634 2:00 The evolution of multiple adaptive peaks under Fisherian selection  
 \*M.R. Dickerson, J.S. Heywood
- 635 2:15 Phylogenetic estimation of parameters for population growth and genetic hitchhiking  
 \*D.A. Vasco, Y-X. Fu
- 636 2:30 Comparative methods within species: contrasts and migration matrices  
 J. Felsenstein
- 637 2:45 Genomic demography: A life history analysis of transposable element evolution  
 \*D. Promislow, I.K. Jordan, J.F. McDonald

**SESSION 92 QUANTITATIVE GENETICS****2:00-3:00 RM:G1100**

- Chair: Tia-lynn Ashman
- 638 2:00 Parental effects on growth and development in the Burying beetle *Nicrophorus pustulatus*  
\*C. M. Rauter, A. J. Moore
- 639 2:15 Deleterious mutations and floral variation in *Mimulus guttatus*  
J. Kelly
- 640 2:30 A quantitative genetic analysis of locomotor performance and life history traits in the Pacific tree frog  
T.B. Watkins
- 641 2:45 An analysis of quantitative genetic variation in a gynodioecious wild strawberry, *Fragaria virginiana*  
T-L. Ashman

**SESSION 93 MOLECULAR SYSTEMATICS: METHODS****2:00-3:00 RM:H3650**

- Chair: Bret Larget
- 642 2:00 Compositionally biased branches attract  
P.G. Foster
- 643 2:15 A higher order parsimony method for quartets that reduces long-branch attraction  
\*S. J. Willson
- 644 2:30 Phylogenetic Power Analysis: a more straightforward use of bootstrapping in phylogenetics  
\*G.A. Hoelzer, J. Lyons-Weiler
- 645 2:45 A comparison of methods for assessing uncertainty in phylogenetic inference  
\*B. Larget, D.L. Simon

**SESSION 94 MECHANISMS OF POST-REPRODUCTIVE ISOLATION****2:00-3:00 RM:G2080**

- Chair: Joseph Williams
- 646 2:00 Detecting quantitative trait loci in a natural hybrid zone  
\*K. Gardner, J. Whitton, L. Rieseberg.
- 647 2:15 Fertilization and sperm-egg interactions in Arthropods  
T. L. Karr
- 648 2:30 Gamete competition and reproductive isolation in *Betula*: using DNA content to identify competing gametes in mixed pollinations  
\*J.H. Williams, W.E. Friedman, M.L. Arnold
- 649 2:45 A genetic test of the mechanism of *Wolbachia*-induced cytoplasmic incompatibility in *Drosophila*  
D. Presgraves

**SESSION 95 MOLECULAR SYSTEMATICS: VERTEBRATES****3:30-4:45 RM:MUTC**

- Chair: Michael Alfaro
- 650 3:30 Evolution and systematics of thamnophiine snakes  
\*M.E. Alfaro, S.J. Arnold
- 651 3:45 A genetic perspective on the evolution and biogeography of New Zealand reptiles  
\*J. M. Hay, L. R. Maxson
- 652 4:00 Molecular phylogeny and evolution of the parrotfishes  
\*J.T. Streelman, M.E. Alfaro, M.W. Westneat, S.A. Karl

- 653 4:15 Molecular phylogenetic perspectives on shark evolution: a mitochondrial and nuclear multi-gene analysis on relationships within the Lamnidae, and an interordinal phylogeny based on mt rRNA genes  
\*M. Dosay, S. Harrison, M.S. Shivji, M.J. Stanhope.
- 654 4:30 Phylogenetic reconstruction of the order Carnivora using individual and combined single copy nuclear DNA sequences  
\*L.M. McKenzie, J. Pecon Slattery, T. Laughlin, S.J. O'Brien

**SESSION 96 POPULATION GENETICS: COEVOLUTION AND CONSERVATION****3:30-4:45 RM:G1100**

Chair: Axayacatl Rocha-Olivares

- 655 3:30 Dynamics of code-message coevolution and the origin of the standard genetic code  
\*D.H. Ardell, G. Sella
- 656 3:45 Transcontinental homogeneity and the population genetics of an aphid / bacterial endosymbiosis  
\*D.J. Funk, L. Helbling, N.A. Moran
- 657 4:00 Population genetic structure of the orange roughy (*Hoplostethus atlanticus* Collett): an analysis of a globally-distributed teleost using microsatellite markers  
\*C.S. Oke, R.H. Crozier, R.D. Ward
- 658 4:15 Extraordinary genetic divergence among populations of harpacticoid copepods  
\*A. Rocha-Olivares, J.W. Fleeger, D.W. Foltz
- 659 4:30 Metapopulation extinction by mutational meltdown  
\*K. Higgins, M. Lynch

**SESSION 97 SPECIATION AND CLADOGENESIS****3:30-4:45 RM:H3650**

Chair: Matthew Hare

- 660 3:30 Natural selection and parallel speciation in sympatric sticklebacks  
\*H.D. Rundle, L. Nagel, D. Schlüter
- 661 3:45 Testing equality of speciation and extinction rates in sister groups  
\*J.P. Huelsenbeck, B. Rannala
- 662 4:00 The evolution of reproductive isolation in a diverse genus of fish (*Etheostoma*, family: Percidae)  
T. Mendelson
- 663 4:15 Testing models for the antitropical speciation of dolphins using estimates of ancestral population size  
M.P. Hare
- 664 4:30 CANCELLATION

**SESSION 98 QUANTITATIVE GENETICS****3:30-4:45 RM:MUPC**

Chair: Jeff Blanchard

- 665 3:30 Genetics of niche evolution in *Arabidopsis*  
\*D.A. Stratton
- 666 3:45 Things that make G go hmm: selection, drift and genetic covariance structure  
\*P.C. Phillips
- 667 4:00 Mutational evolvability: the impact of EMS on several fitness-related traits in *Drosophila melanogaster*  
\*A.Y. Tanikawa, H.P. Yang, W.A. Van Voorhies, J.C. Silva, A.S. Kondrashov
- 668 4:15 Artificial mutagenesis as a tool for studying spontaneous mutation  
\*H.P. Yang, A. Tanikawa, W.A. Van Voorhies, J.C. Silva, A.S. Kondrashov
- 669 4:30 The influence of genetic background on the rate of fitness decline in small populations of *Escherichia coli*  
\*J.L. Blanchard, L. Latta, I. Williams, N. Afzali, M. Lynch

**Scientific Program**  
Poster Presentation Schedule

**Wednesday, 23 June****7:00-9:00 Memorial Union****Posters 700 – 724****room: Beefeaters**

- 700 Drip-tips: adaptation or phylogenetic heritage?  
\*K. C. Millam, C. A. Jaramillo
- 701 Hydrodynamic drag model predicts shell allometry in larval heterobranch gastropods and bivalves  
\*R. Cipriani
- 702 Salinity stress and clonal variation in growth and reproduction in a native Iris population  
\*P. A. Van Zandt, S. Mopper
- 703 Verifying contact rate effects on virulence with a game theoretic model  
D.A. Ashlock, \*N.P. Leahy
- 704 Locomotor activity, food consumption, and body composition in house mice selected for high wheel-running activity  
\*J.G. Swallow, T. Garland, Jr., P. Koteja, P.A. Carter
- 705 Alternative mechanisms of non-independent mate choice  
D. F. Westneat, \*A. Walters, T. M. McCarthy, M. I. Hatch, W. K. Hein
- 706 Evolution of the advertisement vocalizations of North American bullfrogs  
\*A. J. Wolf
- 707 Factors affecting habitat choice by burrowing crabs in a Spartina-salt marsh  
A. Bortolus, \*E. Schwindt, O. Iribarne
- 708 Geographic variation in eusociality of the obligately social sweat bee, *Lasioglossum malachurum*  
\*M. H. Richards
- 709 Playing by different rules: evolution of virulence in pathogens that sterilize  
\*K.J. O'Keefe, S.A. Richards, W.G. Wilson
- 710 Do *Wolbachia* influence fecundity in *Nasonia vitripennis*?  
\*S.R. Bordenstein, J.H. Werren
- 711 Floral specialization of bees and persistence in fragmented, temporally variable environments  
\*R.L. Minckley, J.H. Cane
- 712 Host race evolution in the Common Cuckoo  
\*H.L. Gibbs, M.D. Sorenson, K. Marchetti, M.L. de Brooke, N.B. Davies, H. Nakamura
- 713 Incidence of nectar-inhabiting microorganisms (NIM's) in males and females of the plant species *Silene latifolia* (= *Silene alba*)  
\*A.M. Golonka, J. Antonovics

- 714 Nature of the trade-off that underlies ecological character displacement  
 \*R. Repasky
- 715 How to impeach large phylogenies from multiple sources: total-evidence and consensus revisited  
 \*F.-J. Lapointe, J.A.W. Kirsch
- 716 Phylogeny of leeches based on molecular and morphological data  
 \*J.E. Light, K. Apakupakul, M.E. Siddall
- 717 Conservation genetics of common murres (*Uria aalge*) in the Exxon Valdez spill area through a comparison of mitochondrial control region and cytochrome b sequences  
 \*A. Patirana, J. Piatt, V. Friesen
- 718 Population subdivision in a fragmented landscape: microsatellite variation among subpopulations of the puma (*Puma concolor*) in Idaho.  
 \*J.L. Loxterman, M.B. Ptacek
- 719 A model of the growth-differentiation trade-off and its evolutionary implications: uniting the cell with the organism  
 \*J.D. Arendt
- 720 Aspects of the development of melanism in a lady beetle  
 \*T.J. Vess
- 721 Ecological and historical patterns of morphological integration: developmental stability of jaw morphology in *Sorex* shrews.  
 \*A.V. Badyaev, K.R. Foresman
- 722 Evolution of nuclear dimorphism in ciliates: insights from the Suctorianans  
 \*J. L. Riley, L. A. Katz
- 723 Parallelisms and convergences of developmental mode in a genus of marine gastropod  
 \*R. Collin
- 724 Constraints of marsupial forelimb morphology  
 J. Cooper

**Posters 725 – 745****room: Old Madison**

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- 725 BugCamp: Its a kids' life  
 \*Z. Preckwinkle, J. Zimmerman, J. William O. Ballard
- 726 A biogeography and systematics laboratory for non-biology majors  
 \*J.S. McKinnon
- 727 A case approach to developing Darwinian explanations  
 \*S.S. Donovan, J. Rudolph, C. Passmore, \*J.H. Stewart
- 728 A nine-week course in evolutionary biology for high school students (A set of four posters)  
 \*J.H. Stewart, S.S. Donovan, S. Johnson, C. Passmore, J. Rudolph, S. Carpenter
- 729 An example of using data-rich resources to support student inquiry into evolutionary phenomena  
 \*S.S. Donovan, F. Price

- 730 An overview of an evolution course for high school students  
\*J. Rudolph, S.S. Donovan, C. Passmore, J.H. Stewart
- 731 And now for something completely different.... antievolutionism in North America  
\*E.C. Scott and B.J. Alters
- 732 Bee visit and an instructional resource for undergraduates: exploring pollinator contribution to the reproductive success of plants  
\*E. Stanley
- 733 Developing a model of natural selection with high school students  
\*C. Passmore, S. Carpenter, S. Johnson, J. Rudolph, J.H. Stewart
- 734 Evolution: cognition, controversy, misconceptions and pedagogy  
\*C. E. Nelson
- 735 EvolveIT: an on-line educational simulation of the evolution of a quantitative trait  
\*J. Bell
- 736 Hands-on laboratory exercises for introductory and upper-level courses in evolutionary biology  
\*D.M. Rand
- 737 Linking evolution and the nature of science for high school biology teachers  
\*J. Beard, M.K. Nickels, C. E. Nelson
- 738 Molecular evolutionary biology's role in curricular reform: bioinformatic problem-solving to investigate homology, similarity and diversity  
\*J.R. Junck, S. Everse
- 739 Phylogenetic investigator: software for exploring concepts by constructing evolutionary histories  
\*S. Brewer
- 740 Students' concepts of population genetics and evolution  
\*P. Soderberg
- 741 Teaching about evolution - how can university scientists help public school educators?  
\*M. Camara, H. Callahan
- 742 Teaching and learning about evolution  
\*B. J. Alters
- 743 Teaching principles of heritability and plasticity through common garden experiments  
\*J.M. Brown
- 744 Teaching the concepts of genetic diversity and natural selection using hemoglobin variants  
\*C.J. Moore, D.L. Byers
- 745 The case approach from the perspective of students  
\*Monona Grove High School students, S. Johnson

**Posters 746 – 780****room: Main Lounge**

- 746 Estimates of gene flow and genetic variation in a pan-Arctic seabird (Thick-billed Murre, *Uria lomvia*): an application of Coalescence Theory  
 \*M.S. Damus, V.L. Friesen
- 747 Evolution and biogeography of Hawaiian butterflies  
 \*N. Davies, S. Lum-King, G.K. Roderick
- 748 Mangrove fishes of the Thachin estuary, Gulf of Thailand  
 \*S. Premcharoen
- 749 Genetic discontinuity revealed by chloroplast microsatellites  
 \*C.M. Clark, D.M. O'Malley
- 750 Morphometric variation among color morphs of *Labeotropheus fuelleborni* (Ahl 1927)  
 \*M. J. Pauers, K. I. Epps, T. J. Ehlinger
- 751 A comparison of unimodal and bimodal hybrid zones and its implications for speciation  
 C. Jiggins (Haldane's Rule in *Heliconius* butterflies)
- 752 Can weak gene flow stop speciation?  
 \*A. H. Porter, N. A. Johnson
- 753 Conflicting mtDNA and nuclear gene-genealogies suggest extensive hybridization in the Hawaiian cricket genus *Laupala*  
 \*K.L. Shaw
- 754 Self fertilization and frequency dependent pollination success in gynodioecious *Geranium richardsonii*  
 \*C. F. Williams, M. A. Kuchenreuther, A. Drew, K. O'Malley
- 755 Testing models of breeding system evolution with Cryptantha (Boraginaceae).  
 \*T.M. Marushak, I.N. Forseth, C.F. Delwiche
- 756 The quantitative genetic basis and reproductive isolating consequences of mating system divergence in *Arenaria uniflora* (Caryophyllaceae)  
 \*L. Fishman
- 757 A phylogenetic perspective on sequence mutations in microsatellite loci: tests of the stepwise mutation, ascertainment bias, and directionality hypotheses  
 \*Y. Zhu, D.C. Queller, J.E. Strassmann
- 758 A survey of archosaurian intron sizes: physiological correlates and implications for the evolution of genome size  
 \*E. Waltari, S.V. Edwards
- 759 Comparative analysis of intra-individual and inter-species sequence variation in Salmonid rDNA cistrons  
 \*J.D. Hackett, K.M. Reed, R.B. Phillips
- 760 Cross-correlated substitution rates among sites in DNA and protein sequence evolution  
 \*J. Lyons-Weiler

- 761 Evolution of compound microsatellite loci  
\*J.C. Garza, E. Desmarais
- 762 Evolution of subfamilies of the B1 retroposon in *Mus*  
\*T.M. Williams, M.E. Raynor, D.H. Kass
- 763 Evolution of the agouti coat-color gene in the family Felidae (Mammalia, Carnivora)  
\*E. Eizirik, N. Yuhki, L.A. Lyons, W.E. Johnson, S.J. O'Brien
- 764 Evolution of the Myb gene family in plants  
\*E.L. Braun, E. Grotewold
- 765 Intron loss and the evolution of the cytochrome P450-2 family in mammals  
\*N. Chen, S. Whitehead, A. Caillat, A. Cook, S. Hoffman
- 766 Molecular evidence supports the recognition of two cryptic species of killifish: *Fundulus kansae* and *Fundulus zebrinus*  
\*B.R. Kreiser, J.B. Mitton, J.D. Woodling
- 767 Molecular insights into Cumacean phylogeny  
\*P.A. Haye, K. Smith, I. Kornfield
- 768 Molecular phylogeny of Catarrhine Primates as inferred from two unlinked nuclear genes  
\*S.L. Page, M. Goodman
- 769 Molecular phylogeny of the piranhas and their allies (Serrasalminae, Characiformes)  
\*A. Sivasundar, J.I.R. Porto, P. Petry, G. Ortí
- 770 Molecular phylogeny of the short-tailed shrews (Blarina)  
\*S. V. Brant, R. A. Benedict, H. H. Genoways, G. Ortí
- 771 Phylogenetic and population genetic studies of the minnow species of the Sacramento River using RAPDs and mitochondrial DNA sequences  
\*M.A. Kanaan, R. Loggins, J. Bell
- 772 Phylogenetic relationships and the origin of parthenogenesis in lizards of genus *Leposoma* (Gymnophthalmidae) from Amazonia and Atlantic forests: preliminary results from mitochondrial sequences  
\*K. C. Pellegrino, D. J. Harris, M. T. Rodrigues, J.W. Sites Jr.
- 773 Phylogenetic relationships of the order Insectivora based on sequences from mitochondria  
G. Emerson
- 774 Phylogenetic relationships within the *Rhagoletis pomonella* (Diptera: Tephritidae) species group  
\*V. Gavrilovic, G.L. Bush, J.L. Feder, J.J. Smith
- 775 Phylogenies of the autotetraploid salmonid fishes based on sequences of rDNA spacers and growth hormone introns  
\*R. Phillips, S. McKay, M. Matsuoka, N. Konkol
- 776 Phylogeny of South American Rhagoletis  
\*M. Jaycox, J.J. Smith, D. Frias, G. Bush

Relationships of Caviomorph rodents: Does behavior contain phylogenetic information?

\*D.L. Rowe, R.L. Honeycutt, T.E. Lacher Jr.

Systematics of North American Silene and the Caryophyllaceae: two loci at two levels

\*J.G. Burleigh, T. Plume, T.P. Holtsford

The mitochondrial genome of *Priapulus caudatus* and its phylogenetic implications

\*L.A. Rosenberg, J.L. Boore, W.M. Brown

The phylogenetic potential of the entire nuclear large-subunit rDNA gene in Daphniidae (Crustacea)

\*A.R. Omilian, D.J. Taylor

**Posters 781 – 808**

**room: Tripp Commons**

Age of an allele, using both DNA and electrophoretic data

\*R. Thomson

Allozyme heterozygosity and growth of interpopulational vs. interspecific hybrids in the earthworm *Eisenia* sp.

\*T.C. McElroy, W.J. Diehl

Clusters of identical new mutations can reduce the cost of natural selection

\*R.C. Woodruff, H. Huai

Contrasting patterns of Mhc and microsatellite diversity in social and solitary Tuco-tucos [Rodentia]

\*T.M. Hambuch, E.A. Lacey

Demography of *Arabidopsis thaliana*

Eli A. Stahl, Joy Bergelson

Estimating mutation rate in the presence of clusters

\*Y. X. Fu, H. Y. Huai

EVE: a new package of phylogenetic estimators for variable environments

\*D.A. Vasco, Y.-X. Fu

Evolution of pheromone communication: effects of genetic variation

\*B.G. Spohn, K.F. Haynes

Fine-scale genetic population structure of wood frogs (*Rana sylvatica*) inferred from microsatellite markers

\*R. Newman, T. Squire

Gene flow in southwestern populations of *Trimerotropis pallidipennis*

\*A.S. Gerber, G. Davidowitz

Genetic differentiation of Lake Superior lake trout populations: comparison of microsatellite and MHC markers

\*Bullock, Leder, Dorschner, Phillips

Genetic diversity in modern maize inbreds compared to ancestral populations using microsatellite markers

\*J.A. Labate, K.R. Lamkey, J.S.C. Smith, S. Kresovich, S.E. Mitchell, H. Sullivan

- 793 Genetic structure and gene flow among populations of Cerulean warblers (*Dendroica cerulea*): a test of the source-sink model in nature  
\*M.L. Veit, R.J. Robertson, P.B. Hamel, V.L. Friesen
- 794 Genetic variation in introduced populations of the house mouse (*Mus musculus*) in Hawaii  
\*P. Kennedy, M. Nachman
- 795 Allelic dimorphism in a SNP map of *Drosophila melanogaster*  
\*K.C. Teeter, R. Gasperini, G. Gibson
- 796 Evolution of zinc hyperaccumulation in *Cardaminopsis halleri*  
\*S. B. Huitson, M. R. Nacnair
- 797 Maternal and paternal effects on seed and floral traits in *Nemophila menziesii*  
\*C.M. Minott, D.L. Byers
- 798 Microsatellite markers reveal multiple paternity and allow discrimination of maternal and genetic effects on garter snake morphology and behavior  
\*R. B. King, W. B. Milstead, H. L. Gibbs, M. R. Prosser, G. M. Burghardt, G. F. McCracken
- 799 QTL analysis of wing shape variation in *Drosophila melanogaster*  
\*A. Palsson, G. Gibson
- 800 Genetic analysis of complex behaviors using the Quantitative Trait Loci approach: preliminary analyses and future plans  
\*D. Price, D. Culter, B. Flesher, C. Grill, H. Lang, E. Laloulu, S. Moore, D. Ratay, J. Viernes
- 801 A possible non-sexual origin of the mate preference for orange coloration in guppies  
\*H. Rodd, K. Hughes, G. Grether, C. Baril
- 802 Dietary carotenoid content, food quality, and sexually dimorphic coloration in female convict cichlids (*Cichlasoma nigrofasciatum*)  
\*J. K. Jackson, T.K. Lloyd, A.L. Brown
- 803 Post-copulatory sexual selection in poeciliid fish  
\*A. S. Aspbury, A. L. Basolo
- 804 The ontogeny of sexual dimorphism: a comparative analysis  
\*K. Gaetke, V.N. Rush, R. C. Sargent
- 805 Competition between resistant and susceptible genotypes of *Arabidopsis* under various herbivory regimes  
\*H. G. Medina, A. E. Weis
- 806 Host plant selection in a guild of cactus-specialist bees: pollen preferences of females foraging for larval provisions  
\*M. E. McIntosh
- 807 Spatial and temporal variation in frequency and density of fungal pseudoflowers and co-flowering hosts: consequences for fitness  
\*M. Pfunder
- 808 The effects of habitat alteration on nest predation dynamics  
\*A.J. Keyser, G.E. Hill, E. Soehren

**Thursday, 24 June****7:00-9:00 Memorial Union****Posters 809 – 832****room: Old Madison**

- 809 Accumulating germ-line mutations alter the age-specific mutation load  
\*D.K. Price, T. F. Hansen
- 810 Colony fitness through male function in the harvester ant, *Pogonomyrmex occidentalis*  
\*B. J. Cole, D. C. Wiernasz
- 811 Demographic consequences of life-history variation in nature: lessons from garter snakes and guppies  
\*A.M. Bronikowski, S.J. Arnold, D.N. Reznick, W.R. Clark
- 812 Growth dynamic of an invasive reef building polychaete  
\*E. Schwindt, O. Iribarne
- 813 Mother knows best: maternal control of offspring life history.  
\*N.K. Priest, D. E. L. Promislow
- 814 The effect of photoperiod on size at emergence in mayflies.  
\*M. Tseng
- 815 A molecular systematics approach to the biogeography and diversification of rhinolophid and hipposiderid bats  
\*A. Guillen-Servent, R. E. Ricklefs
- 816 A phylogenetic analysis of the Ophiolepididae (Echinodermata: Ophiuroidea) with an evaluation of the origin of its deep-sea members  
\*S.I. Hottenrott
- 817 Biogeography and systematics of Metrosideros Banks ex Gaertn. subgenus Metrosideros through the Pacific  
\*S. O. Grose, S. Wright, R. Gardener, C. W. Morden
- 818 Comparative avian phylogeography of Cameroon and Equatorial Guinea mountains  
\*T. B. Smith, D. Girman, K. O'Keefe, B. Larison
- 819 Earthworms as biogeographical indicator organisms: a test case in the Lesser Antilles and application to the geological history of the Greater Antilles  
\*S.W. James
- 820 Historical biogeography of the *Drosophila dunni* Subgroup  
\*J. A. Wilder, H. Hollocher
- 821 Isolation and utilization of variable microsatellite loci in Ischnuran damselflies.  
\*B. Grissom, P.T. Chippindale, J.V. Robinson
- 822 Origins and host specificity of legume-feeding psyllids (Psylloidea, Homoptera) in the Canary Islands  
\*D. M. Percy
- 823 Phylogeography of the genus *Iguana* using mtDNA sequence  
\*C. Malone, S. Davis

- 824 Phylogeography of the Tailed Frog (*Ascaphus truei*)  
\*M. K. Nielson, K. Lohman, J. Sullivan
- 825 Spatial distribution of fish meristic, morphometric, and population genetic data and their analysis in a GIS environment  
\*J.R. Ruiz-Caruso
- 826 Demographic effects of a color polymorphism in male mosquitofish (*Gambusia holbrookii*)  
\*L.A. Horth, J.A. Travis
- 827 Evidence of maternal effects on inbreeding depression in fast-cycling *Brassica rapa*  
\*A.J. Bersch, D.M. Waller
- 828 Evolution of photoperiodic time measurement  
\*W. E. Bradshaw, C. M. Holzapfel
- 829 Genetic relationships among insular populations of deer mouse (*Peromyscus maniculatus*): predominant role of water barriers at a microgeographic scale  
\*P.A. Landry, F.J. Lapointe
- 830 Genetic structure and kinship in a philopatric arctic seabird  
\*G. Ibarguchi, A.J. Gaston, P.T. Boag, V.L. Friesen
- 831 Sex ratios bias and gender-specific clonal structure in the brittle star *Ophiactis savignyi*  
\*T. M. McGovern
- 832 Temporal dynamics of pathotype resistance and ecotypes during a plant-pathogen epidemic  
\*L.J. Perry, L.A. Real

### Posters 833 – 857

room: Main Lounge

- 833 Comparative analysis of sex-linked markers in salmonids  
\*J.D. Stein, R.B. Phillips
- 834 Asymmetry of response in tests designed to distinguish between random walks, directed selection and stabilizing selection in fossil lineages  
\*H. D. Sheets, C.E. Mitchell
- 835 Character divergence and reproductive isolation among sympatric, sibling species of salamander: a test of the reinforcement hypothesis  
\*J.L. Marshall
- 836 Cyanogenesis and the evolution of food plant choice by humans  
\*D. A. Jones
- 837 Fertility selection, genetic selection, and evolution  
\*R. B. Campbell
- 838 Geophysiological modeling: new ideas on modeling the evolution of ecosystems  
\*F. Santini

- 839 How many beneficial mutations stop Muller's Ratchet?  
\*L. Loewe, S. Scherer
- 840 Geometric motion analysis  
\*D.E. Slice
- 841 Morphometric analysis of *Triarthrus becki* in the Middle Ordovician of New York, Quebec, and Pennsylvania: testing the Plus ca change model  
\*K. Kim, C.E. Mitchell
- 842 Path analytic analysis of developmental stability in the hispid cotton rat  
\*J. M. Novak, M. H. Smith
- 843 Quantitative trait loci for directional but not fluctuating asymmetry of mandible characters in mice  
\*L.J. Leamy, D. Pomp, E.J. Eisen, J.M. Cheverud
- 844 Origins of Quebec populations of the barnyard grass (*Echinochloa crus-galli* (L.) Beauv.): evidence from RAPD markers and DNA sequences.  
\*S. Roy, J.P. Simon, F.J. Lapointe
- 845 Variation and covariation of plant growth traits within and among arctic plant populations  
\*K.E. Schwaegerle, H. McIntyre
- 846 Wing pattern quantification of endemic Hawaiian Tephritids  
\*B. O'Fallon, J\* Brown
- 847 Zoogeographical patterns among distinctive Malawi Cichlid endemics: microsatellite signatures  
\*P.F. Smith, I.L. Kornfield
- 848 Distribution of *Wolbachia* across a field cricket hybrid zone  
\*M.J. Mandel, C.L. Ross, R.G. Harrison
- 849 CANCELLATION
- 850 ITS polymorphisms as evidence of past hybridization events in the soft coral genus *Alcyonium*  
\*C.S. McFadden, A. Tuan, B. Hadland
- 851 Estimates of inbreeding depression in two populations of the ephemeral pond crustacean, *Eulimnadia texana*  
\*B.R. Crosser, B. Exley, S.C. Weeks, N. Zucker
- 852 Fertilization rates in two populations of the androdioecious ephemeral pond crustacean, *Eulimnadia texana*  
\*J. A. Hutchison, J.A. Kljun, S.C. Weeks, N. Zucker
- 853 On the number of reproductives contributing to a half-sib progeny array  
\*J.A. DeWoody, Y.D. DeWoody, A.C. Fiumera, J.C. Avise
- 854 Pollination, seed predation and flowering phenology in an experimental population of *Silene latifolia*  
\*J.W. Wilcox, T.R. Meagher
- 855 Fitness in a gynodioecious population: variation among sexual morphs and among families  
\*M. F. Bailey

- 856 Molecular genetic mapping of genes of reproductive isolation between *Drosophila melanogaster* and *D. simulans*  
 \*K. Sawamura, C.-I Wu, M-T. Yamamoto
- 857 The digital genome project: simulations of the evolution of coadapted gene complexes and the consequences of their disruption  
 \*S. Edmands, C.C. Timmerman

**Posters 858 – 892****room: Great Hall**

- 858 Investigation of retroposons in the bat genome  
 \*S.W. Murray, D.H. Kass
- 859 MHC variation and evolution in the Little Greenbul (*Andropadus virens*)  
 \*A. Aguilar, S. V. Edwards, T. B. Smith, R. K. Wayne
- 860 Mitochondrial DNA sequence variation in *Anopheles dirus*  
 C. Walton, J. Handley, \*R. K. Butlin
- 861 Molecular evolution of doublesex in the *Drosophila melanogaster* subgroup  
 \*R.J. Kulathinal, R.S. Singh
- 862 Quantifying the lenght dependence of microsatellite mutation rates in *E. coli*  
 \*M. Imhof, C. Schloetterer
- 863 The kinetics of DNA transposable element autoregulation  
 \*J.P. Townsend, D.L. Hartl
- 864 Unusual evolution of mitochondrial RNA gene sequences in spiders (Salticidae: Habronattus)  
 \*S. Masta
- 865 A new species of salamander from the Cumberland Plateau of Tennessee  
 \*J.A. Anderson, S.G. Tilley
- 866 Cichlid phylogeny: total evidence analysis and molecular rate heterogeneity among taxa  
 \*I.P. Farias, A. Meyer, G. OrtÃ
- 867 Comparison of Arctic charr-Dolly Varden phylogenies based on mtDNA RFLPs, microsatellite loci, and DNA sequences  
 \*E.H. Leder, R.B. Phillips
- 868 Complete coding sequence of the Alligator c-myc gene: phylogenetic implications  
 \*A. Mitchell, M.J. Braun
- 869 Convergent evolution detected in pied woodpeckers (genus: *Picoides*) resulting from systematic revision  
 \*A.C. Weibel, W.S. Moore
- 870 Evolution of nuclear and mtDNA in the *Rana catesbeiana* species group  
 \*A. J. Wolf, W. M. Brown
- 871 Evolutionary history and biogeography of the damselfly genus *Ischnura*  
 \*J. Morgan, J.V. Robinson, P.T. Chippindale

- 872 Intrageneric phylogeny, sectional classification, and breeding system evolution in *Primula*: a preliminary study  
\*E. Suring, E. Conti, D. Boyd, S. Kelso
- 873 Microsatellite inferences from the Felidae  
\*C.A. Driscoll, S.J. O'Brien
- 874 Mitochondrial ribosomal sequences coupled with fossil evidence support a rapid radiation of aphid tribes in the Cretaceous  
\*C.D. von Dohlen, N.A. Moran
- 875 Molecular evidence for multiple origins of endemic Inuleae (Asteraceae) from the Macaronesian Archipelagos.  
\*J.P. Mower, S. Park, J. Francisco-Ortega, A. Santos-Guerra, R.K. Jansen
- 876 Molecular evidence for the position of Takhtajania in the Winteraceae  
\*E.A. Zimmer, K.G. Karol, Y. Suh and G. Schatz
- 877 Alternative social strategies in a euglossine bee: tradeoffs for solitary and group nesting  
\*S.L. Soucy, T. Giray, D.W. Roubik
- 878 Crabs affecting sexual reproduction of the cordgrass *Spartina densiflora*  
\*A. Bortolus, O. Iribarne
- 879 Describing the evolution of reaction norm shape: body pigmentation in *Drosophila*  
\*P. Gibert, B. Moreteau, J. R. David, S. M. Scheiner
- 880 Deviations from expected height-diameter isometry in *Trillium grandiflorum*  
\*T. P. Rooney, J. C. Steven, O. D. Boyle
- 881 Influence of temperature on reproductive rate in *C. elegans*: r vs. Ro  
\*P.C. Phillips, B.L. Armstrong, C.P. Coucke, R.B. Huey
- 882 Parental environmental effects in *Arabidopsis thaliana*: effects of elevated temperature and CO<sub>2</sub> on offspring phenotype  
\*E. P. Lacey, J. Ward
- 883 Selection for light-mediated phenotypic plasticity in *Arabidopsis thaliana*  
\*H. S. Callahan
- 884 Endosymbiont community transmission in pea aphid  
\*T.E. Leonardo
- 885 Natural selection in the entire primate immunodeficiency virus genome  
\*W.J. Diehl, C.R. Cooper, K. S. Coats
- 886 Phylogenetic analysis of colony queen number in the termite genus *Nasutitermes*  
\*L. Atkinson
- 887 Phylogenetic analysis of cooperative breeding in the Class Aves  
\*V. Shafer, B. Burt

- 888 Phylogeny of conifer feeding bark beetles in the subfamily Hylesininae (Coleoptera: Scolytidae)  
 \*A. S. Sequeira, B. B. Normark, B. D. Farrell
- 889 Sexual size dimorphism and its effect on the evolution of chemical defense in tiger beetles  
 \*K. C. Kelley, T. Parchman
- 890 A simulated look at the decay index  
 \*R. W. DeBry
- 891 Why do only "bad" trees (or "bad" data sets) have multiple likelihood maxima?  
 \*J.S. Rogers
- 892 Wide phylogenetic diversity of heterotrophic microbes associated with the marine sponge genus, Discodermia  
 \*J.V. Lopez, P.J. McCarthy, K.E. Janda, R. Willoughby, S.A. Pomponi

**Posters 893 – 916****room: Beefeaters**

- 893 Genetic differentiation in *Drosophila ruberrima* populations: results from chromosomal inversions, allozymes, and mitochondrial DNA  
 \*S. Fang, F.J. Lin, H.C. Chou, H. Chang
- 894 Genetic variation in the Largemouth bass (*Micropterus salmoides*) from stocked and unstocked lakes in South Carolina  
 \*R. A. Thum, T. C. Glenn
- 895 Geographic range expansion and population differentiation: simulations of European starlings.  
 \*P. R. Cabe
- 896 Global population structure of the human commensal *Candida albicans* as determined by microsatellite loci  
 \*R.E. Fundyga, T.J. Lott, J. Arnold
- 897 Likelihood analysis of population structure using linked diallelic markers  
 \*E.G. Williamson, R. Nielsen, M. Slatkin
- 898 MHC variation and evolution in the Little greenbul (*Andropadus virens*)  
 \*A. Aguilar, R. K. Wayne
- 899 Nucleotide variability at L1cam and G6PD on the human X-chromosome; implications for human origins  
 \*M.A. Saunders, M.F. Hammer, M.W. Nachman
- 900 Nucleotide variability at the Dmd locus in a worldwide sample of humans  
 \*S.L. Crowell, M.W. Nachman
- 901 Phylogeography, host use, and colonization genetics of a cosmopolitan parasitoid wasp  
 \*C. F. Baer, M. Antolin
- 902 Population structure versus population history in *Ambystoma tigrinum*  
 \*E. Valdivia, K. Pointer, P. Hill, E. Routman
- 903 The effect of selection on population differentiation: a case study with HLA  
 \*D. Meyer, G. Thomson

- 904 Assessing natural variation at a single locus affecting chemotaxis in *C. elegans* using complementation testing  
\*J.J. Morphew, P.C. Phillips
- 905 Candidate locus approaches to dissecting genetic architecture: QTL for chemotaxis in *C. elegans*  
\*M. C. Gurganus, P. C. Phillips
- 906 Mapping QTLs for average effect in half-sib families of loblolly pine  
\*D. M. O'Malley, R. Wu, B.C. Lee, J. Vasquez, D.L. Remington, S.E. McKeand
- 907 Quantitative genetics of lifespan in *D. melanogaster*: effects of genetic background and larval density  
\*J. Leips, T.F.C. Mackay
- 908 Estimation of effective population size at different depths in the evolutionary history of the auklets: a test of founder effect speciation using neutral and non-neutral loci  
\*H. E. Walsh, V. L. Friesen
- 909 Genetic and molecular analysis of body color as it relates to speciation patterns in Caribbean *Drosophila*  
\*H. Hollocher, E. Dyreson
- 910 Mate choice, sex determination and sympatric speciation: a simulation study  
\*D. Promislow, D.L. Hoyt
- 911 Molecular, genetic, and cytological evidence for ancestral inversion polymorphism in the Apple Maggot Fly, *Rhagoletis pomonella*  
\*J.B. Roethle, S. Berlocher, J.L. Feder
- 912 Possible cases of allopolyploid speciation in the Geum group (Rosaceae) - Implications from phylogenies based on morphology and ITS  
\*J.E. Smedmark, T. Eriksson
- 913 Three species of Blepharoneura (Tephritidae) on a single species of host plant  
J. Romashko, \*M. Condon, D. Pumo
- 914 Two examples of reproductive character displacement in five West Australian frogs: is reproductive character displacement rare?  
\*J. D. Roberts
- 915 Differentiation and speciation in the butterfly genus *Lycaeides* in North America  
\*N. Anthony, C. Nice, G. Gelembiuk, D. Ganser, R. French-Constant
- 916 Phylogeny of the Baeini (Hymenoptera: Scelionidae): parasitoids of spider eggs  
\*A.D. Austin, M. Iqbal

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# Downtown Madison

## KEY

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1. Wisconsin Veterans' Museum
  2. Memorial Union
  3. State Historical Museum
  4. Madison Art Center
  5. Concourse Hotel
  6. Elvehjem Museum
  7. Inn On The Park
  8. State Historical Library

