



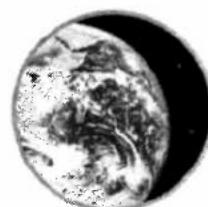
CALIFORNIA STATE UNIVERSITY, CHICO
JUNE 20-24, 2003

evolution

2003



Joint Meeting of the
Society for the Study of Evolution,
Society of Systematic Biologists,
and American Society of Naturalists



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► WELCOME TO EVOLUTION 2003: JOINT MEETING OF SSE / SSB / ASN

June 19, 2003

Dear Participants of "Evolution 2003:"

I am delighted to welcome you to California State University, Chico, one of the oldest post-secondary institutions in California and one of the very best among the twenty-three campus California State University system.

CSU, Chico, founded in 1887, has built a foundation of excellence for well over a century in teaching, scholarship, research, and service to the citizens of Northern California and throughout the state and nation.

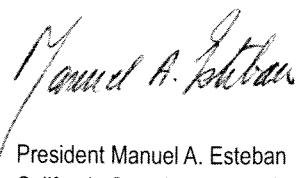
I encourage you to explore our campus and community to discover more about us: our impressive reputation which has led employers to recruit here more actively than at most universities in the western United States; the natural beauty of a creek rushing down from the Sierra Nevada, running through several miles of Bidwell Park, and winding through the Chico State campus; our recognition as a rigorous institution, reflected in the awards and prizes our faculty, staff, and students have won for scholastic achievement; our graduation rate, which is one of the highest in the California State University system; and our dedication to providing the very best academic learning possible.

Our accomplished faculty, high-achieving students, and caring, nurturing staff—along with the rural beauty and rich environment—all contribute to our commitment to learning and to making CSU, Chico the very best place to be.

Downtown Chico is the hub of the City of Chico and has charm, many historic buildings, and is located next to the campus so you can easily enjoy the scenery, the wonderful restaurants, and shops. Bidwell Park, which begins on campus, extends eastward for 11 miles, and encompasses 3600 acres, is the jewel of the City and is very conducive to walking, biking, and swimming.

I hope your scientific meetings are a success and that you have the opportunity to enjoy the environs of Chico while you are visiting us.

Sincerely,



President Manuel A. Esteban
California State University, Chico

Welcome

Local Meeting Organization

Evolution 2003 Co-Chairs: Kristina Schierenbeck and Roger Lederer; Department of Biological Sciences, California State University, Chico

Academic program: Kristina Schierenbeck

Conference administration: CSU, Chico Center for Regional and Continuing Education

CSU, Chico logistical support: University Housing and Food Services, Facilities Management Services, Instructional Media Center, University Police, and Associated Students Conference Services.

Food and drink: Associated Students Catering and JB's Beverage & Bar Service.

The Evolution of Virulence Symposium: Organized by Dr. Michele Nishiguchi, New Mexico State University. Sponsored by the Society for the Study of Evolution.

The Ecology and Evolution of Infectious Disease in Natural Populations Symposium: Organized by Drew Harvell, Cornell University. Sponsored by the American Society of Naturalists.

The Sexual Conflict Symposium: Organized by Dr. Rhonda R. Snook, University of Sheffield. Sponsored by the Society for the Study of Evolution.

The Phylogenetic Supertrees Symposium: Sponsored by the Society of Systematic Biologists.

The Education Symposium: Organized by the Education Committee of the SSE.

Sponsors

The organizers gratefully acknowledge the financial support of The Society for the Study of Evolution, the American Society of Naturalists, and the Society of Systematic Biologists.

► GENERAL CONFERENCE INFORMATION

Registration

Conference registration is available in the lobby of the Bell Memorial Union (BMU) Auditorium. The registration desk will be open 7:30am-5pm daily.

Registration fees include the conference program, continental breakfast, morning and afternoon breaks each day of the conference, the opening reception, poster session receptions, the conference picnic, and an evening dance in the Rose Garden.

Meals

Continental breakfast is served daily from 7:30am-10am in the Bell Memorial Union Atrium, adjacent to the Auditorium.

Lunch is "on your own." Downtown Chico offers a great selection of restaurants within a short walk from campus. The Garden Café, located on campus in the BMU, will be open on weekdays and provides a wide variety of quick and affordable lunch options. In addition, University Food Service will offer a special weekend lunch for conference participants.

Dinner is "on your own" with the exception of the Sunday evening picnic and the closing Awards Banquet (open to ticket holders only). A guide to restaurants is included in this program, and a Chico Visitor's Guide, for additional information about dining options, is included with conference materials.

Participants staying on campus may purchase meal tickets from University Housing at check-in.

Special Events

Please wear your name badge to all conference events. Guests may secure special badges and tickets to events at the registration desk.

Conference events are catered by the Associated Student's Catering Services. Beverage selections feature Peet's Coffee, Chico's own Sierra Nevada and Butte Creek microbrews, and wines selected from various California wineries.

Friday, June 20

– Opening Reception on the Kendall Lawn 6-9pm
Join us between 6-9pm for the opening reception for Evolution 2003. The reception will be held on the lawn in front of Kendall Hall, the university's administrative headquarters. The reception is open to all conference participants and their guests.

Saturday, June 21

– Poster Session Reception
Bell Memorial Union Auditorium 7-9pm
Poster presenters will be on hand for this special reception to recognize their contributed research. Beverages and hors'douerves will be served in the BMU Plaza and the Auditorium. The reception is open to all conference participants.

Sunday, June 22

– Poster Session Reception
Bell Memorial Union (BMU) Auditorium 1-5pm

Sunday, June 22

– Undergraduate Diversity Poster Session Reception,
Bell Memorial Union (BMU) Auditorium 5-6pm
Celebrate diversity and support the students.

Sunday, June 22

– Picnic Supper 6-9pm
Enjoy the beauty of the Chico campus and a traditional summer barbecue, complete with recreational activities, walking tours, bluegrass music, and fine food and drink. The picnic is included in the conference registration fee; guest passes for the picnic (\$10 each) may be purchased at the registration desk.

Monday, June 23

– Rose Garden Dance Party 7-10pm
The Greg Scott Band, one of Chico's favorite dance bands, will perform by the Rose Garden. Relax with your colleagues and enjoy a drink and great music.

Tuesday, June 24

– Awards Banquet
Bell Memorial Union (BMU) Auditorium 6-9pm
Open to banquet ticket holders only, the Awards Banquet will begin with a reception on the BMU Plaza, followed by dinner and the awards ceremony in the BMU Auditorium. A limited number of banquet tickets may be available for purchase at the registration desk.

GENERAL CONFERENCE INFORMATION ▲

Note to Session Moderators

A few minutes prior to the beginning of the session, confirm the speakers are present and explain to speakers the importance of adhering to the published session schedule. Because we have concurrent sessions, attendees will plan their schedule accordingly. In the event a speaker is not present, offer a break and continue the schedule as shown in the program. Please signal the speakers at 12, 13, and 14 minutes. At 15 minutes, the speaker should be asked to leave the podium.

Notice to Session Speakers

Please check the schedule to reconfirm the session and time of your talk, as minor changes in the sessions and time of your talk may have been made since the preliminary program was posted on the Web. All speakers are advised to meet with their session moderators in the session room at least 10 minutes before the session. The 15 minutes you are allotted includes both the presentation and question periods; please do not exceed this time limit. The moderator will signal you at 12, 13, and 14 minutes. At 15 minutes, you will be asked to leave the podium.

We will provide a computer and LCD projector in each session and symposium room. Please bring your presentation on a CD-ROM that is compatible with the Windows 2000 operating system and PowerPoint 2000. Computers are available for previewing your presentation pages.

Poster Presenters

Each poster has been assigned a number corresponding to a reserved space in the Bell Memorial Union (BMU). Each poster will be allotted a 4' x 4' space. Please tack up your poster in the proper space between 8am and 4pm on Friday, June 20, or between 8am and noon on Saturday, June 21. Posters should remain up through Sunday evening and must be removed before 5pm on Monday, June 23. Poster authors are required to stand by their posters during one of the main poster-viewing sessions held Saturday 6pm–9pm and Sunday 1pm–5pm. Refreshments will be served during both poster sessions to encourage poster viewing and participation.

Emergency Numbers

University Police:
9-911 or 171 from campus phones

24-hour University Police
non-emergency service:
530-898-5372

Chico Police Department:
911 or 530-895-4911

Chico Police Department (non-emergency):
530-895-4981

Enloe Medical Center:
530-332-7300

Enloe PromptCare:
530-442-4111 or 530-332-6850

Continuing Education Office:
530-898-6105 (weekdays)

Conference Administration
Emergency Contact:
Clare Roby 530-518-3655

Computer Access

Conference participants may use the following computer labs to review presentations and check e-mail:

Meriam Library
MLIB 450–4th floor
Monday and Tuesday
8am–7:45pm

Bell Memorial Union (BMU)
lower level
Saturday and Sunday
8am–5pm

Bell Memorial Union (BMU)
room 301
Monday and Tuesday
10am–3pm

Colusa Hall
room 124
Saturday and Sunday
8am–3pm

Limited computer access will also be available at the registration desk in the BMU Auditorium lobby Saturday-Tuesday, 7:30am–5pm daily.

Logistical Support and Conference Staff

Continuing Education staff will be available throughout the conference to provide any assistance needed. Room 107 in the Center for Regional and Continuing Education will be available throughout the conference as a presenter ready-room and to provide logistical support and miscellaneous business-related support needs. If you need additional assistance at any time during the conference, please check with the conference staff at the registration desk or in the Continuing Education building, located in the center of campus.

Message Board

A message board will be available in the lobby of the Bell Memorial Union (BMU) Auditorium.

T-Shirts

Conference t-shirts are available for purchase in the lobby of the Bell Memorial Union (BMU).

► GENERAL CONFERENCE INFORMATION: EXHIBITORS & BOOK PUBLISHERS

Exhibitors & Book Publishers

Exhibits

Schedule and Locations

Saturday, June 21	8am-5pm	Bell Memorial Union (BMU) Auditorium
Sunday, June 22	8am-5pm	Bell Memorial Union (BMU) Auditorium
Monday, June 23	8am-5pm	Bell Memorial Union (BMU) Auditorium
Tuesday, June 24	8am-3pm	Bell Memorial Union (BMU) Atrium

Academia Book Exhibits organizes and arranges multi-publisher book and journal displays at professional and scientific meetings.

► www.acadbkex.com

Blackwell Publishing is a leading international publisher in the areas of science and medicine. Please stop by our booth for complimentary copies of our journals and visit our Web site for information about all of our publications.

► www.blackwellpublishing.com

Dragonfly Glass offers handcrafted and biologist approved arthropods in stained and fused glass. Commissions and special orders are welcome. Imagine your favorite insect in glass!

► www.dragonflyglass.biz

Elsevier Science has become the undisputed market leader in the publication and dissemination of literature covering the broad spectrum of scientific endeavors.

► www.elsevier.com

Harvard University Press publishes in natural history, organic and evolutionary biology, evolutionary developmental biology, primatology and paleoanthropology, brain evolution, human genetics, and science and society. Stop by the Harvard University Press booth to see new and forthcoming titles by Antoine Danchin, Frans DeWaal and Peter Tyack; Brian Hall and Wendy Olson; Evelyn Fox Keller; Michael Ruse; and Gilbert Waldbauer.

► www.hup.harvard.edu

The Johns Hopkins University Press publishes scholarly books including Phenotypic Plasticity by Massimo Pigliucci and Lizard Social Behavior by Stanley F. Fox.

► www.jhupbooks.com

The National Center for Science Education is dedicated to defending the teaching of evolution in the public schools. We are a nationally recognized clearinghouse for information and advice to keep evolution in the science classroom and "scientific creationism" out. NCSE is the only national organization that specializes in this issue. When teachers, parents, school boards, the press, and others need information and help, they turn to NCSE.

► www.ncseweb.org

Oxford University Press publishes a wide range of outstanding works in evolution, with Readers of the Book of Life (Markos), Developmental Plasticity and Evolution (West-Eberhard), Developmental Instability (Polak), Evolutionary Dynamics (Crutchfield), and Modeling Extinction (Newman). These and other titles are on display at our booth, along with many sample Oxford Journals. Please stop by for a 20% meeting discount.

► www.oup-usa.org

Prentice Hall is a leading educational publisher committed to providing quality resources for faculty and students. We invite you to stop by our booth to see our exciting new publications, innovative technology, and learn how we can help you provide the best information for your students.

► www.prenhall.com

Sinauer Associates, Inc. publishes college-level textbooks and educational multimedia in biology, psychology, neuroscience, and allied disciplines. Stop by our booth to see new publications by Felsenstein, Pigliucci, and Gilbert.

► www.sinauer.com

Taylor & Francis Inc. is proud to publish Systematic Biology, the official Journal of the Society of Systematic Biologists. Stop by our booth during the meeting or visit our Web site anytime to learn more about our Books and Journals Programs.

► www.taylorandfrancis.com

The University of Chicago Press is a publisher of scholarly books and journals.

► www.press.uchicago.edu

EVENT SCHEDULE: FRIDAY, JUNE 20 ▶

► Friday, June 20

7:30am-5pm	Registration	Bell Memorial Union (BMU) Auditorium
12-2pm	Joint council meeting (SSE/SSB/ASN)	Bell Memorial Union (BMU), room 209
8am-5pm	Poster/Exhibitor Set-up	Bell Memorial Union (BMU) Auditorium
3-5pm	Individual Council Meetings	SSB—Bell Memorial Union (BMU), room 208 SSE—Bell Memorial Union (BMU), room 210 ASN—Bell Memorial Union (BMU), room 211
6-9pm	Opening Reception	Kendall Hall Lawn Area

Notes:

► **EVENT SCHEDULE: SATURDAY, JUNE 21**

► **Saturday, June 21**

7:30-10am	Coffee and Pastries	Bell Memorial Union (BMU) Atrium
7:30am-5pm	Registration	Bell Memorial Union (BMU) Auditorium

Saturday Morning: Oral Presentations, 8-10am

1a	Phylogeography/Geographic Variation – Arthropods/Molluscs	Holt 170
1b	Phylogeography/Geographic Variation – Mollusks/Other	Performing Arts Center (PAC) 144
1c	Biogeography/Geographic Variation – Plants	Performing Arts Center (PAC) 134
1d	Biogeography/Geographic Variation – Vertebrates I.	Ayres 120
1e	Character Evolution	Ayres 106
1f	Coevolution	Kendall 207/209
1g	Symposium – The Evolution of Virulence	Laxson Auditorium

10-10:30am—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Saturday Morning Oral Presentations, 10:30am-12:00pm

2a	Combined Data, Systematics I.	Performing Arts Center (PAC) 144
2b	Conservation Biology I.	Holt 170
2c	Development and Evolution I.	Performing Arts Center (PAC) 134
2d	Biogeography/Geographic Variation – Vertebrates II.	Ayres 120
2e	Evolution of Behavior I.	Ayres 106
2f	Evolution of Host-Parasite Interactions I.	Kendall 207/209
2g	Symposium – The Evolution of Virulence	Laxson Auditorium

12:00-1:15pm—Lunch

12:00-1:15pm—Associate Editors Meetings

Locations: SSB—Bell Memorial Union, room 208; SSE—Bell Memorial Union, room 210; ASN—Bell Memorial Union, room 211

Saturday Afternoon: Oral Presentations, 1:15-3:00pm

3a	Combined Data, Systematics II.	Performing Arts Center (PAC) 144
3b	Conservation Biology II.	Holt 170
3c	Development And Evolution II.	Performing Arts Center (PAC) 134
3d	Evolution of Sex	Ayres 120
3e	Evolution of Behavior II.	Ayres 106
3f	Evolution of Host-Parasite Interactions II.	Kendall 207/209
3g	Symposium – Ecology and Evolution of Infectious Diseases in Natural Populations	Laxson Auditorium

3:00-3:30pm—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Saturday Afternoon: Oral Presentations, 3:30-5:00pm

4a	Evolutionary Genetics	Performing Arts Center (PAC) 144
4b	Molecular Systematics – Metazoans	Holt 170
4c	Development And Evolution III.	Performing Arts Center (PAC) 134
4d	Evolution of Species Interactions	Ayres 120
4e	Evolution of Behavior III.	Ayres 106
4f	Evolution of Host-Parasite Interactions III.	Kendall 207/209
4g	Symposium – Ecology and Evolution of Infectious Diseases in Natural Populations	Laxson Auditorium

5-6pm—SSB Past President Address: Laxson Auditorium

Dr. E. Kellogg; Parallel Genomes, Parallel Evolution & the Development of Grass Morphology

6-7pm—SSB Business Meeting: Laxson Auditorium

7-9pm—Poster Session: Bell Memorial Union (BMU) Auditorium—Refreshments will be served from 7-9pm

► Sunday, June 22

7:30-10am	Coffee and Pastries	Bell Memorial Union (BMU) Foyer
7:30am-5pm	Registration	Bell Memorial Union (BMU) Auditorium

Sunday Morning: Oral Presentations, 8-10am

5a	Development and Evolution – Theory	Performing Arts Center (PAC) 134
5b	Ecological Genetics – Animals	Holt 170
5c	Ecological Genetics – Plants I.	Performing Arts Center (PAC) 144
5d	Evolution of Species Interactions	Ayres 120
5e	Genomics I.	Ayres 106
5f	Hybridization – Animals	Kendall 207/209
5g	Symposium – Phylogenetic Supertrees: Combining Information to Reveal the Tree of Life	Laxson Auditorium

10-10:30am—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Sunday Morning: Oral Presentations, 10:30am-12:00pm

6a	Life History Evolution – Plants	Performing Arts Center (PAC) 134
6b	Speciation – General	Holt 170
6c	Ecological Genetics – Plants II.	Performing Arts Center (PAC) 144
6d	Speciation – Animals I.	Ayres 120
6e	Genomics II.	Ayres 106
6f	Hybridization – Arthropods/Plants	Kendall 207/209
6g	Symposium – Phylogenetic Supertrees: Combining Information to Reveal the Tree of Life	Laxson Auditorium

12-1:15pm—Lunch

12-1:15pm—Individual Society Business Meetings: SSE—Bell Memorial Union, room 209; ASN—Bell Memorial Union, room 208

12-2pm—How to Get a Job in Academia Workshop: Drs. Wolfe and Promislow; Bell Memorial Union (BMU), room 210

1-5pm—Poster Session: Refreshments served, Bell Memorial Union (BMU) Auditorium

Sunday Afternoon: Oral Presentations, 1:15-3pm

7a	Evolutionary Genetics I.	Performing Arts Center (PAC) 134
7b	Molecular Systematics – Plants	Performing Arts Center (PAC) 144
7c	Morphometric Evolution	Ayres 120
7d	Phenotypic Plasticity and G*E	Ayres 106
7e	Phylogenetic Methods/Theory I.	Holt 170
7f	Life History Evolution – Arthropods	Kendall 207/209
7g	Sexual Conflict Symposium	Laxson Auditorium
7h	Life History Evolution/Inbreeding – Plants	Plumas 102

3-3:30pm—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Sunday Afternoon: Oral Presentations, 3:30-5pm

8a	Evolutionary Genetics II.	Ayres 106
8b	Mating/Breeding Systems – Plants	Performing Arts Center (PAC) 134
8c	Molecular Evolution – Theory	Ayres 120
8d	Molecular Systematics – Vertebrates I.	Holt 170
8e	Phylogenetic Methods/Theory II.	Performing Arts Center (PAC) 144
8f	Life History Evolution – Fish	Kendall 207/209
8g	Sexual Conflict Symposium	Laxson Auditorium

5-6pm—Undergraduate Diversity Poster Session and Reception:

Bell Memorial Union (BMU) Auditorium—Sponsored by NSF

6-9pm—Picnic Supper: Alumni Glen, between Holt Hall and Chico Creek

► **EVENT SCHEDULE: MONDAY, JUNE 23**

► **Monday, June 23**

7:30-10am	Coffee and Pastries	Bell Memorial Union (BMU) Foyer
7:30am-5pm	Registration	Bell Memorial Union (BMU) Auditorium

Monday Morning: Oral Presentations, 8-10am

9a	Evolutionary Genetics III.	Performing Arts Center (PAC) 134
9b	Molecular Systematics – Arthropods I.	Performing Arts Center (PAC) 144
9c	Phylogenetic Methods/Theory	Holt 170
9d	Population Genetics – Animals I.	Ayres 106
9e	QTL Studies – Animals/Plants	Ayres 120
9f	Selection Experiments	Kendall 207/209
9g	ASN Young Investigator and SSE Dobzhansky Prize Symposium	Laxson Auditorium

10-10:30am—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Monday Morning: Oral Presentations, 10:30am-12pm

10a	Evolutionary Genetics IV.	Performing Arts Center (PAC) 134
10b	Molecular Systematics – Arthropods II.	Performing Arts Center (PAC) 144
10c	Population Genetics – Plants I.	Ayres 106
10d	Quantitative Genetics – Animals	Ayres 120
10e	Reproductive Isolation – Mechanisms	Holt 170
10f	Sexual Selection – Arthropods	Kendall 207/209
10h	Phylogeography Mammals/Molluscs/Misc.	Plumas 102

12-1:15pm—Lunch

12-1:15pm—NSF Public Information Session: Ayres 120

Monday Afternoon: Oral Presentations, 1:15-3pm

11a	Evolutionary Genetics V.	Performing Arts Center (PAC) 134
11b	Molecular Systematics – Birds	Holt 170
11c	Phylogeny Based Comparative Methods	Performing Arts Center (PAC) 144
11d	Population Genetics – Plants II.	Ayres 106
11e	Population Genetics – Theory I.	Ayres 120
11f	Quantitative Genetics – Plants	Kendall 207/209
11g	Education Symposium – The Added Value of Training in Evolutionary Biology Open to the Public	Laxson Auditorium

3-3:30pm—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Monday Afternoon: Oral Presentations, 3:30-5:00

12a	Evolutionary Genetics VI.	Performing Arts Center (PAC) 134
12b	Molecular Systematics – General	Performing Arts Center (PAC) 144
12c	Phylogeography – Amphibians	Holt 170
12d	Population Genetics – Theory II.	Ayres 106
12e	Sexual Selection – Other	Ayres 120
12f	Speciation – Animals II.	Kendall 207/209
12g	Education Symposium – The Added Value of Training in Evolutionary Biology	Laxson Auditorium

5:30-6:30pm—ASN Presidential Address: Laxson Auditorium, Dr. Dan Simberloff; "Community Ecology: Is It Time to Move On?"

7-10pm—Dance Party: Refreshments served, Rose Garden

► Tuesday, June 24

7:30-10am	Coffee and Pastries	Bell Memorial Union (BMU) Foyer
7:30am-5pm	Registration	Bell Memorial Union (BMU) Auditorium

Tuesday Morning: Oral Presentations, 8-10am

13a	Evolutionary Genetics – Microorganisms I.	Holt 170
13b	Experimental Evolution	Ayres 120
13c	Genome Evolution I.	Ayres 106
13d	Life History Evolution – Vertebrates	Performing Arts Center (PAC) 134
13e	Molecular Systematics – Vertebrates II.	Performing Arts Center (PAC) 144
13f	Phylogeography – Arthropods	Kendall 207/209
13g	Speciation – General	Laxson Auditorium

10-10:30am—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

Tuesday Morning: Oral Presentations, 10:30am-12pm

14a	Evolutionary Genetics – Microorganisms/Nematodes	Holt 170
14b	Experimental Evolution – Microorganisms	Ayres 120
14c	Genome Evolution II.	Ayres 106
14d	Molecular Systematics – Plants	Performing Arts Center (PAC) 144
14e	Population Genetics – Animals II.	Performing Arts Center (PAC) 134
14f	Sexual Selection – Other	Kendall 207/209
14g	Self-incompatibility – Plants	Laxson Auditorium

12-1:15pm—Lunch

Tuesday Afternoon: Oral Presentations, 1:15-3pm

15a	Macroevolution – Animals	Ayres 120
15b	Genome Evolution III.	Ayres 106
15c	Phylogeography – Plants	Performing Arts Center (PAC) 144
15d	Plant-Pollinator Interactions	Holt 170
15e	Population Genetics – Animals III.	Performing Arts Center (PAC) 134
15f	Social Evolution – Arthropods	Kendall 207/209
15g	Plant Reproductive Biology	Laxson Auditorium

3-3:30pm—Break: Laxson Auditorium, Holt 170, Performing Arts Center (PAC)

4-5pm—Undergrad Pep Talk: Plumas 102

Tuesday Afternoon: Oral Presentations, 3:30-5:00

16a	Molecular Systematics – Vertebrates III.	Performing Arts Center (PAC) 144
16b	Social Evolution	Ayres 120
16c	Genome Evolution IV.	Ayres 106
16d	Speciation – Animals III.	Holt 170
16e	Population Genetics – Animals IV.	Performing Arts Center (PAC) 134
16f	Speciation – Plants	Kendall 207/209
16g	Population Genetics – Arthropods	Laxson Auditorium

5-6pm—SSE Presidential Address: Laxson Auditorium, Dr. David Hillis; "The Discovery of Life on Earth"

6-7pm—SSE/SSB/ASN Reception: Bell Memorial Union (BMU) Plaza

7-8pm—SSE/SSB/ASN Banquet: Bell Memorial Union (BMU) Auditorium

8-10pm—SSE/SSB/ASN Awards Ceremony: Bell Memorial Union (BMU) Auditorium

► ORAL PRESENTATIONS: SATURDAY MORNING

Oral Presentations

Session 1a **8-10am, Saturday—Holt 170**
Phylogeography/Geographic Variation – Arthropods/Molluscs (Moderator: Sarah Crews)

- 8:00 Cryptic vicariance on the Baja Peninsula in *Homalonychus* (Araneae, Homalonychidae)
Sarah Cole Crews, Marshal C. Hedin; San Diego State University
- 8:15 Divergence in a harsh world: patterns of microsatellite variation among populations of *Drosophila mojavensis*
Charles I. Ross, Therese Markow; University of Arizona
- 8:30 Non neutral admixture of migrant genotypes in African *Drosophila melanogaster* populations from Zimbabwe
Maximilian Kauer, Daniel Dieringer, Christian Schlötterer; Institute for Animal Breeding and Genetics, University of Veterinary Medicine Vienna
- 8:45 Phenotypic plasticity, season length, and giant female spiders
Linden Elizabeth Higgins; University of Vermont
- 9:00 Thermal heterogeneity across treeline: implications for local adaptation of *Colias meadii* butterflies
Jeannie Ann Stamberger; Stanford University
- 9:15 Evolution of life history strategies in a single patch-type vs. multiple patch-type metapopulation model
Carrie Anne Schwarz, Ottar N. Bjornstad; Pennsylvania State University
- 9:30 Biogeographic history of the North American deserts: coalescent and phylogenetic studies of the longhorn cactus beetles (*Moneilema*) suggests a tertiary, tropical origin
Chris Smith, Brian Farrell; Harvard University
- 9:45 Population structure of Chesapeake Bay oysters: microsatellite analysis and heterozygote deficiency
Colin G. Rose, Kennedy T. Paynter Jr., Matthew P. Hare; University of Maryland

Session 1b **8-10am, Saturday—Performing Arts Center (PAC) 144**
Phylogeography/Geographic Variation – Molluscs/Other (Moderator: Mitch Cruzan)

- 8:00 Genetic diversity of the white-tailed deer, *Odocoileus virginianus*
Michael Howard Smith, Rick Purdue; University of Georgia
- 8:15 Geographic range limits, local adaptation, and temperature tolerance in a marine snail
Sarah Emilay Gilman; University of California, Davis
- 8:30 Phylogeny and phylogeography of *Porites* species
Zac Forsman; University of Houston
- 8:45 The phylogeography of new world patello-gastropods
Warren Brian Simison; University of California, Berkeley
- 9:00 Nested clade analysis of phenotypic associations
Mitch Cruzan, Alisa P. Ramakrishnan, Susan Meyer; Portland State University
- 9:15 Phylogeography of the endemic Philippine fruit bats *Ptenochirus jagori* and *Ptenochirus mino*
Trina E. Roberts; University of Chicago
- 9:30 Evolutionary history of zebra mussel invasions
Gemma May, Greg W. Gelembiuk, Marina L. Orlova, Carol Eunmi Lee; University of Wisconsin
- 9:45 Congruence between molecular and reproductive characters as evidence for cryptic species within the western fanshell, *Cyprogenia aberti* (Bivalvia: Unionidae)
Jeanne Marie Serb, Nathan L. Eckert, M. Christopher Barnhart; University of Alabama

ORAL PRESENTATIONS: SATURDAY MORNING ◀

Session 1c	8-10am, Saturday—Performing Arts Center (PAC) 134 Biogeography/Geographic Variation – Plants	(Moderator: Mark Mort)
	8:00 Comparing clinal variation between native and invasive populations of the California poppy, <i>Eschscholzia californica</i> Elizabeth Anne Leger ; University of California, Davis	
	8:15 Evolution of intercontinental disjunctions between Asia and the New World: Insights from the ginseng plant family Jun Wen ; The Field Museum	
	8:30 Geographic allozyme variation in Atlantic white-cedar, <i>Chamaecyparis thyoides</i> Kristin A Mylecraine, Peter E. Smouse, John E. Kuser, George L. Zimmermann ; Rutgers University	
	8:45 Mutation dynamics in red mangroves: Biogeography and environmental stress affects the rate of albinism Steven Edward Travis, C. Edward Proffitt ; USGS National Wetlands Research Center	
	9:00 Out of Africa: Biogeography of the flowering plant subfamily Cichorioideae (Compositae) Vicki A. Funk, Raymund Chan ; Smithsonian Institution	
	9:15 Old beginnings and new endings in the biogeography of the Vernonieae (Compositae) Sterling C. Keeley, Raymund Chan ; University of Hawaii	
	9:30 Preliminary insights into the phylogeny of <i>Crassula</i> (Crassulaceae); implications for classification and floral evolution Mark E. Mort, Jenny Kay Archibald, Fairfield Kristopher ; University of Kansas	
	9:45 Fitness variation in a natural isogenic swarm. Harold Kerster and Donald Levin ; California State University, Sacramento	
Session 1d	8-10am, Saturday—Ayres 120 Biogeography/Geographic Variation – Vertebrates I.	(Moderator: Joel Cracraft)
	8:00 Disentangling selective factors that act on secondary sexual traits: male coloration in guppies Andrew P. Hendry, Nathan P. Millar, Michael Kinnison, David Reznick ; McGill University	
	8:15 Phylogeography of brook stickleback, <i>Culaea inconstans</i> (Gasterosteidae) Michelle Yvonne Mattern ; University of Toronto	
	8:30 Evolutionary origins of coral reef fish (genus <i>Halichoeres</i>) in the New World: Tethian relict or transpacific colonization? Paul H. Barber, David Bellwood ; Boston University	
	8:45 How birds escaped Armageddon: using phylogenetic history and biogeography to assess the impact of the KT extinction event Joel Cracraft, F. Keith Barker ; American Museum of Natural History	
	9:00 Island arcs, Cenozoic sea level changes and the historical biogeography of the Triacanthodidae (Tetraodontiformes, Teleostei) Francesco Santini ; University of Toronto	
	9:15 Latitude and parasite transmission influence primate disease risk Charles L. Nunn, Sonia M. Altizer, Wes Sechrest ; University of California, Davis	
	9:30 Latitudinal variation in the shape of the species body size distribution: an analysis using freshwater fishes Jason Knouft ; Washington University	
	9:45 Phylogeography of the <i>Etheostoma variatum</i> species group John Francis Switzer ; St. Louis University	
Session 1e	8-10am, Saturday—Ayres 106 Character Evolution	(Moderator: James M. Greenwood-Lee)
	8:00 Evolution in class structured populations James Michael Greenwood-Lee ; University of Toronto	

► ORAL PRESENTATIONS: SATURDAY MORNING

- 8:15 Functional evolution of jaws in Central American cichlids
C. Darrin Hulsey; University of California, Davis
- 8:30 Nutritional ecology of an herbivorous reptile
C. Richard Tracy, K. E. Nussear, T. C. Esque, K. Dean-Bradley, K. T. Castle, L. A. DeFalco; University of Nevada, Reno
- 8:45 Reaction norm evolution and trade-offs during biological invasion events
Carol Eumni Lee, Jane L. Remfert, Greg W. Gelembiuk; University of Wisconsin, Madison
- 9:00 Redundant mapping and the evolutionary dynamics of complex biomechanical traits
Michael Alfaro, Daniel Imara Bolnick, Peter Cam Wainwright; University of California, Davis
- 9:15 Repeated divergence in shoot allometry and functional morphology in contrasting climates
Katherine Angela Preston, David D. Ackerly; Stanford University
- 9:30 The evolution of warning coloration in the common garter snake, *Thamnophis sirtalis*
Michael Frederick Westphal; Oregon State University
- 9:45 The structure of the environment and the evolution of correlated traits
David D. Ackerly, Will K. Cornwell; Stanford University

Session 1f 8-10am, Saturday—Kendall 207/209 Coevolution

(Moderator: Vincent Smith)

- 8:00 Ancient mariners and recent stowaways: the coevolution of seabirds and their lice
Vincent Stuart Smith, Rod Page; University of Glasgow
- 8:15 Aspects of the role female *D. melanogaster* play in sperm competition
Paul D. Mack, Daniel Promislow, Nicholas K. Priest; University of Georgia
- 8:30 Coevolution, inertia and multiple hosts in penguins and their lice
Adrian Mark Paterson, Jonathan Banks; Lincoln University, New Zealand
- 8:45 Community structure and coevolution of helminth parasites in pocket gophers
Hsuan-Wien Chen; Texas A&M University
- 9:00 Cytonuclear coadaptation: fitness consequences of mtDNA introgression from *D. simulans* into *D. melanogaster*
David M. Rand, Robert Arthur Haney, Tim Sackton, Lea Sheldahl; Brown University
- 9:15 Gene flow and the coevolution of parasite range
Mark Kirkpatrick, Scott L. Nuismer; University of Texas
- 9:30 Unexpected lack of *Frankia* sp. strain diversity in root nodules of sympatric populations of actinorhizal Rosaceae and *Ceanothus* (Rhamnaceae)
Brian David Vanden Heuvel, Daniel Potter, David Benson, Esteban Bortiri; University of California, Davis

Session 1g ► SYMPOSIUM, 8-9:45am, Saturday—Laxson Auditorium The Evolution of Virulence (Sponsored by the Society for the Study of Evolution)

- 8:00-8:15 Opening remarks: introduction
Michele K. Nishiguchi; New Mexico State University
- 8:15-8:45 Maintaining the balance between mutualism and pathogenesis: The *Vibrio*-sepiolid squid association
Michele K. Nishiguchi; New Mexico State University
- 8:45-9:15 What's so special about the *Rhizobium*-legume symbiosis?
Ann Hirsch; University of California, Los Angeles
- 9:15-9:45 Putting *E. coli* on a pedestal: the mechanisms of pedestal formation by enteropathogenic and enterohemorrhagic *E. coli*
Rebecca DeVinney; University of Calgary

► Note: Symposium (Session 1g) is continued after the break as Session 2g

ORAL PRESENTATIONS: SATURDAY MORNING ◀

Session 2a 10:30am-12:00pm, Saturday—Performing Arts Center (PAC) 144
Combined Data Systematics I. (Moderator: Annie Lindgren)

- 10:30 A molecular timeline for the origin of photosynthetic eukaryotes
Debashish Bhattacharya, Hwan Su Yoon, Jeremiah Daniel Hackett, Claudia Ciniglia; University of Iowa
- 10:45 Arms and tentacles: what does it all mean? A phylogeny of the Cephalopoda using total evidence
Michele Kiyoko Nishiguchi, Annie Rose Lindgren; New Mexico State University
- 11:00 Evolution of pathogenicity in Vibrionaceae: a combined approach using molecules and physiology
Michele Kiyoko Nishiguchi, Vinod Sankunny Nair; New Mexico State University
- 11:15 Hidden phylogenetic diversity of neotropical treefrogs
John Joseph Wiens, James W. Fetzner, Tod W. Reeder, Chris L. Parkinson, William E. Duellman; State University of New York at Stony Brook
- 11:30 Molecular and morphological systematics of a group of acanthocephalan fish parasites
Michelle Lynn Steinauer, Guillermo Ortí, Brent B. Nickol; University of Nebraska, Lincoln

Session 2b 10:30am-12:00pm, Saturday—Holt 170
Conservation Biology I. (Moderator: Yssa DeWoody)

- 10:30 Diversity and stability in communities structured by asymmetric resource allocation
Yssa Dawn DeWoody, Robert K. Swihart, Bruce A. Craig, Jacob R. Goheen; Purdue University
- 10:45 Evolutionary genetics of native Colorado cutthroat trout: a tail of two slopes
Jessica Lynne Metcalf, Andrew Peter Martin, Jeffry Bond Mitton; University of Colorado
- 11:00 From bet-hedging and sexual selection to the Allee Effect: quantifying the downside of reproductive asynchrony
William F. Fagan, Justin Marco Calabrese; University of Maryland
- 11:15 Gene flow from crops to wild relatives
Ralph Haygood, Anthony R. Ives, David A. Andow; University of Wisconsin, Madison
- 11:30 Lack of host plant association in the biological control agent *Rhinocyllus conicus* inferred from genetic markers
Annie Frances Paradis, Svata Louda, Guillermo Ortí; University of Nebraska
- 11:45 Mitochondrial DNA diversity and population structure of *Podocnemis unifilis* in the Reserva Nacional Pacaya Samiria, in Amazonian Perú: Implications for conservation and biogeography
Tag Nicholas Engstrom, Pekka Soini, Jorge Calvimontes; State University of New York at Stony Brook

Session 2c 10:30am-12:00pm, Saturday—Performing Arts Center (PAC) 134
Development and Evolution I. (Moderator: Matt Rockman)

- 10:30 A phylogenetic approach to the microevolution of gene regulatory networks in primates
Matt Rockman, Greg Wray; Duke University
- 10:45 Character specific heterochrony drives developmental polyphenism in tadpoles of the spadefoot toad *Spea multiplicata*
Brian L. Storz; Florida State University
- 11:00 Current evidence and ideas on the evolutionary origin of bacteriogenic light organs in squids
J. E. Lopez, S. Von Boletzky, M. K. Nishiguchi; New Mexico State University
- 11:15 Developmental genes in sponge larvae: Another tile in the mosaic of the first multicellular animal
Claire M. Larroux, Sally P. Leys, Danielle Liubicich, Bernard M. Degnan; University of Queensland
- 11:30 Directional selection on duplicated teleost hox genes
Gunter P. Wagner, Kazuhiko Takahashi, Chris Amemiya, Frank Ruddle, Jutta Roth, Chi-hua Chiu; Yale University
- 11:45 Diversification of SEPALLATA genes in grasses (Poaceae)
Simon Thomas Malcomber, Elizabeth Kellogg; University of Missouri, St. Louis

► ORAL PRESENTATIONS: SATURDAY MORNING

Session 2d	10:30am-12:00pm, Saturday—Ayres 120 Biogeography/Geographic Variation – Vertebrates II.	(Moderator: Carla Gutiérrez-Rodríguez)
10:30	Phylogeography of the swordtail fish <i>Xiphophorus cortezi</i> Carla Gutiérrez-Rodríguez, Molly Ruth Morris, Matt White ; Ohio University	
10:45	Physiology of geographic variation in life history of the desert lizard, <i>Sauromalus obesus</i> Christopher R. Tracy ; Northern Territory University	
11:00	The consequences of directed versus random movement for biodiversity patterns and speciation processes Paul Robert Armsworth, Joan Roughgarden ; Stanford University	
11:15	The ecological development of Lesser Antillean anole spatial diversity patterns Lauren Beth Buckley, Joan E. Roughgarden ; Stanford University	
11:30	The evolution of brush lizards in Baja California: When mitochondrial DNA and nuclear DNA disagree Johan Lindell, Robert W. Murphy, Fausto R. Méndez-de la Cruz ; University of Toronto	
11:45	Vicariance and dispersal: A novel hypothesis for Baja California biogeography Daniel G. Mulcahy ; Utah State University	
Session 2e	10:30am-12:00pm, Saturday—Ayres 106 Evolution of Behavior I.	(Moderator: Michael J. Justice)
10:30	A comparative study of the color pattern and orientation of birds Michael John Justice, Josephine Tang, Ashley Wilhite, Amy Lefferdink ; Nova Southeastern University	
10:45	Characterizing behavioral evolution and mating Margaret B. Ptacek ; Clemson University	
11:00	Egg recognition and counting reduce fitness costs of avian conspecific brood parasitism Bruce Edward Lyon ; University of California, Santa Cruz	
11:15	Evolution of acoustic sexual signals in rapidly speciating New Zealand cicadas David C. Marshall ; University of Connecticut	
11:30	Evolution of extreme prey specialization in bolas spiders Todd A. Blackledge ; University of California, Riverside	
11:45	Evolution of the skull in response to digging behavior of fossorial rodents Katrina Elizabeth Gobetz ; University of Kansas	
Session 2f	10:30am-12:00pm, Saturday—Kendall 207/209 Evolution of Host-Parasite Interactions I.	(Moderator: Jeff Smith)
10:30	A gene's-eye view of horizontal and vertical transmission Jeff Smith ; Emory University	
10:45	A new group of Cytophaga-like bacterial symbionts affects reproduction in parasitic wasps Steve J. Perlman, S. E. Kelly, M. S. Hunter ; University of Arizona	
11:00	Coevolution of an avian host and its parasitic cuckoo Maria R. Servedio, Russell Lande ; University of North Carolina at Chapel Hill	
11:15	Life cycles shape parasite evolution as shown via comparative population genetics of salmonid trematodes Charles D. Criscione, Michael S. Blouin ; Oregon State University	
11:30	Evolution of adhesins in symbiotic vibrios: implications for host specificity and recognition Michele K. Nishiguchi, Johnette K. Browne-Silva ; New Mexico State University	
11:45	Evolutionary history of <i>C. elegans</i> and interactions with parasites Hinrich Schulenburg ; Institute for Animal Evolution and Ecology, Westphalian Wilhelms–University, Muenster	

ORAL PRESENTATIONS: SATURDAY MORNING / AFTERNOON ◀

Session 2g ► SYMPOSIUM, 10:30am-12pm, Saturday—Laxson Auditorium
The Evolution of Virulence (Sponsored by the Society for the Study of Evolution)

- 10:30-11:00 Combating the viral Red Queen: viral fitness, virulence, and disease progression in HIV
Louis Mansky; Ohio State University
- 11:00-11:30 A molecular view of a biological arms race
Margaret Riley; Yale University
- 11:30-12:00 Sex and the single bacterium—Efficient mechanism of intra and interspecies gene transfer by conjugation
Gayatri Vedantum; Loyola University Chicago Medical School

Session 3a 1:15-3pm, Saturday—Performing Arts Center (PAC) 144
Combined Data Systematics II.

(Moderator: Tandy Jo Warnow)

- 1:15 New techniques for detecting reticulate evolution
Tandy Jo Warnow, Katherine St. John, Ruchi Kalra, Luay Nakhleh, Ruth Timme, Randy Linder; University of Texas at Austin
- 1:30 Systematics of Neotropical erigonine spiders (Araneae: Linyphiidae, Eriigoninae): Are we making progress?
Jeremy Miller, Gustavo Hormiga; Smithsonian Institution
- 2:00 Systematics of Odontocerid caddisflies (Trichoptera): Larval and adult character systems
Aysha Lynn Prather; Royal Ontario Museum

Session 3b 1:15-3pm, Saturday—Holt 170
Conservation Biology II.

(Moderator: Jason Koontz)

- 1:15 One population left: the past, present, and future of the endangered Baker's larkspur (*Delphinium bakeri*)
Jason Ager Koontz, Holly Forbes; Illinois Natural History Survey
- 1:30 Tracing a bottleneck: comparative phylochronology of *C. haigi* and *C. sociabilis* through 7000 years
Elizabeth Anne Hadly, Yvonne Ling-Hsiang Chan, Oliver Pearson; Stanford University
- 1:45 Variance in relative growth rates, phenotypic plasticity and their role in species invasions
Pati Vitt, Bruce Kendall, Jennifer Steinbachs; Chicago Botanic Garden
- 2:00 Zebrafish as a model in conservation genetics: behavioral, morphological, and physiological variation among wild and domesticated strains
Barrie Dennis Robison; Indiana University
- 2:15 Gene flow in fragmented plant populations: an experimental approach
Jerusha Reynolds; University of New Mexico

Session 3c 1:15-3pm, Saturday—Performing Arts Center (PAC) 134
Development and Evolution II.

(Moderator: Jan E. Aagaard)

- 1:15 Duplication and divergence of floral developmental genes in the Lamiales
Jan Erik Aagaard; University of Oregon
- 1:30 Evolution of myosin heavy chain genes in fish
Katrina Louise McGuigan; University of Oregon
- 2:00 Evolutionary significance of the ribosomal DNA intergenic spacer in *Drosophila*
Mariana Mateos, Therese A. Markow; University of Arizona
- 2:15 Maternal effects theory explains the evolutionary divergence of Hox 3 gene duplicates in insects
Jeff Demuth, Michael J. Wade; Indiana University
- 2:30 Sex and population structure in the social amoeba *Dictyostelium discoideum*
Joan Strassmann, Monica Landi, Angelo Fortunato, Lorenzo Santorelli, David C. Queller; Rice University

► ORAL PRESENTATIONS: SATURDAY AFTERNOON

- 2:45 Why do cheaters and victims coexist in *Dictyostelium discoideum*?
Thomas Gene Platt, Kevin Foster, David C. Queller, Joan Strassmann; Rice University

Session 3d 1:15-3pm, Saturday—Ayres 120
Evolution of Sex

(Moderator: Sally Otto)

- 1:15 Evolution goes FAR: possible causes and consequences of fitness-associated recombination
Lilach Hadany, Tuvik Beker; Stanford University
- 1:30 Evolution of facultative parthenogenesis and sex allocation in termites
Kenji Matsuura; Harvard University
- 1:45 Male-killing endosymbionts and the origins of haplodiploidy
Benjamin B. Normark; University of Massachusetts, Amherst
- 2:00 Modes of selection and genetic recombination in *Drosophila*
Charles F. Rodell, Dennis Keenan, Margaret Rocheford; St. Johns University
- 2:15 Phylogenetic analysis of sex-determining mechanisms in amniotes
Fredric J. Janzen, Jim Krenz; Iowa State University
- 2:30 The advantages of segregation and the evolution of sex
Sally Otto, Elie Dolgin; University of British Columbia
- 2:45 The benefit of recombination in complex multi-locus systems
Richard A. Watson, John R. Wakeley; Harvard University

Session 3e 1:15-3pm, Saturday—Ayres 106
Evolution of Behavior II.

(Moderator: Ann Bronikowski)

- 1:15 Gene expression profiles in the brains of mice selected for high voluntary exercise
Anne M. Bronikowski, T. Garland, Jr., J. Rhodes, S. C. Gammie; Iowa State University
- 1:30 Historical biogeography of migration in a tropical kingbird
Isabelle-Anne Bisson, Bridget J. M. Stutchbury, Stephen C. Lougheed; York University, Queen's University
- 1:45 Is behavior rife with homology? Evaluating the level of homoplasy in different types of pelecaniform behavior
Martyn Ross Kennedy; University of Otago
- 2:00 Maternal signatures in the evolution of responses to brood parasitism
David Christopher Lahti; University of Michigan
- 2:15 Measuring the parameters of cultural evolution of chaffinch song by combining spatial simulations with field data
Robert Francis Lachlan; University of North Carolina at Chapel Hill
- 2:30 Selection for behavioral plasticity in bark beetles: reproduction in a spatially and temporally heterogeneous habitat
Che Miguel Elkin, Mary Reid; University of Calgary
- 2:45 Size, space and sound: evolutionary tradeoffs in a lobster communication system
Sheila Patek; University of California, Berkeley

Session 3f 11:15-3pm, Saturday—Kendall 207/209
Evolution of Host-Parasite Interactions II.

(Moderator: Mercedes A. Ebbert)

- 1:15 Fitness and prevalence in woodland *Drosophila* infected with two eukaryotic gut pathogens
Mercedes Ann Ebbert; Miami University
- 1:30 Host defense and body size are determinants of parasite specificity
Kevin Paul Johnson, Dale H. Clayton; Illinois Natural History Survey

ORAL PRESENTATIONS: SATURDAY AFTERNOON ◀

- 1:45 Local adaptation and geographic variation in a host-parasite interaction
Holly Hotchkiss Ganz; University of California, Davis
- 2:00 Mathematical models of the within-host population dynamics and evolution of microparasites of vertebrate hosts
Vitaly V. Ganusov, Carl T. Bergstrom, Rustom Antia; Emory University
- 2:15 MHC, mycoplasma and house finches: A case for balancing selection?
Scott Vernon Edwards, Christopher Michael Hess; University of Washington
- 2:30 Rates of molecular evolution in the fungal symbionts of attine ants
Patrick Abbot; University of Texas
- 2:45 The effect of mutation and selection on the correlation in GC content between the bacteriophage genome and the host genome
Xuhua Xia, Z. Xie, K. Y. Yuen; University of Ottawa

Session 3g ► SYMPOSIUM, 1:15-3pm, Saturday—Laxson Auditorium
Ecology and Evolution of Infectious Disease in Natural Populations
(Sponsored by the American Society of Naturalists)

- 1:15-1:30 Opening remarks: introduction
C. Drew Harvell; Cornell University
- 1:30-2:00 Inducible coral resistance to fungal disease: coloniality and disease
C. Drew Harvell, Kiho Kim, Alisa Alker, Kerri Mullen; Cornell University
- 2:00-2:30 Local adaptation by parasites and host sex in a snail-trematode interaction
Curtis M. Lively, Mark Dybdahl, Jukka Jokela; Indiana University
- 2:30-3:00 Pathogens with multiple host species
Andy Dobson; Princeton University

► Note: Symposium (Session 3g) is continued after the break as Session 4g

Session 4a 3:30-5:30pm, Saturday—Performing Arts Center (PAC) 144
Evolutionary Genetics

(Moderator: Douglas Scofield)

- 3:30 Accumulation of somatic mutation in branches of the tree *Delonix regia*
Douglas Glen Scofield; University of Miami
- 3:45 Allopolyploidy in *Xenopus*: evolution of a duplicated heterodimer
Ben Jonathan Evans; University of Texas at Austin
- 4:00 Coalescent estimation of natural selection: early steps
Mary K. Kuhner, Joe Felsenstein; University of Washington
- 4:15 Comparative mutation accumulation in rhabditid nematodes
Charles Frederick Baer, Michael Lynch; Indiana University
- 4:30 Complex genetic architecture underlies differences between annual and perennial *Mimulus guttatus*
Megan C. Hall, John H. Willis; Duke University
- 4:45 Concerted evolution in duplicate copies of the mtDNA control region in tinamous
Allan J. Baker, Oliver Haddrath; Royal Ontario Museum
- 5:00 The probability of fixation in heterogeneous environments
Michael Whitlock, Richard Gomulkiewicz; University of British Columbia
- 5:15 Accelerated regulatory and protein evolution in duplicated genes
Cristian Castillo-Davis, Dan Hartl, Guillaume Achaz; Harvard University

► ORAL PRESENTATIONS: SATURDAY AFTERNOON

Session 4b	3:30-5pm, Saturday—Holt 170 Molecular Systematics – Metazoans	(Moderator: Yale Passamanec)
3:30	Assessing Lophotrochozoan phylogeny with combined LSU and SSU ribosomal RNA gene sequences Yale Passamanec, Ken Halanych ; Auburn University	
3:45	Combined data set support for acoelomorphs as basal bilaterians Douglas J. Eernisse, Kevin J. Peterson ; California State University, Fullerton	
4:00	Life cycle evolution and systematics of Campanulariid Hydrozoans Annette Frese Govindarajan, F. Boero, K. Halanych ; Woods Hole Oceanographic Institution	
4:15	Molecular phylogenies reveal recurrent evolution of simple-lipped nematodes. Ashleigh B. Smythe, Steven A. Nadler ; University of California, Davis	
Session 4c	3:30-5:30pm, Saturday—Performing Arts Center (PAC) 134 Development and Evolution III.	(Moderator: Elizabeth Friar)
3:30	Molecular evolution of the sex-determining gene <i>Tasselseed2</i> in the grass <i>Bouteloua</i> Elizabeth A. Friar, J. T. Columbus ; Rancho Santa Ana Botanic Garden	
3:45	Morphological integration: developmental basis and evolutionary implications Chris Klingenberg ; University of Manchester	
4:00	Rapid morphological evolution in a polyphenic beetle: developmental mechanisms and ecological causes Armin P. Moczek, H. F. Nijhout ; Center for Insect Science, University of Arizona	
4:15	Temperature and humidity affect sex determination in leopard geckos, <i>Eublepharis macularius</i> Daniel Eric Janes, Marta L. Wayne ; University of Florida	
4:30	The duplication and subfunctionalization of the ZAG1/ZMM2 MADS-box gene in grasses Michael J. Zanis, Robert J. Schmidt, Elizabeth A. Kellogg ; University of Missouri, St. Louis	
4:45	The genetic basis of convergent evolution: armor loss in Alaskan populations of stickleback William Andrew Cresko, A. Amores, K. McGuigan, M. Rothgary, M. Robinson, R. Loda, M. Bell, P. Phillips, C. Kimmel, J. Postlethwait ; University of Oregon	
5:00	Tradeoffs associated with limb regeneration in walking sticks. Tara Lynne Prestholdt ; University of Montana	
5:15	Developmental expression of feather beta keratin: implications for the origins of feathers Roger H. Sawyer, Travis C. Glenn, Loren W. Knapp ; University of South Carolina	
Session 4d	3:30-5pm, Saturday—Ayres 120 Evolution of Species Interactions	(Moderator: Ingrid Parker)
3:30	Competitive interactions and evolution of bacteria in a spatially structured environment Gregory Peter Krukonis, B. J. M. Bohannan, B. Kerr ; Stanford University	
3:45	Does aphid fitness depend on variation in symbionts? Teresa E. Leonardo ; University of California, Davis	
4:00	Evolutionary responses of native species to novel community members: direct and indirect effects of invasion Jennifer Ann Lau ; University of California, Davis	
4:15	How do the microbial guests of aphids earn their keep? Jacob Adam Russell ; University of Arizona	
4:30	Life history modification of the pipevine swallowtail in response to host plant characteristics James Fordyce, Chris C. Nice ; University of California, Davis	

ORAL PRESENTATIONS: SATURDAY AFTERNOON ◀

- 4:45 Measuring tolerance of herbivory in wild sunflower, *Helianthus annuus*
Diana Pilson; University of Nebraska
- 5:00 Is a jack-of-all trades a master of none? A study of adaptation to multiple pollinators in wild radish (*Raphanus raphanistrum*)
Heather Farrah Sahli, Jeffrey K. Conner; Michigan State University
- 5:15 Evolution of virulence in a generalist pathogen
Ingrid M. Parker, G. S. Gilbert; University of California, Santa Cruz

Session 4e 3:30-5pm, Saturday—Ayres 106
Evolution of Behavior III.

(Moderator: Terry J. Ord)

- 3:30 The evolution of display behavior in *Anolis* lizards
Terry John Ord, Emilia P. Martins; Indiana University
- 3:45 The evolution of functional traits associated with mulluscivory in sunfishes
Thomas J. Near, Peter C. Wainwright, David Collar; University of California, Davis
- 4:00 The inheritance and development of individual differences in a suite of behavioral traits in two populations of threespined stickleback
Alison Bell; University of California, Davis
- 4:15 To fuse or not to fuse? Ontogenetic shifts in the frequency of chimera formation in a marine hydroid
Alex C. Wilson, Rick Grosberg; University of California, Davis
- 4:30 Variable sensory systems in the bluefin killifish
Becky Fuller; Florida State University
- 4:45 Where do good parents come from and does it matter?
Melanie Gibbs, Allen J. Moore; University of Manchester
- 5:00 Why sub-optimal is better: a model of behavioral thermoregulation of ectotherms
Tara L. Martin, Raymond B. Huey; University of Washington

Session 4f 3:30-5pm, Saturday—Kendall 207/209
Evolution of Host-Parasite Interactions III.

(Moderator: Erik Rauch)

- 3:30 The relationship between measures of fitness and time scale in evolution
Erik Rauch; Massachusetts Institute of Technology
- 3:45 Virulence evolution in a virus under horizontal and vertical transmission
Andrew D. Stewart, John Logsdon, Steven Kelley; University of California, Santa Barbara
- 4:00 *Wolbachia*: effects of a reproductive parasite outside the germ line
Elizabeth Ann McGraw; University of Queensland
- 4:15 Experimental prediction of the natural evolution of antibiotic resistance genes
Miriam Barlow, Barry G. Hall; University of Rochester

Session 4g ► SYMPOSIUM, 3:30-5pm, Saturday—Laxson Auditorium
Ecology and Evolution of Infectious Disease in Natural Populations
(Sponsored by the American Society of Naturalists)

- 3:30-4:00 Ecology, evolution and coevolution in the *Schistosoma* system: snails, schistosomes, sex and success
Joanne P. Webster; University of Oxford
- 4:00-4:30 Diversity and domesticity: pathogen dynamics in wild and domestic hosts
Alison G Power; Cornell University
- 4:30-5:00 Closing comments and discussion

► ORAL PRESENTATIONS: SUNDAY MORNING

Session 5a	8-10am, Sunday—Performing Arts Center (PAC) 134 Development and Evolution – Theory	(Moderator: Adam Porter)
8:00	Beyond the linear: Evolution of branched regulatory genetic pathways and pathways with negative feedback Adam Porter, Norman A. Johnson, Gregory Gibby ; University of Massachusetts, Amherst	
8:15	Embedded molecular switches, anti-cancer selection, and effects on ontogenetic rates: an hypothesis of developmental constraint on morphogenesis and evolution Kathryn D. Kavanagh ; Museum of Comparative Zoology, Harvard University	
8:30	Genetic assimilation can be a consequence of canalization Joanna Masel ; Stanford University	
8:45	Mortality interactions and the evolutionary theory of senescence Paul David Williams, Troy Day ; University of Toronto	
9:00	Phylogenetic analysis of developmental sequences Susanne Schulmeister, Ward C. Wheeler ; American Museum of Natural History	
Session 5b	8-10am, Sunday—Holt 170 Ecological Genetics – Animals	(Moderator: Christopher W. Wheat)
8:00	Adaptation at specific loci. VII. natural selection, dispersal and the diversity of molecular functional variation patterns among butterfly species complexes (<i>Colias</i> : Lepidoptera, Pieridae) Christopher West Wheat, W. B. Watt, E. H. Meyer, J. F. Martin ; Max Planck Institute of Chemical Ecology	
8:15	Ancestral polymorphisms in genetic markers obscure detection of evolutionarily distinct populations in the endangered Florida grasshopper sparrow H. Lisle Gibbs, N. Bulgin, P. Vickery, A. Baker ; Ohio State University	
8:30	Functional genomics of host shift in <i>Drosophila melanogaster</i> Laura Diane Carsten, T. Watts, G. Bosco, T. A. Markow ; University of Arizona	
8:45	Microsatellites versus mitochondria: oceanography, demography, and spatial patterns of genetic structure in the acorn barnacle <i>Balanus glandula</i> Rob John Toonen, John P. Wares, Rick Grosberg ; University of California, Davis	
9:00	Numerical dynamics and adaptation to water chemistry in the least killifish, <i>Heterandriaf formosa</i> Joseph Travis, Jeff Leips ; Florida State University	
9:15	Patterns of gene flow in a native phytophagous insect following the introduction of invasive plant species Jeffrey Catlin Oliver ; University of Arizona	
9:30	Population structure inferred from neutral molecular markers does not coincide with ecotypic variation in a garter snake Mollie Kim Manier ; Oregon State University	
9:45	Size clines in native and invading populations of <i>Drosophila subobscura</i> : correlations with temperature George W. Gilchrist, Raymond B. Huey ; The College of William and Mary	
Session 5c	8-10am, Sunday—Performing Arts Center (PAC) 144 Ecological Genetics – Plants I.	(Moderator: Cynthia G. Hays)
8:00	Ecological consequences of gene flow in an intertidal alga Cynthia Gail Hays ; University of California, Santa Cruz	
8:15	Ecological genetics of the invasive barbed goatgrass (<i>Aegilops triuncialis</i>) across serpentine soil gradients John K. McKay, John D. Gerlach, Kevin J. Rice ; University of California, Davis	
8:30	Evolution in a community context: non-intuitive agents of selection on a flower color polymorphism Sharon Y. Strauss, Rebecca Irwin ; University of California, Davis	

ORAL PRESENTATIONS: SUNDAY MORNING ◀

- 8:45 Evolutionary ecology of Californian serpentine sunflower
Julianne Bergoch Sambatti; University of California, Davis
- 9:00 Experimental studies of adaptation in *Clarkia*: fitness variation across a subspecies border
Monica A. Geber, Vince Eckhart; Cornell University
- 9:15 Genetic diversity and fine scale population structure of the saltmarsh perennial *Borrichia frutescens*
Christina L. Richards, James L. Hamrick, Lisa A. Donovan; University of Georgia
- 9:30 Genetic diversity in *Typha* from control and radioactively contaminated areas in Ukraine
Olga Vasylivna Tsyusko, Mike H. Smith, Taras K. Oleksyk, Travis C. Glenn; University of Georgia
- 9:45 Negative genetic correlations between flower size and number: implications for the evolution of floral displays in *Lobelia*
Christina Marie Caruso; University of Guelph

Session 5d 8-10am, Sunday—Ayres 120
Evolution of Species Interactions

(Moderator: Matt T. Rutter)

- 8:00 Natural selection on extrafloral nectar production in *Chamaecrista fasciculata*: the costs and benefits of a mutualistic trait
Matt T. Rutter; University of Maryland, College Park
- 8:15 Phylogenetic patterns of herbivore host choice in a tropical rainforest community
George D. Weiblen; University of Minnesota
- 8:30 Potential for character state evolution in response to an indirect ecological effect
Philip Astles, Richard Preziosi; University of Manchester
- 8:45 Simultaneous evolution of defense and competition in plants: induced switching between resistance and tolerance
David Henry Siemens, Tessa Lynn Jones; Black Hills State University
- 9:00 The evolution of inquilinism and host-plant use in *Tamalia* gall aphids
Donald G. Miller, Bernard J. Crespi; California State University, Chico
- 9:15 The interplay of geography and specificity in lichen symbioses
Rebecca Yahr, Paula T. DePriest, Rytas J. Vilgalys; Duke University

Session 5e 8-10am, Sunday—Ayres 106
Genomics I.

(Moderator: Jeffrey L. Boore)

- 8:00 An experimental evaluation of four methods for identifying animal mitochondrial tRNAs
Stacia K. Wyman, Jeffrey Lynn Boore; DOE Joint Genome Institute, University of California, Berkeley
- 8:15 Analysis of proteome structure and evolution: a statistical approach
Michael Aaron Gilchrist, A. Wagner, L. A. Salter; University of New Mexico
- 8:30 Comparative analysis of primate transcriptomes
Hurng-Yi Wang, Huan-Chieh Chien; National Taiwan Normal University
- 8:45 Estimating the standard error and confidence interval of measures of relatedness using resampling techniques
Katalin Csillery, Allen J. Moore, Penelope F. Kukuk; University of Manchester
- 9:00 Geography and gene expression: AFLP and macroarray approaches to a house finch-mycoplasma host-parasite interaction
Scott V. Edwards, Zhenshan Wang, Kristy Farmer, Geoffrey Hill, Allan J. Baker; University of Washington
- 9:15 Modularity in genomic regulatory networks
Junhyong Kim, Paul Magwene; University of Pennsylvania
- 9:30 Mutational variance and the rates of gene expression evolution in *Drosophila melanogaster*
Junhyong Kim, David Houle, Scott Alan Rifkin, Kevin P. White; University of Pennsylvania

► ORAL PRESENTATIONS: SUNDAY MORNING

Session 5f	8-10am, Sunday—Kendall 207/209	
	Hybridization – Animals	(Moderator: Sara H. Cahan)

- 8:00 Complex hybrid origins of a genetically-based system of caste determination in harvester ants
Sara Helms Cahan, Laurent Keller; University of Lausanne
- 8:15 Introgressive hybridization between two species of top minnows (*Fundulus notatus* and *F. olivaceus*) in Southern Illinois
Andrew M. Ravanell, David D. Duvernall; Southern Illinois University Edwardsville
- 8:30 Microsatellite analysis of a hybrid zone in manakins (Aves: Pipridae)
Michael James Braun, Tamaki Yuri; Smithsonian Institution
- 8:45 Mosaic introgression creates population structure in Caribbean staghorn corals
Steve Verner Vollmer, Steve Palumbi; Harvard University
- 9:00 Temporal stability at a hybrid zone in the *Ensatina* ring species complex
David B. Wake, Joao Alexandrino, Craig Moritz; University of California, Berkeley
- 9:15 Selection in a tiger salamander hybrid zone
Benjamin M. Fitzpatrick, H. Bradley Shaffer, Angela M. Picco, S. Randal Voss; University of California, Davis
- 9:30 Rapid evolution and positive selection of the *Drosophila* hybrid incompatibility gene hybrid male rescue
Daniel A. Barbash, Philip Awadalla, Aaron M. Tarone, Dominic F. Siino, John Roote; University of California, Davis
- 9:45 Maintenance of species identity in a mosaic hybrid zone
Seth C. Bitch, Daniel J. Howard; New Mexico State University

Session 5g	► SYMPOSIUM, 8-10am, Sunday—Laxson Auditorium
	Phylogenetic Supertrees: Combining Information to Reveal the Tree of Life

(Sponsored by the Society of Systematic Biologists)

- 8:00-8:30 Phylogenetic supertrees: new uses for old phylogenies
Olaf R. P. Bininda-Emonds; Technical University of Munich, Germany
- 8:30-9:00 Some desiderata for meta-analytical supertrees
Mark Wilkinson, Natural History Museum, England; **Joseph L. Thorley,** Fisheries Research Service, England; **David Pisani,** Pennsylvania State University; **François-Joseph Lapointe,** Université de Montréal, Canada; **James O. McInerney,** National University of Ireland
- 9:00-9:30 Constructing supertrees with divergence time estimates
David Bryant, McGill Centre for Bioinformatics, McGill University; **Charles Semple,** Biomathematics Research Centre, University of Canterbury; **Mike Steel,** Biomathematics Research Centre, University of Canterbury
- 9:30-10:00 The cladistics of matrix representation with parsimony analysis
Harold N. Bryant; Royal Saskatchewan Museum

► Note: Symposium (Session 5g) is continued after the break as Session 6g

Session 6a	10:30am-12pm, Sunday—Performing Arts Center (PAC) 134
	Life History Evolution – Plants

(Moderator: Amy C. Blair)

- 10:30 Born to run: the evolution of an invasive phenotype in a perennial plant
Amy C. Blair, Lorne Wolfe; Georgia Southern University
- 10:45 Evolution of the monosaccharide transporter gene family in land plants: Phylogenetic analysis in a non-seed vascular plant, *Ceratopteris richardii*
Deborah A. Johnson, Jeffrey P. Hill, Laurens H. Smith, Jr.; Idaho State University

ORAL PRESENTATIONS: SUNDAY MORNING ◀

- 11:00 Evolution of woodland taxa from chasmophytic ancestors: taxonomy and life-trait evolution in the European endemic *Phyteuma* (Campanulaceae)
Gerald M. Schneeweiss, Peter Schoenswetter, Andreas Tribsch; University of Vienna
- 11:15 Fitness, life-history, and the evolution of complexity in Volvocalean green algae
Cristian A. Solari, Aurora M. Nedelcu, Richard E. Michod; University of Arizona
- 11:30 Genetic niche-hiking: an alternative explanation for the evolution of flammability
Dylan Walker Schwilk, Ben Kerr; Stanford University
- 11:45 Latitudinal clines in *Arabidopsis* life history traits
John R. Stinchcombe, Johanna Schmitt; Brown University

Session 6b 10:30am-12pm, Sunday—Holt 170 Speciation – General

(Moderator: Stevan A. Springer)

- 10:30 A molecular test of reinforcement: accelerated evolution of a gamete recognition protein in a hybridizing *Mytilus* population
Stevan Anthony Springer, Bernard J. Crespi; Simon Fraser University
- 10:45 Adaptive radiation of Galápagos Bulimulidae: diversification at a snail pace?
Christine Parent, B.J. Crespi; Simon Fraser University
- 11:00 Conspecific sperm precedence in sister species of *Drosophila* with overlapping ranges
Audrey Showhuey Chang; University of Chicago
- 11:15 Dissolving the species problem
Massimo Pigliucci; University of Tennessee
- 11:15 Does intraspecific competition generate disruptive selection?
Daniel Imara Bolnick, Center for Population Biology, University of California, Davis
- 11:30 Ecological and intrinsic incompatibilities jointly promote the speciation process in lake whitefish (*Coregonus clupeaformis*) as revealed by linkage mapping and QTL analyses
Sean Michael Rogers, Louis Bernatchez; Laval University
- 11:45 Ecological speciation in the seal: mating system variation correlated with environmental gradients in the tropical coral *Favia fragum*
David B. Carlon; University of California, Davis

Session 6c 10:30am-12pm, Sunday—Performing Arts Center (PAC) 144 Ecological Genetics – Plants II.

(Moderator: Tonia M. Korves)

- 10:30 Over-winter mortality selection in *Arabidopsis thaliana*
Tonia M. Korves, Bhoomika Singh, Nannette Reese, Michael Purugganan, Johanna Schmitt; Brown University
- 10:45 Reconstructing the hybrid origins of *Helianthus deserticola*: selection experiments on the desert floor
Nolan Coburn Kane; Indiana University
- 11:00 The ecology and evolution of distribution patterns in a vernal pool annual plant
Nancy C. Emery, Kevin Rice, Maureen Stanton; University of California, Davis
- 11:15 Variation in the fine scale genetic structure of a forest understory species, *Trillium cuneatum*
James L. Hamrick, Eva Bercikova Gonzales; University of Georgia
- 11:30 Temporal variation in effective pollen structure in *Mimosa*
Andrew Irwin, James Hamrick, Mary Jo Godt; University of Georgia
- 11:45 Phenotypic plasticity in *Mimulus guttatus*: are serpentine and drought tolerance related?
Courtney J. Murren, Amanda Alice Gibson, Michele R. Dudash; University of Maryland

► ORAL PRESENTATIONS: SUNDAY MORNING

Session 6d	10:30am-12pm, Sunday—Ayres 120 Speciation – Animals I.	(Moderator: Tami M. Panhuis)
10:30	Sexual conflict and speciation: postmating interactions between African and Non-African <i>Drosophila melanogaster</i> Tami Marie Panhuis, Len Nunney ; University of California, Riverside	
10:45	The role of natural selection in genetic differentiation of world-wide populations of <i>Drosophila ananassae</i> John Baines, Aparup Das, Wolfgang Stephan ; University of Munich	
11:00	Simultaneous host shift and hybridization—the fast way to sympatric speciation? Dietmar Schwarz, Bruce A. McPheron ; Pennsylvania State University	
11:15	Speciation in <i>Carlia</i> skinks from the Australian wet tropics rainforest: inference of demographic history from multiple loci Gaynor Dolman, Craig Moritz ; University of Queens	
11:30	The adaptive surface for crossbills: divergent selection drives the radiation of crossbills Craig W. Benkman ; New Mexico State University	
11:45	The effects of male pregnancy on the potential for sympatric speciation in seahorses Adam Gregory Jones, C. Kvarnemo, G. I. Moore, D. Walker, J. C. Avise ; Georgia Institute of Technology	
Session 6e	10:30am-12pm, Sunday—Ayres 106 Genomics II.	(Moderator: Santiago C. González-Martínez)
10:30	Nucleotide diversity in pine Santiago César González-Martínez, Garth Brown, Elhan Ersoz, Robert Kuntz, Geoff Gill, David Neale ; University of California, Davis	
10:45	Patterns in protein structure diversity determined by the folding process Junhyong Kim, Julia Hartling ; University of Pennsylvania	
11:00	Population genetic variation in genome-wide gene expression Jeffrey P. Townsend, Duccio Cavalieri, Daniel Hartl ; University of California, Berkeley	
11:15	RNA-protein coevolutionary diversity of tRNA identity within bacteria David H. Ardell, Siv G. E. Andersson ; Uppsala University	
11:30	When genes go bad: base composition heterogeneity at the avian MC3R locus George F. Barrowclough, Jeff G. Groth ; American Museum Natural History	
11:45	Nucleotide variability around G6PD and the signature of selection by malaria in humans Matthew A. Saunders, Michael F. Hammer, Michael W. Nachman ; University of Arizona	
Session 6f	10:30am-12pm, Sunday—Kendall 207/209 Hybridization – Arthropods/Plants	(Moderator: Paul K. Kirk)
10:30	Cytonuclear disequilibrium in the <i>Chrysochus</i> hybrid zone Kirsten Jo Monsen, Barb Honchak, Stefanie Locke, Merrill Peterson ; Western Washington University	
10:45	Genetic differentiation between color morphs of the ant <i>Camponotus festinatus</i> Michael David Goodisman, Dan A. Hahn, Diana E. Wheeler, Michael A. Wells ; University of Arizona	
11:00	Evolution of ecophysiological traits in a species of hybrid origin, <i>Helianthus anomalus</i> Fulco Ludwig, David Rosenthal, Loren Rieseberg, Lisa Donovan ; University of Georgia	
11:15	Hybrid fitness and the role of maternal and paternal effects in mulberry (<i>Morus L.</i>) Kevin S. Burgess, Brian C. Husband ; University of Guelph	
11:30	Hybridization among <i>Juglans hindsii</i> and associated introduced species in Northern California riparian forests P. K. Kirk, K. A. Schierenbeck, G. Wolfe, B. Baldwin, D. Potter ; California State University, Chico	

ORAL PRESENTATIONS: SUNDAY MORNING / AFTERNOON ◀

Session 6g	<p>► SYMPOSIUM, 10:30am-12pm, Sunday—Laxson Auditorium Phylogenetic Supertrees: Combining Information to Reveal the Tree of Life (Sponsored by the Society of Systematic Biologists)</p> <hr/>
	10:30-11:00 Supertree versus supermatrix John Gatesy ; University of California, Riverside
	11:00-11:30 Supertree methods for solving hard optimization problems Tandy Warnow , University of Texas at Austin; Bernard Moret , University of New Mexico; Tiffani Williams , University of New Mexico; Usman Roshan , University of Texas at Austin
	11:30-12:00 Detecting diversification rate variation in supertrees Brian R. Moore , Yale University; Kai M.A. Chan , Princeton University; Michael J. Donoghue , Yale University
Session 7a	<p>1:15-3pm, Sunday—Performing Arts Center (PAC) 134 Evolutionary Genetics I.</p> <p style="text-align: right;">(Moderator: Jennifer M. Rhode)</p> <hr/>
	1:15 Consequences of cytonuclear Interactions for plant hybrid zone expansion Jennifer M. Rhode , Mitch Cruzan ; Portland State University
	1:30 Differential gene expression in the male reproductive tract associated with reproductive success in <i>Drosophila melanogaster</i> Jenny M. Drnevich , Lei Liu , Sandra Rodriguez-Zas , Kimberly Hughes ; University of Illinois
	1:45 Duplications of long wavelength-sensitive rhodopsins in Lepidoptera: Utility of an orthologous gene in recovering nymphalid subfamilial relationships Adriana D. Briscoe , Andrew Van Zandt Brower ; University of California, Irvine
	2:00 Effect of population size on fitness correlates in <i>Caenorhabditis elegans</i> : Implications for the distribution of mutational effects Suzanne Estes , Patrick C. Phillips , Dee R. Denver , W. Kelley Thomas , Michael Lynch ; Oregon State University
	2:15 Effects of PGI genotype and thermal variation on reproductive success in a willow beetle Robin M. Stoneking , Nathan E. Rank , Elizabeth Dahlhoff ; Sonoma State University
	2:30 Evolution of a recently duplicated phytochrome gene pair in <i>Arabidopsis</i> ecotypes Kim S. McBreen , Sarah Mathews ; University of Missouri, Columbia
	2:45 Evolution of gender associated mitochondrial DNA in freshwater bivalves Jason Paul Curole , Thomas Kocher ; Bodega Marine Lab, University of California
Session 7b	<p>1:15-3pm, Sunday—Performing Arts Center (PAC) 144 Molecular Systematics – Plants</p> <p style="text-align: right;">(Moderator: Ruth E. Timme)</p> <hr/>
	1:15 A case study of gypsophilic plant evolution in the Chihuahuan Desert: <i>Tiquilia</i> subg. <i>Eddyia</i> Robert K. Jansen , Michael James Moore ; University of Texas at Austin
	1:30 A morphological enigma: a naked <i>Panicum</i> in the bristly grasses Andrew N. Doust , Elizabeth A. Kellogg , Emilie C. Bess ; University of Missouri-St. Louis
	1:45 A phylogeny of the genus <i>Phalaenopsis</i> (Orchidaceae) using nuclear and chloroplast markers with implications for the study of reticulate evolution Joanna Padolina , Craig R. Linder , Tandy Warnow , Beryl Simpson ; University of Texas at Austin
	2:00 Better phylogenetic resolution in the genus <i>Helianthus</i> (Asteraceae) using ETS sequence data Ruth E. Timme , Randy Linder , Tandy Warnow , Beryl Simpson ; University of Texas at Austin
	2:15 Classification and floral evolution within <i>Zaluzianskya</i> (Scrophulariaceae s.s., Tribe Manuleae); preliminary insights from multiple DNA data sets Mark E. Mort , Jenny Kay Archibald , Andrea Wolfe ; University of Kansas

► ORAL PRESENTATIONS: SUNDAY AFTERNOON

- 2:30 Complex patterns of evolution of C4 photosynthesis in the panicoid grasses: implications of nuclear and cpDNA phylogenies
Janet C. Barber, Liliana M. Giussani, Sandra S. Aliscioni, Elizabeth A. Kellogg; Saint Louis University

- 2:45 Deep vascular plant phylogeny: Inferences from an RNA polymerase subunit gene (RPB2)
Jessica M. Zgurski, Benjamin Hall, Betty McConaughay, Jie Luo, Sean Graham; University of Alberta

Session 7c 1:15-3pm, Sunday—Ayres 120
Morphometric Evolution

(Moderator: Gene Hunt)

- 1:15 Are evolutionary changes concentrated in directions of high phenotypic variance? A test using the deep-sea ostracode fossil record
Gene Hunt; University of Chicago
- 1:30 Cranial developmental integration in four species of primates
Jessica Hemmerick Hunt; Yale University
- 1:45 Phylogenetics, morphometrics and biomechanics: functional implications of skull shape change
Mark W. Westneat, Barry Chernoff; Field Museum
- 2:00 Dog dogma: Heterochronic patterns in the cranial morphology of *Canis familiaris*
Abby Grace Drake; University of Massachusetts

Session 7d 1:15-3pm, Sunday—Ayres 106
Phenotypic Plasticity and G*E

(Moderator: Vincent Debat)

- 1:15 A perspective on the analysis of phenotypic plasticity: the size and shape of *Drosophila* wing
Vincent Debat; University of California, Riverside
- 1:30 Can genotype x environment interactions resolve the lek paradox?
Anne Danielson-Francois, Michael D. Greenfield; University of Kansas
- 1:45 Genetic variation and phenotypic plasticity: causes of morphological variation in Eurasian perch (*Perca fluviatilis*)
Richard Svanbäck, Peter Eklöv; Evolutionary Biology Centre, Uppsala University
- 2:00 Genetics of predator-induced phenotypes in Pacific treefrog (*Hyla regilla*) tadpoles
Michael F. Benard; University of California, Davis
- 2:15 Maternal choice of offspring environments in *Amphicarpaea bracteata*
Amity M. Wilczek, Fakhri A. Bazzaz; Harvard University
- 2:30 Reciprocal phenotypic plasticity and coevolution in a dynamic predator-prey system
Michael Kopp; Max Planck Institute of Limnology
- 2:45 Temperature-dependent phenotypic plasticity in the guppy
Lars B. Pettersson, Anne E. Magurran; Lund University

Session 7e 1:15-3pm, Sunday—Holt 170
Phylogenetic Methods/Theory I.

(Moderator: Junhyong Kim)

- 1:15 A bridge not too far: connecting parsimony and likelihood by a family of semi-parametric estimators
Junhyong Kim, Mike Sanderson; University of Pennsylvania
- 1:30 A comparative analysis of phylogenetic consensus methods
Tanya Y. Berger-Wolf, Tiffani L. Williams; University of New Mexico
- 1:45 A genomic view of polytomies in species trees: a case study in the Avian genus *Gallus*
Rebecca T. Kimball, Edward L. Braun; University of Florida
- 2:00 A novel approximation to the structured coalescent: the Dancing Trees Algorithm
Stuart J. E. Baird; University of California, Berkeley

ORAL PRESENTATIONS: SUNDAY AFTERNOON ◀

- 2:15 Comparison of nodal support in different methods of phylogenetic inference
Gerald M. Schneeweiss; Institute of Botany, University of Vienna

- 2:30 Examining the effects of branch length priors on clade support
Paul O. Lewis, Mark Travis Holder; University of Connecticut

- 2:45 How old are Indo-European languages? Some Bayesian explorations
Russell David Gray, Quentin Atkinson; University of Auckland

Session 7f 1:15-3pm, Sunday—Kendall 207/209
Life History Evolution – Arthropods (Moderator: Justin M. Calabrese)

- 1:15 A test of competition/colonization tradeoff theory in a tropical beetle community
Justin Marco Calabrese; BEES Program, University of Maryland

- 1:30 Age-specific effects of fecundity QTL: implications for evolutionary theories of aging
Jeff Leips, Paul Gilligan, Trudy F. C. Mackay; University of Maryland, Baltimore County

- 1:45 The senescence of sexual and obligately asexual clones of *Daphnia*
Jeff Dudycha, Elizabeth Morrin, Christiane Hassel; Indiana University

- 2:00 Windows of selection over space and time in a leafminer, *Antispila nyssaefoliella*
Candace Low; University of California, Davis

- 2:15 How choosy to be when time is limited. Host plant choice in *Pieris virginiana*
Pat Doak, Peter Kareiva, Joel Kingsolver; Institute of Arctic Biology, University of Alaska

- 2:30 Senescence of sexual and obligately asexual clones
Elizabeth Morrin, Christiane Hassel; Indiana University

- 2:45 The effects of nutrition and male age on late-life fecundity in *Drosophila melanogaster*
Cassandra L. Rausser; University of California, Irvine

Session 7g ► SYMPOSIUM, 1:15-3:15pm, Sunday—Laxson Auditorium
Sexual Conflict (Sponsored by Society for the Study of Evolution)

- 1:10-1:15 Introduction
Rhonda R. Snook; University of Sheffield

- 1:15-1:45 Genetic conflict: an engine driving co-evolution within and between the sexes
Bill Rice; University of California, Santa Barbara

- 1:45-2:15 Dynamics of sexual conflict
Sergey Gavrilets; University of Tennessee

- 2:15-2:45 Experimental removal and elevation of sexual selection in a sperm hetero-morphic model insect system: does sexual selection generate sexual conflict?
Helen Crudgington; University of Sheffield, UK

- 2:45-3:15 Sexual conflict is all in the family: male manipulation, female choice and offspring development
Trish Moore; University of Manchester, UK

► Note: Symposium (Session 7g) is continued after the break as Session 8g

Session 7h 1:15-3pm, Sunday—Plumas 102
Life History Evolution/Inbreeding – Plants (Moderator: Helen M. Hull-Sanders)

- 1:15 Do specialist and generalist herbivores respond differently to inbred plants
Helen Mae Hull-Sanders, Micky D. Eubanks; Auburn University

► ORAL PRESENTATIONS: SUNDAY AFTERNOON

- 1:30 Evidence of inbreeding depression at different life-cycle stages in *Silene vulgaris* hermaphrodites
Glaetli Melanie, Jérôme Goudet; Institute of Ecology, University of Lausanne
- 1:45 Testing life history theory in a phylogenetic context: the association of climate and habit in the bird-cage evening primroses (Section Anogra, Oenothera, Onagraceae)
Margaret Eleanor Katharine Evans, William Hahn, David Hearn, Jennifer Spangle, Larry Venable; University of Arizona
- 2:00 The evolutionary ecology of germination in *Arabidopsis thaliana*
Kathleen Donohue, Lisa A. Dorn, Converse Griffith, Johanna Schmitt, EunSuk Kim, Anna Aguilera, Robin Hopkins; Harvard University
- 2:15 Selfing as a means of reproductive isolation: competition for pollination in *Ipomoea*
Robin Ann Smith, Mark D. Rausher; Duke University
- 2:30 Temporal variation in effective pollen structure in *Mimosa*
Peter E. Smouse, Andrew J. Irwin, Mary Jo Godt, James Hamrick; Rutgers University

Session 8a **3:30-5pm, Sunday—Ayres 106**
Evolutionary Genetics II.

(Moderator: Stacy I. Taylor)

- 3:30 Evolution of metal accumulation in *Thlaspi* (Brassicaceae)
Stacy Ileen Taylor, Mark Macnair, Jamie Stevens; University of Exeter
- 3:45 Evolution of sequence simplicity in the spider silk gene family
Cheryl Y. Hayashi; University of California, Riverside
- 4:00 Evolutionary genetic models of cnidarians and their algal endosymbionts
Maria E. Orive; University of Kansas
- 4:15 Evolutionary genetics of postmating male-female interactions in *Drosophila melanogaster*: dissecting the female side
Mara Katharine Nielsen Lawniczak, David Begun; University of California, Davis
- 4:30 Genetic independence of seasonality, stress tolerance and fitness
William E. Bradshaw, C. M. Holzapfel, J. Tang, P. Zani; University of Oregon
- 4:45 Sexual selection and modes of inheritance
Mark Kirkpatrick, David W. Hall; University of Texas at Austin
- 5:00 The evolution and epidemiology of influenza
Alison P. Galvani, R. M. Bush, N. M. Ferguson; University of California, Berkeley

Session 8b **3:30-5pm, Sunday—Performing Arts Center (PAC) 134**
Mating/Breeding Systems – Plants

(Moderator: Arthur E. Weis)

- 3:30 Assortative mating for herbivore resistance in plants
Arthur E. Weis, Chad M. Young; University of California, Irvine
- 3:45 Correlated evolution of floral morphology and mating-type frequencies in a sexually polymorphic plant
Lawrence David Harder, S. C. H. Barrett, W. W. Cole; University of Calgary
- 4:00 Pollen limitation generates intermediate ESS levels of self-incompatibility
Mario Vallejo Marín, Marcy K. Uyenoyama; Duke University
- 4:15 Pollinators and plant size affect the outcrossing rate in the blue columbine
Johanne Brunet, Heather Sweet; Oregon State University
- 4:30 Sex allocation varies with flower size in *Collinsia parviflora*
Elizabeth Elle, Amy Parachnowitsch; Simon Fraser University

ORAL PRESENTATIONS: SUNDAY AFTERNOON ◀

- 4:45 Wind pollination in grasses: the role of inflorescence architecture
Jannice Friedman, Lawrence D. Harder; University of Calgary

Session 8c 3:30-5pm, Sunday—Ayres 120 Molecular Evolution – Theory

(Moderator: Simon Malcomber)

- 3:30 A knotted TALE: the role of homeotic genes in plant inflorescence development
Simon Malcomber, Lilla Bartko, Elizabeth A. Kellogg; University of Missouri, St. Louis
- 3:45 A relative rate of gene rearrangement test
Mark Dowton, Renfu Shao, Steve Barker; Wollongong University
- 4:00 Bayesian estimation of species divergence times and ancestral population sizes using DNA sequences from multiple loci
Bruce Howard Rannala, Ziheng Yang; University of Alberta
- 4:15 Divergent populations versus clonal siblings: mtVNTR instability on different time scales
Andrew A. Bieberich, Dennis J. Minchella, Jason A. Curtis; University of California, Davis
- 4:30 Modeling evolution at a microsatellite DNA marker in the context of flanking sequence coalescence
Scott M. Blankenship, Dennis Hedgecock, Bernie May, Will Eichert; NMFS, Southwest Fisheries Science Center
- 4:45 Natural selection on amino acid changes
Hua Tang, Gerald J. Wyckoff, Hung-Yi Wang, Justin C. Fay, Chung-I Wu; University of Chicago
- 5:00 Rapid evolution of plant seed storage proteins: evidence for a novel form of selection
Joseph E. Neigel, Caryl A. Chian; University of Louisiana at Lafayette
- 5:00 Mutation Repair: A new proposed function for sexual reproduction
Virgil Reese

Session 8d 3:30-5pm, Sunday—Holt 170 Molecular Systematics – Vertebrates I.

(Moderator: Kevin J. Roe)

- 3:30 A test of the satellite species hypothesis and the evolution of parasitism/non-parasitism in the lamprey genus *Ichthyomyzon* (Petromyzontiformes: Petromyzontidae)
Kevin J. Roe, Richard L. Mayden, Claude Renaud; Delaware Museum of Natural History
- 3:45 AmphibiaTree: a community-based phylogeny of amphibians
David C. Cannatella, David B. Wake, David M. Hillis; University of Texas at Austin
- 4:00 Digging deeper: a closer look at molecular clock errors
Elizabeth Anne Hadly, Marcel van Tuinen; Stanford University
- 4:15 High throughput sequencing of mammalian mitochondrial genomes
H. M. Fourcade, Shellie Bench, Ya-ping Zhang, Oliver Ryder, Robert Feldman, Jeffrey Lynn Boore; DOE Joint Genome Institute
- 4:30 How misleading are mitochondrial trees? A case study in slender salamanders (Plethodontidae: Batrachoseps)
Elizabeth Lacy Jockusch; University of Connecticut
- 4:45 Insights into the relationships among major rodent lineages based on complete mitochondrial genome sequence data
Laurence John Frabotta, Rodney Honeycutt; Texas A&M University
- 5:00 Nuclear DNA sequences detect species limits in ancient moa
L. Huynen, C. D. Millar, D. M. Lambert; Allan Wilson Centre for Molecular Ecology and Evolution, Institute of Molecular BioSciences, Massey University

► ORAL PRESENTATIONS: SUNDAY AFTERNOON

Session 8e	3:30-5pm, Sunday—Performing Arts Center (PAC) 144 Phylogenetic Methods/Theory II.	(Moderator: Laura M. Boykin)
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- 3:30 Inferring phylogenetic relationships using gene order data—A case study of photosynthetic organelles and chloroplast genomes
Tandy Jo Warnow, Linda A. Raubeson, Jijun Tang, Bernard M.E. Moret, Stacia K. Wyman; University of Texas at Austin
- 3:45 Inferring the root of Orcuttieae (Poaceae) using a molecular clock approach
Laura M. Boykin, Timothy K. Lowrey, Laura Salter; University of New Mexico
- 4:00 Large taxon sampling and the accuracy of phylogenetic reconstruction
Nicolas Salamin, Trevor R. Hodkinson, Vincent Savolainen; University of Washington
- 4:15 MCMC chain length in Bayesian phylogenetic inference: how long is “long enough?”
David L. Swofford, Dan Lee Warren, James Wilgenbusch; Florida State University
- 4:30 Mixed-model analysis for phylogeny estimation from multiple data sets
Scot A. Kelchner; Australian National University
- 4:45 Parameterization and noninformative priors in Bayesian phylogenetics
Mark T. Holder, Derrick Joel Zwickl; University of Connecticut
- 5:00 Performance-based selection of likelihood models for phylogeny estimation
Jack Sullivan, Vladimir Minin, Zaid Abdo, Paul Joyce; University of Idaho

Session 8f	3:30-5pm, Sunday—Kendall 207/209 Life History Evolution – Fish	(Moderator: Andrew P. Hendry)
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- 3:30 Adaptive variation in senescence: reproductive life span in a population of salmon
Andrew P. Hendry, Yolanda Morbey, Ole Berg, John Wenburg; McGill University
- 3:45 Comparative analyses of placental evolution in the fish genus *Poeciliopsis*
David N. Reznick, Marcelo N. Pires, Theodore Garland, Jr.; University of California, Riverside
- 4:00 Competition for mates and optimal reproductive scheduling in semelparous organisms
Yolanda E. Morbey, Peter A. Abrams; University of Toronto
- 4:15 Genetic and phenotypic differentiation of sockeye salmon (*Oncorhynchus nerka*) in Albert Johnson Creek and the recently colonized Surprise Lake, Aniakchak National Monument and Preserve, Alaska
Scott A. Pavey, Troy Raymond Hamon, Jennifer L. Nielsen; US Geological Survey
- 4:30 Life history constraints and behavioral shifts in *Gambusia affinis*
David B. Gonzalez; Brigham Young University
- 4:45 Variation in female preference and the maintenance of male polymorphisms
Molly Ruth Morris; Ohio University
- 5:00 Multiple paternity and population genetic structure in natural populations of a life-bearing fish
Sheryl L. Soucy, Joseph Travis; Florida State University

Session 8g	► SYMPOSIUM, 3:30-5pm, Sunday—Laxson Auditorium Sexual Conflict (Sponsored by Society for the Study of Evolution)
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- 3:30-4:00 Genitalia as reproductive multi-tools: sexual selection, sexual conflict and genitalic evolution in water striders
Daphne Fairbairn; University of California, Riverside
- 4:00-4:30 Sexual conflict: theoretical issues and experimental examples
Tom Pizzari; Swedish University of Agricultural Sciences
- 4:30-5:00 On detecting sexually antagonistic co-evolution with comparative approaches
Locke Rowe; University of Toronto

ORAL PRESENTATIONS: MONDAY MORNING ◀

Session 9a	8-10am, Monday—Performing Arts Center (PAC) 134 Evolutionary Genetics III.	(Moderator: Jason G. Mezey)
8:00	Genetic variation in <i>Drosophila</i> wings: dimensionality of a really big G matrix Jason G. Mezey; Florida State University	
8:15	New data on doubly uniparental inheritance from venerids and mytilids (Mollusca Bivalvia) Marco Passamonti, Jeffrey Lynn Boore, Scali Valerio; University of Bologna, DOE Joint Genome Institute, University of California, Berkeley	
8:30	Hox cluster organization, genome duplication and stickleback morphological evolution Angel Amores, William Andrew Cresko, Y. Yan, A. Singer, J. Postlethwait; University of Oregon	
8:45	Intracellular gene transfer—the cox2 case in legumes Sasa Stefanovic, Jeffrey Palmer; Indiana University	
9:00	Intra-locus sexual conflict and the evolution of genetic architecture Russell Bonduriansky; University of Toronto	
9:15	Maintenance of sex chromosome meiotic drive in stalk-eyed flies Gerald S. Wilkinson, Philip Johns; University of Maryland	
9:30	Male-biased mutation transmission in plants Mark O. Johnston, C. A. Whittle; Dalhousie University	
9:45	Measuring natural selection and the problem of missing traits Samuel M. Scheiner; National Science Foundation	
Session 9b	8-10am, Monday—Performing Arts Center (PAC) 144 Molecular Systematics – Arthropods I.	(Moderator: Chung-Ping Lin)
8:00	Correlated evolution of maternal care and ant mutualism in the New World treehopper Subfamily Membracinae (Insecta: Hemiptera: Membracidae) Chung-Ping Lin, Bryan N. Danforth, Thomas K. Wood; University of Missouri	
8:30	Dracula ant relations and implications for systematics Corrie Saux, Greg S. Spicer, Brian L. Fisher; San Francisco State University, California Academy of Sciences	
8:45	Geographic structure of the ant genus <i>Mystrium</i> in Madagascar Derek John Girman, Gary Ouellette, Brian Fisher; Sonoma State University	
9:00	Incongruence among nuclear and mitochondrial phylogenies of New Zealand alpine cicadas Thomas Robert Buckley; Landcare Research	
9:15	Inferring systematics and molecular evolution in arachnids using mitochondrial genomes Susan Elaine Masta, Jeffrey Lynn Boore; DOE Joint Genome Institute	
9:30	Mitochondrial genomics: new data for the phylogeny of hexapods Francesco Frati, Francesco Nardi, Antonio Carapelli, J. Boore, G. Spinsanti, R. Dallai; University of Siena	
9:45	Molecular phylogenetics of North American freshwater copepods Ryan A. Thum; Dartmouth College	
Session 9c	8-10am, Monday—Holt 170 Phylogenetic Methods/Theory	(Moderator: David D. Ackerly)
8:00	Phylogenetically structured databases: the future of bioinformatics David D. Ackerly, Cam Webb, Brent Mishler, Sean Askay, Richard Moe, Staci Markos; Stanford University	
8:15	Prior distribution of phylogenies from a birth-death process Joe Felsenstein; University of Washington	

► ORAL PRESENTATIONS: MONDAY MORNING

- 8:30 RY coding overcomes biases in mitochondrial data
Edward D. Penny, Frederic Delsuc, Matt Phillips; Massey University
- 8:45 Strategies for fossil calibration of molecular clocks in sunfish and basses (Perciformes: Centrarchidae), a multi gene approach
Thomas J. Near, Daniel Imara Bolnick, Peter C. Wainwright; University of California, Davis
- 9:00 The application of partitioned Bayesian analyses to the higher-level phylogenetic relationships of skinks (Squamata: Scincidae)
Matthew Christopher Brandley; San Diego State University
- 9:15 The Bayesian star tree paradox
Paul O. Lewis, Mark Travis Holder, Kent Holsinger; University of Connecticut
- 9:30 The measurement of test severity, significance tests for resolution, and a unified philosophy of phylogenetic inference
Kevin de Queiroz; Smithsonian Institution, National Museum of Natural History
- 9:45 Tooling up for the tree of life: towards a phylogenetic database
Rod Page; University of Glasgow

Session 9d 8:10am, Monday—Ayres 106
Population Genetics – Animals I.

(Moderator: Augustus B. Vogel)

- 8:00 Testing for geographic and temporal genetic variance in the calico bass, *Paralabrax clathratus*
Augustus Byrd Vogel; University of Southern California
- 8:15 The brief history of the Chilean jack mackerel: population genetic inference from the mitochondrial DNA control region
Elie Poulin, Leyla Cárdenas, Andrea Silva, Silvana Juárez, F. Patricio Ojeda; Catholic University of Chile
- 8:30 The influence of population dynamic and mating system on genetic polymorphism in the snail *Galba truncatula*
Sandrine Trouve, L. Degen, F. Renaud, J. Goudet; Institute of Ecology, University of Lausanne
- 8:45 The number of whales before whaling based on levels of genetic diversity
Steve Palumbi, Joe Roman; Stanford University
- 9:00 The salamander *Desmognathus fuscus* is highly polymorphic at the DNA level
Jennifer A. Anderson, D. J. Begun; University of California, Davis
- 9:15 Y-Chromosome and mtDNA phylogeny and the history of click languages: antiquity and utility across the African savanna
Alec Knight, Peter A. Underhill, Holly M. Mortensen, Lev A. Zhivotovsky, Alice A. Lin, Brenna M. Henn, Dorothy Louis, Merritt Ruhlen, Joanna L. Mountain; Stanford University
- 9:30 Signatures of selection and demographic history in genes of the human MHC
Diogo Meyer, Richard Single, Steven Mack, Alex Lancaster, Mark Nelson, Marcelo Fernandez-Vina, Henry Erlich, Glenys Thomson; University of California, Berkeley
- 9:45 Small scale genetic patterns in the túngara frog, *Physalaemus pustulosus*: a panmictic population or beginning speciation?
Kathrin Lampert, Michael J. Ryan; University of Texas at Austin

Session 9e 8:10am, Monday—Ayres 120
QTL Studies – Animals/Plants

(Moderator: Jennifer M. Gleason)

- 8:00 Quantitative trait loci for multiple cuticular hydrocarbon differences between *D. simulans* and *D. sechellia*
Jennifer M. Gleason, Michael G. Ritchie; University of Kansas
- 8:15 QTLs need not be coding loci—localized variation in DNA content within the genome of *Silene latifolia*
Thomas R. Meagher, Denise Costich, Amanda Gillies; University of St. Andrews

ORAL PRESENTATIONS: MONDAY MORNING ◀

- 8:30 Genetic control of inflorescence diversification in millet grasses
Andrew Nicholas Doust, Elizabeth A. Kellogg; University of Missouri, St. Louis
- 8:45 Genetic variation in fitness among recombinant inbred lines made from naturally occurring populations of *Avena barbata* from contrasting habitats
Robert Latta, Kyle M. Gardner, April D. Johansen; Dalhousie University
- 9:00 The genetic architecture of traits involved in prezygotic reproductive isolation in Louisiana Irises: a preliminary QTL analysis
Amy Christine Bouck, Ed Kentner, Ryan Peeler, Nicole Schell, Michael L. Arnold, Susan R. Wessler; University of Georgia

Session 9f 8:10am, Monday—Kendall 207/209
Selection Experiments

(Moderator: C. Randal Linder)

- 8:00 A test of whether differing ratios of saturated and unsaturated fatty acids in seed oils are adaptive for different germination temperatures
C. Randal Linder, J. Mario McDermott; University of Texas at Austin
- 8:15 Adaptive divergence in New Zealand salmon and the fitness value of contemporary evolution
Michael T. Kinnison, Martin J. Unwin, Thomas P. Quinn; University of Maine
- 8:30 Concurrent natural and sexual selection in male sockeye salmon
Troy Raymond Hamon, Chris Foote; National Park Service
- 8:45 Epistatic variance for photoperiodic response within populations of the pitcher-plant mosquito, *Wyeomyia smithii*
William E. Bradshaw, Brian Haggerty, Christina Holzapfel; University of Oregon
- 9:00 Ontogenies in mice selected for high voluntary wheel-running activity
Theodore J. Morgan, Theodore Garland Jr., Patrick A. Carter; Washington State University, University of California, Riverside
- 9:15 Mutation and the evolution of outcrossing in *C. elegans* categories.
Asher Cutter; University of Arizona

Session 9g ► SYMPOSIUM, 8:10am, Monday—Laxson Auditorium
American Society of Naturalists Young Investigator and SSE Dobzhansky Prize Symposium

- 8:00 American Society of Naturalists, Young Investigator Awards
Introductions: **Candace Galen**; University of Missouri, Columbia
- 8:10-8:40 From phenotype to genotype: the genetic basis of adaptive coloration in pocket mice
Hopi Hoekstra; University of Arizona
- 8:40-9:10 Biological invasions; from invasibility to impact
Jonathan M. Levine; University of California, Los Angeles
- 9:15 Society for the Study of Evolution, Dobzhansky Prize
Introduction: **Allen J. Moore**; University of Manchester
- 9:30-10:00 The genetics and evolution of a hybrid incompatibility in *Drosophila*
Daven Presgraves; University of Rochester

Session 10a 10:30am-12pm, Monday—Performing Arts Center (PAC) 134
Evolutionary Genetics IV.

(Moderator: Thomas J. Smyth Merritt)

- 10:30 Metabolic control, intergenic effects and variation in malic enzyme activity in *D. melanogaster*
Thomas James Smyth Merritt, Walt Eanes; State University New York at Stony Brook
- 10:45 Molecular evolution of duplicated accessory gland protein genes
Alisha Kay Holloway; University of Texas at Austin

► ORAL PRESENTATIONS: MONDAY MORNING

- 11:00 Molecular evolution of the *Drosophila* transferrin gene family
Timothy B. Sackton, Andrew G. Clark; Cornell University
- 11:15 Molecular population genetics of male accessory gland proteins in the *Drosophila simulans* Complex
Andrew D. Kern, C. D. Jones, D. J. Begun; University of California, Davis
- 11:30 Effects of PGI genotype on fitness and physiological performance at extreme temperatures in a Sierra willow leaf beetle
D. A. Bruce, E. P. Dahlhoff, N. E. Rank; Sonoma State University
- 11:45 Effects of environmental temperature and PGI genotype on larval survival and performance in a montane leaf beetle
D. M. McMillan, S. L. Feanley, N. E. Rank, E. P. Dahlhoff; Santa Clara University

Session 10b 10:30am-12pm, Monday—Performing Arts Center (PAC) 144
Molecular Systematics – Arthropods II.

(Moderator: Riitta M. Savolainen)

- 10:30 Molecular systematics of Lasius ants and the evolution of parasitic colony founding
Riitta Maija Savolainen; University of Helsinki
- 10:45 Phylogeny of Chrysomelidae and the evolution of bifid tarsal setae
Catherine N. Duckett, Joseph J. Gillespie, Karl M. Kjer; Smithsonian Institution
- 11:00 Resolving the basal branches of Brachycera, a major lineage of flies (Diptera)
Peter H. Kerr; University of Maryland, Smithsonian Institution
- 11:15 Systematics of the snail-killing flies in the tribe Tetanocerini (Diptera: Sciomyzidae): evolution of larval feeding strategies in the genus *Tetanocera*
Eric George Chapman, Walter Randolph Hoeh; Kent State University
- 11:30 The influence of diet breadth on population genetics and phylogeography in *Crossidius* species (Coleoptera: Cerambycidae)
Christopher Elzinga, Brian D Farrell; Harvard University
- 11:45 When there ain't no morphology: molecular systematics of armored scale insects
Benjamin B. Normark, Matthew E. Gruwell, Emily Babendreier, Lisa Provencher; University of Massachusetts Amherst

Session 10c 10:30am-12pm, Monday—Ayres 106
Population Genetics – Plants I.

(Moderator: Victoria L. Sork)

- 10:30 Adult genetic structure and gene flow in tree populations
Victoria L. Sork, C. Cyril Dutech, Rodney J. Dyer, Peter E. Smouse, Robert D. Westfall; Rutgers University
- 10:45 Analysis of genetic structure and population history in wild rice populations in the Mekong Delta of Vietnam
Michael R. Reagan, Allison A. Snow, Michael Cohen, Sheila Quiloy; Ohio State University
- 11:00 Breeding patterns of a tropical Epiphytic orchid
James L. Hamrick, Dorset Waters Trapnell; University of Georgia
- 11:15 Distinct geographic patterns of genetic diversity are maintained in wild barley (*Hordeum vulgare* ssp. *spontaneum*) despite substantial rates of migration
Peter L. Morrell, Karen E. Lundy, Michael T. Clegg; University of California, Riverside
- 11:30 Equilibrium population genetics in *Arabidopsis* within population variability in European *A. lyrata*
Maria J. Clauss, Thomas Mitchell-Olds; Max Planck Institute of Chemical Ecology
- 11:45 Gene flow in a mixed oak stand in Central Spain
Maria V. Carabana, Santiago César González-Martínez, Álvaro Soto, Carmen Collada, Pablo Goicoechea, Luis Gil; University of California, Davis

ORAL PRESENTATIONS: MONDAY MORNING ◀

Session 10d 10:30am-12pm, Monday—Ayres 120 Quantitative Genetics – Animals

(Moderator: Stevan J. Arnold)

- 10:30 Evidence that selection stabilizes the G-matrix
Stevan J. Arnold, Brittany S. Barker, Patrick C. Phillips, Michael E. Pfrender; Oregon State University
- 10:45 The evolution of covariance structure: variation within and among *Melanoplus* species
Derek Anthony Roff, Timothy Mousseau; University of California, Riverside
- 11:00 Trade-offs between growth and reproduction: evidence in domestic animals
Natalia Sokolovska; McGill University
- 11:15 Variation and heritability of stripe pattern in the zebrafish, *Danio rerio*
Victoria Louise Pritchard, Roger K. Butlin; New Mexico State University
- 11:30 Understanding the regulation of sources of variance: the *Manduca sexta* model
Goggy Davidowitz, H. F. Nijhout; University of Arizona
- 11:45 Multivariate selection and genetic constraints—another perspective
F. James Rohlf; State University New York at Stony Brook

Session 10e 10:30am-12pm, Monday—Holt 170 Reproductive Isolation – Mechanisms

(Moderator: Shanna Carney)

- 10:30 Comparing the estimation properties of sexual isolation statistics
Emilio Rolán-Alvarez, A. Perez-Figueroa, A. Caballero; University of Vigo
- 10:45 Conspecific sperm precedence in tropical sea urchins
Steve Palumbi, Laura B. Geyer; Stanford University
- 11:00 Evolution of mate recognition in sticklebacks
Jenny Boughman, H. R. Rundle, D. Schlüter; University of Wisconsin, Madison
- 11:15 Hybrid breakdown in population crosses: environmental influences on incompatibilities
Christopher Scott Willett, Ronald S. Burton; University of North Carolina at Chapel Hill
- 11:30 Male courtship pheromones: component variation among closely related salamander species
Catherine Anne Palmer, Lynne D. Houck, Pamela W. Feldhoff, Richard C. Feldhoff; Oregon State University
- 11:45 Pollinator constancy and hybridization in Colorado locoweeds (*Oxytropis*)
Shanna E. Carney, Linda K. Courter, M. Brooke Byerley; Colorado State University

Session 10f 10:30am-12pm, Monday—Kendall 207/209 Sexual Selection – Arthropods

(Moderator: Edward H. Morrow)

- 10:30 Costly traumatic insemination and a female counteradaptation in bed bugs
Edward Hugh Morrow; University of California, Santa Barbara
- 10:45 Diversity in the weapons of sexual selection: horn evolution in the beetle genus *Onthophagus* (Coleoptera: Scarabaeidae)
Douglas J. Emlen, Jennifer Marangelo, Clifford Cunningham; University of Montana
- 11:00 Female multiple mating in *Tribolium castaneum*
Aditi G. Pai, Guiyun Yan; State University of New York at Buffalo
- 11:15 Linkage between genes for eye-stalk length and meiotic drive in the fly, *Cyrtodiopsis dalmanni*
Gerald S. Wilkinson, Philip M. Johns; University of Maryland
- 11:30 Sexual conflict in zeus bugs
Göran Arnqvist; University of Uppsala

► ORAL PRESENTATIONS: MONDAY MORNING / AFTERNOON

11:45	Sperm survival in female stalk-eyed flies depends on seminal fluid and meiotic drive Catherine L. Fry ; University of Maryland, College Park	
Session 10h	10:30am-12pm, Monday—Plumas 102 Phylogeography Mammals/Molluscs/Misc.	(Moderator: Natalia M. Belfiore)
10:30	Evolutionary divergence among isolated tui chub (<i>Siphateles bicolor</i>) populations: a biogeographical analysis using allozymes, AFLPs and mitochondrial DNA Natalia Marie Belfiore, M. J. Bagley, E. Waits, B. P. May ; Museum of Vertebrate Zoology, University of California, Berkeley	
10:45	Hares on ice: phylogeography of arctic hares Eric C. Waltari, Joseph A. Cook ; Idaho State University	
11:00	Marten population structure across a fragmented landscape Maureen P. Small, Karen Stone, Joseph Cook ; Washington State Department of Fisheries	
11:15	Phylochronology: the many uses of temporal genetic data for understanding biodiversity Elizabeth Anne Hadly, Marcel van Tuinen, Yvonne Ling-Hsiang Chan ; Stanford University	
11:30	Phylogeography and demographic history of a Beringian rodent Kurt Egan Galbreath ; Cornell University	
Session 11a	1:15-3pm, Monday—Performing Arts Center (PAC) 134 Evolutionary Genetics V.	(Moderator: Daniel E. Neafsey)
1:15	Opsin evolution in pufferfish Daniel Edward Neafsey, Daniel L. Hartl ; Harvard University	
1:30	Patterns of microsatellite evolution using reciprocal comparisons within a known phylogeny Colleen Marie Ingram, H. Burda, C. A. Gill, R. L. Honeycutt ; Texas A&M University	
1:45	Patterns of selection across multiple levels of a pheromone signalling system Stevan J. Arnold, C. A. Palmer, R. C. Feldhoff, P. W. Feldhoff, L. D. Houck, A. G. Jones, M. E. Pfrender, S. M. Rollmann ; Oregon State University	
2:00	Phylogeography and its relationship to PGI variation in a sierra willow leaf beetle Shannon L. Fearnley, Nathan E. Rank, Patrick Mardulyn ; Sonoma State University	
2:15	Plant domestication and the evolution of recombination: a meta-analysis Jeffrey Stuart Ross-Ibarra ; University of Georgia	
2:30	Reduced diversity of a Y-linked gene in the plants <i>Silene latifolia</i> and <i>S. heuffelii</i> : implications for Y-chromosome degeneration Dmitry Alexandrovich Filatov, Joseph Edward Ironside ; University of Birmingham	
2:45	The chromosomal basis of outbreeding depression in the copepod <i>Tigriopus californicus</i> Scott Harrison, Suzanne Edmonds ; University of Southern California	
Session 11b	1:15-3pm, Monday—Holt 170 Molecular Systematics – Birds	(Moderator: Robert G. Moyle)
1:15	A re-examination of trogon relationships: incongruence between two linked genes Robert Glen Moyle ; American Museum of Natural History	
1:30	Bayesian analysis of nuclear and mitochondrial genes resolves relationships among genera in the large shorebird clade (Charadriiformes) Sergio L. Pereira, Tara A. Paton, Allan J. Baker ; Royal Ontario Museum - CBCB	
1:45	Biogeography of Eastern Polynesian monarchs (Pomarea): an endemic genus close to extinction Alice Cibois, Jean-Claude Thibault, Eric Pasquet ; Natural History Museum of Geneva	

ORAL PRESENTATIONS: MONDAY AFTERNOON ◀

- 2:00 Evolution of ornamentation in the Phasianidae: implications from molecular phylogenetics.
Rebecca T. Kimball, Edward L. Braun; University of Florida
- 2:15 Molecular phylogenetics of raptorial birds
Michael J. Braun, Andreas Helbig, Meade Krosby; Smithsonian Institution
- 2:30 Molecular phylogeny of the lorises (Psittaciformes: Loriinae): unraveling an old puzzle
Devorah A. N. Bennu; American Museum of Natural History
- 2:45 Population history of bearded manakins (Manacus; Aves) inferred from nuclear SNPs
Robb Brumfield, David E. Lum, Scott Vernon Edwards; University of Washington

Session 11c 1:15-3pm, Monday—Performing Arts Center (PAC) 144
Phylogeny Based Comparative Methods

(Moderator: Kenneth H. Kozak)

- 1:15 Comparative analysis of ecological diversification in southern Appalachian dusky salamanders
Kenneth H. Kozak, Allan Larson; Washington University
- 1:30 Minimum evolution is less robust in theory than neighbor joining
Stephen Jeffrey Willson, Iowa State University
- 1:45 Phylogenetic comparisons of microbial communities from serpentine and non-serpentine soils
David K. Oline; Southern Oregon University
- 2:00 Understanding the divergence of duplicated genes: molecular evolution of the gene *tufA* in the Coleochaetales
Jill Marie Ricker, Charles Francis Delwiche, Jeffrey D. Lewandowski; University of Maryland, College Park
- 2:15 Testing evolutionary hypotheses using a nested model approach
Marguerite A. Butler, Aaron King; University of Tennessee

Session 11d 1:15-3pm, Monday—Ayres 106
Population Genetics – Plants II.

(Moderator: Kristina Huffard)

- 1:15 Gene flow in *Sabatia campestris* (Gentianaceae)
Sheila Ann Lyons-Sobaski, S. H. Berlocher, J. E. Beever; University of Illinois at Urbana-Champaign
- 1:30 Geographic patterns of inbreeding depression in an invasive species
Maia Bailey, David E. McCauley; Vanderbilt University
- 1:45 Paternity and gene flow at three early life stages in the tropical tree, *Platypodium elegans*
Kristina Huffard, J. L. Hamrick; University of California, Santa Barbara
- 2:00 Patterns of AFLP diversity among wild European populations of *Arabidopsis thaliana*
Jeffrey Dole, Mitch Cruzan, Massimo Pigliucci; University of Tennessee
- 2:15 Patterns of nucleotide variation between the close related species *Arabidopsis halleri* and *A. lyrata*
Sebastian Ernesto Ramos-Onsins, Barbara E. Stranger, Thomas Mitchell-Olds, Montserrat Aguade; Max Planck Institute for Chemical Ecology
- 2:30 Population differentiation in a marine phytoplankton: dispersal vs. selection
Tatiana Rynearson, E. V. Armbrust; University of Washington

Session 11e 1:15-3pm, Monday—Ayres 120
Population Genetics – Theory I.

(Moderator: Alexandre Ding)

- 1:15 Influence of the genetic architecture on the maintenance of polymorphism under genotypic selection
Alexandre Ding, J. Goudet; Institute of Ecology, University of Lausanne
- 1:30 Limits on the evolution of genetic canalization in genetic networks
Stephen Robert Proulx, Patrick C. Phillips; University of Oregon

► ORAL PRESENTATIONS: MONDAY AFTERNOON

- 1:45 Maternal selection with genomic imprinting
Hamish G. Spencer; University of Otago
- 2:00 Meiotic drive and sex chromosome cycling
David Wayne Hall; University of Texas at Austin
- 2:15 Modeling gene flow in heterogeneous landscapes: analogies from circuit theory
Brad McRae; Northern Arizona University
- 2:30 Statistical properties of a novel linked molecular marker system (SNPSTRs): investigations using coalescent simulations
Uma Ramakrishnan, Joanna L. Mountain; Stanford University
- 2:45 Studying dispersal in continuous habitats using the geographic distribution of low-frequency alleles
John Novembre, Montgomery Slatkin; University of California, Berkeley

Session 11f

1:15-3pm, Monday—Kendall 207/209

Quantitative Genetics/Phenotypic Plasticity – Plants

(Moderator: Kelly Gallagher)

- 1:15 Artificial selection perpendicular to the major axis of a pleiotropic correlation: lack of evidence for strong evolutionary constraint
Jeffrey K. Conner, Heather Farrah Sahli, Christy Stewart, Keith Karoly; Michigan State University
- 1:30 Field-based estimates of quantitative genetic parameters using maximum likelihood estimates of pairwise relatedness
Kelly Gallagher, B. G. Milligan, P. S. White; New Mexico State University
- 1:45 An experimental separation of overhead and lateral shade avoidance responses in *Impatiens capensis*
Eric Jeremiah von Wettberg, Johanna Schmitt; Brown University
- 2:15 The evolution of sun/shade physiology, or why G matrices don't work
Kent Holsinger, M. Shane Heschel; University of Connecticut
- 2:30 The influence of germination timing on the evolution of life-history traits in *Arabidopsis thaliana*
Kathleen Donohue, Lisa A. Dorn, Anna Aguilera, Converse Griffith, Robin Hopkins, Eunsuk Kim, Johanna Schmitt; Harvard University
- 2:45 The cost of seasonal plasticity in leaf composition in a perennial violet
Alice A. Winn, Ken Susumu Moriuchi; Florida State University

Session 11g

► SYMPOSIUM, 1:15-3pm, Monday—Laxson Auditorium

Education Symposium (Sponsored by the Education Committee of the SSE)

Sponsored by the Education Committee of the SSE, the purpose of this symposium is to explore how evolutionary principles are or can be applied in career tracks outside of academia. Speakers will address the application of evolutionary biology to a range of areas, including disease control, genomics, risk assessment, and entrepreneurship. (**Open to the public**)

- 1:15-1:30 Introduction: the added value of training in evolutionary biology
Thomas Meagher; School of Biology, University of St. Andrews, UK
- 1:30-2:00 Phylogenomics: using evolution as a tool in genome studies
Jonathon Eisen; Department of Microbial Genomics, The Institute for Genomics Research, Rockville, MD
- 2:00-2:30 Viral evolution: worldwide monitoring and eradication of poliovirus
Olen Kew; Center for Disease Control, Atlanta, GA
- 2:30-3:00 Evolutionary biology applied to risk assessment and management in agricultural systems
Sally McCammon; USDA Animal and Plant Inspection Service, Washington DC

► Note: Symposium (Session 11g) is continued after the break as Session 12g

ORAL PRESENTATIONS: MONDAY AFTERNOON ◀

Session 12a 3:30-5:30pm, Monday—Performing Arts Center (PAC) 134
Evolutionary Genetics VI.

(Moderator: William E. Bradshaw)

- 3:30 Geographic variation in the expression of *timeless*, a critical component of the circadian clock
Derrick K. Mathias, Lucien A. Jacky, William E. Bradshaw, Christina M. Holzapfel; University of Oregon
- 3:45 The effect of gene x genetic background interactions on fitness
Chrissy Spencer, Daniel Promislow; University of Georgia
- 4:00 The genetic basis of parallel evolution of plant architecture in Brassicaceae
David A. Baum, Ho-Sung Yoon, Rebecca L. Oldham; University of Wisconsin, Madison
- 4:15 Wild radish in California: stabilized introgression
Subray G. Hegde, John D. Nason, Janet Clegg, Norman C. Ellstrand; University of California, Riverside
- 4:30 The contribution of epistasis to adaptive differentiation in the legume *Chamaecrista fasciculata*
Charles B. Fenster, David Erickson; University of Maryland
- 4:45 The cost of white flowers: pleiotropy and the evolution of floral color
L. C. Coberly and M. D. Rausher; University of Idaho
- 5:00 Effects of habitat specific structure and diet on phenotypic plasticity in Eurasian perch, *Perca fluviatilis*
Jens Olsson and Peter Eklöv; Uppsala University, Sweden
- 5:15 Polyploidy in *Pipanacoctomys aureus* (Rodentia, Octodontidae)
M. Gallardo, G. Kausel, C. Bacquet, A. Jimenez, N. Kohler, R. Ojeda; Institute of Ecology and Evolution, University Austral of Chile, Valdivia

Session 12b 3:30-5:30pm, Monday—Performing Arts Center (PAC) 144
Molecular Systematics – General

(Moderator: Andrew James Alverson)

- 3:30 Convergent evolution of morphology, ecology, and behavior in replicated radiations of SE Asian frogs
Rafe M. Brown; University of Texas at Austin
- 3:45 GapCoder automates the use of indel characters in phylogenetic analysis
Nelson D. (Ned) Young, John Healy; Duquesne University
- 4:00 Macroevolution differs between microbial prokaryotes and eukaryotes: inferences from gene trees
Andrew P. Martin; University of Colorado
- 4:15 Obtaining maximal phylogenetic data sets from sequence databases
Amy C. Driskell, O. Eulenstein, W. C. Chang, S. Langley, M. Sanderson; University of California, Davis
- 4:30 Simulations provide confidence limits for bootstrap proportions
Richard H. Zander; Missouri Botanical Garden
- 4:45 Species-level paraphyly: incidence and implications in animal mitochondrial DNA
Daniel J. Funk, Kevin Omland; Vanderbilt University
- 5:00 The phylogenetic relationship of neandertal and modern human mitochondrial DNAs based on informative nucleotide sites
Alec Knight; Stanford University
- 5:15 Phylogeny of the centric diatom family Thalassiosiraceae and their transition from marine to freshwater habitats
Andrew James Alverson, Edward C. Theriot; University of Texas at Austin

Session 12c 3:30-5pm, Monday—Holt 170
Phylogeography – Amphibians

(Moderator: Jason B. MacKenzie)

- 3:30 Comparative phylogeography of a rainforest restricted Australian skink
Jason B. MacKenzie, Craig Moritz; University of California, Berkeley

► ORAL PRESENTATIONS: MONDAY AFTERNOON

- 3:45 DNA, geography, and a giant toad; phylogeography and speciation in *Bufo marinus*
Alexander Vahan Robertson, James P. Bogart; University of Guelph
- 4:00 Glacial surfing in Coeur d'Alene salamanders
Bryan C. Carstens, Jack Sullivan; University of Idaho
- 4:15 Phylogeny and biogeography of frogs of the genus *Kaloula* from SE Asia, based on mtDNA sequences
Cameron D. Siler, Rafe M. Brown, Jim McGuire, Arvin Diesmos, David C. Cannatella; University of Texas at Austin
- 4:30 Do cold-adapted species require Pleistocene refugia? Phylogeographic history of the ruffed grouse in North America
Patricia Homem Brito, G. F. Barrowclough, J. G. Groth, R. J. Gutierrez; American Museum of Natural History

Session 12d 3:30-5:15pm, Monday—Ayres 106
Population Genetics – Theory II.

(Moderator: Gregory Wilson)

- 3:30 A simulation study of population assignment methods
Gregory A. Wilson, Bruce Rannala; University of Alberta
- 3:45 A Wahlund principle for multiple loci
Noah A. Rosenberg, Peter Calabrese; University of Southern California
- 4:00 Decomposing multi-locus linkage disequilibrium
Root Gorelick, Manfred Laubichler; Arizona State University
- 4:15 Estimating epigenetic components of heritability
Root Gorelick, Susan Bertram; Arizona State University
- 4:30 Genealogies in continuous habitats
Jon F. Wilkins; Harvard University
- 4:45 Glacial cycles, refugia and the coalescent
Flavia Fuchs de Jesus, Jon F. Wilkins, John Wakeley; Universidade Estadual de Campinas, Harvard University
- 5:00 Stabilizing selection on quantitative traits: implications for variation at individual QTLs
Christina Muirhead; Harvard University

Session 12e 3:30-5:15pm, Monday—Ayres 120
Sexual Selection – Other

(Moderator: Jordan Karubian)

- 3:30 Adaptive significance of variable plumage in an Australian passerine bird
Jordan Karubian; University of California, Los Angeles
- 3:45 Can sexual selection and antagonistic coevolution produce sex difference in autosomal recombination?
Patrick D. Lorch; University of Toronto
- 4:00 Complexity in mate choice: age- and context-related differences in females' use of male display traits
Gail L. Patricelli, Gerald Borgia; University of Maryland
- 4:15 Context-dependent honesty: developmental plasticity of sexual advertisement in a passerine bird
Alex Badyaev; University of Arizona
- 4:30 Divergent color patterns correspond with visual environments in bearded manakins
Albert Cruz Uy; San Francisco State University
- 4:45 Female guppies discriminate against previous mates
Anne E. Houde, Angie Eakley; Lake Forest College
- 5:00 Sex and the single *Daphnia*: a story of gender specialization
Alan James Tessier, Carla Caceres; National Science Foundation

ORAL PRESENTATIONS: MONDAY AFTERNOON ◀

Session 12f 3:30-5:30pm, Monday—Kendall 207/209
Speciation – Animals II.

(Moderator: Scott V. Edwards)

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- 3:30 Adaptive radiation of gall-inducing insects within a single host plant species: implications for speciation
Jeffrey Bruce Joy, Bernard J. Crespi; Simon Fraser University
- 3:45 Cascading host race formation across trophic levels: goldenrods, herbivorous insects, and their parasitoids
John Nason, John Stireman, Steve Heard; Iowa State University
- 4:00 Estimation of population divergence times in Australian finches using multiple SNP loci
Scott Vernon Edwards, Bryan Jennings; University of Washington
- 4:15 Evolutionary EST analysis of fertilization proteins in *Allonemobius*
Warren Evan Braswell; New Mexico State University
- 4:30 Gene expression and the diversification of Hawaiian crickets
Patrick D. Danley, Kerry Shaw; University of Maryland
- 4:45 Identifying behavioral barriers to gene flow: the phenotypic architecture of speciation
Tamra Carol Mendelson; University of Maryland
- 5:00 Mouse lemurs are older than you think
Anne Daphne Yoder, Ziheng Yang; Yale University
- 5:15 Pre-mating isolation between morphologically differentiated guppy populations
Heather Jane Alexander, Felix J. Breden; Simon Fraser University

Session 12g ▶ SYMPOSIUM, 3:30-5:30pm, Monday—Laxson Auditorium
Education Symposium (Sponsored by the Education Committee of the SSE)

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- 3:30-4:00 The virtues of an evolutionary biology education
Slavik Dushenkov; Wellgen, Inc., New Brunswick, NJ
- 4:00-4:30 Panel Discussion
- 4:30-5:30 **SSE PUBLIC UNDERSTANDING OF EVOLUTION LECTURE**
The challenge of intelligent design
Eugenie Scott; Director, National Center for Science Education, Oakland, CA

Proponents of “Intelligent Design Theory” have argued that their “theory” is distinguishable from creation science, yet convergence in philosophy, content, and methodology is apparent. But, whereas creation science appeals only to a maximum 30 percent of Americans, “ID” has the potential of appealing to a much wider audience and appears to have access to decision-makers unknown to creation science. Where does the ID movement stand and what can promoters of good science education do about it?

► ORAL PRESENTATIONS: TUESDAY MORNING

Session 13a 8:10am, Tuesday—Holt 170
Evolutionary Genetics – Microorganisms I. (Moderator: Sarah B. Joseph)

- 8:00 Estimating parameters of random mutations by mutation accumulation in *Saccharomyces cerevisiae*
Sarah B. Joseph, David Wayne Hall; University of Texas at Austin
- 8:15 Genes without frontiers
Douda Bensasson, Jeffrey Lynn Boore, Kaare M. Nielsen; DOE Joint Genome Institute
- 8:30 Horizontal acquisition of divergent chromosomal DNA: effects of mutator phenotypes
Jeffrey Peter Townsend, Kaare N. Nielsen, Daniel S. Fisher, Daniel L. Hartl; University of California, Berkeley
- 8:45 Nuclear-mitochondrial interactions in evolving yeast populations
Clifford Zeyl, Bethany Andeson, Emily Wenink; Wake Forest University
- 9:00 PanF as a potential mechanism for vitamin provisioning in endosymbiotic bacteria of weevils
Gordon R. Plague, Nancy A. Moran; University of Arizona
- 9:15 Phylogenetic and structural analysis of 16S rRNA operon from diverse endosymbiotic and free-living gamma-3 proteobacteria
Patrick H. Degnan, Joshua T. Herbeck, Jennifer Jo Wernegreen; Marine Biological Laboratory, Josephine Bay Paul Center
- 9:30 Phylogenetic evidence against horizontal transfer of the lac operon into *E. coli*
Daniel Mathew Stoebel; State University New York at Stony Brook
- 9:45 Plastid function in a parasitic alga: evolution where the sun don't shine
Audrey Patricia de Koning; University of British Columbia

Session 13b 8:10am, Tuesday—Ayres 120
Experimental Evolution (Moderator: Cheryl H. Vanier)

- 8:00 Effects of desiccation and starvation stress on gene expression in *Drosophila melanogaster*
Cheryl H. Vanier, Allen Gibbs; University of Arizona
- 8:15 Population differences in stress-induced gene expression
Allen G. Gibbs, Cheryl H. Vanier; University of Arizona
- 8:30 Responses to divergent selection for development in experimental populations of *Bacillus subtilis*
Heather Maughan, Wayne L. Nicholson, C. William Birkby, Jr.; University of Arizona
- 8:45 The evolution of mixed species bacterial biofilms
Lauren Ancel Meyers; University of Texas at Austin
- 9:00 The genomic response to domestication in bacteriophage
Stanley Brian Caudle, Darin Rene Rokyta, Holly A. Wichman; University of Idaho
- 9:15 Trade-offs in foraging activity and energy requirements mediate life-history evolution in *Drosophila*
Laurence Dochez Mueller, Ngoc Nguyen, Donna Folk, Timothy Bradley; University of California, Irvine

Session 13c 8:10am, Tuesday—Ayres 106
Genome Evolution I. (Moderator: Ze Zhang)

- 8:00 Asymmetry in evolutionary rate of duplicated genes and purifying selection
Ze Zhang, Hirohisa Kishino; University of Tokyo
- 8:15 Comparative genomics and the evolution of cichlid fish species flocks
Axel Meyer; University of Konstanz, Germany
- 8:30 Comparative recombination rates in mammals
Michael Ignatius Jensen-Seaman, C.-F. Chen, M. A. Thomas, N. Nie, H. J. Jacob; Medical College of Wisconsin

ORAL PRESENTATIONS: TUESDAY MORNING ◀

- 8:45 Comparing the whole genome sequences of two oomycetes—*Phytophthora sojae* and *P. ramorum*
Jeffrey Lynn Boore, Douda Bensasson, Susan Lucas, Paul Richardson, Jarrod Chapman, Daniel Rokhsar, Brett Tyler; DOE Joint Genome Institute, University of California, Berkeley
- 9:00 Contrasting evolutionary histories of L1 retrotransposons in mammalian and teleost genomes
David D. Duvernall; Southern Illinois University Edwardsville
- 9:15 Dramatic sequence turnover at an unconstrained fourth chromosome locus in *Drosophila*
Nadia Dolly Singh, Dmitri A. Petrov; Stanford University
- 9:30 Endosymbiosis and the evolution of the dinoflagellate nucleus
Debashish Bhattacharya, Hwan Su Yoon, Jeremiah Daniel Hackett; University of Iowa
- 9:45 Evolution of genome size, developmental rate, and body size in copepods
Grace A. Wyngaard, Ellen Rasch, Carlos da Rocha; James Madison University

Session 13d 8-10am, Tuesday—Performing Arts Center (PAC) 134

Life History Evolution – Vertebrates

(Moderator: Ronald M. Bonett)

- 8:00 Evolution of paedomorphosis in Ozark salamanders of the *Eurycea tynerensis/griseogaster* group
Ronald Michael Bonett, Paul T. Chippindale; University of Texas at Arlington
- 8:15 Life-history evolution and locomotor performance in Trinidadian guppies
Cameron K. Gharambor, David N. Reznick; University of California, Riverside
- 8:30 Multiple developmental mechanisms determine body size in spadefoot toad tadpoles
Jeff David Arendt; University of California, Riverside
- 8:45 Phylogeny and life history evolution of the terns
Eli Samuel Bridge, Andrew W. Jones, Allan J. Baker; University of Minnesota
- 9:00 Stochastic weather can maintain variation in tree swallow (*Tachycineta bicolor*) breeding dates
Benjamin Nichols Taft, David Winkler; University of Massachusetts
- 9:15 The evolutionary history of Bergmann's rule in tetrapods
Kyle G. Ashton, Alan de Queiroz; Archbold Biological Station
- 9:30 Adaptive divergence in New Zealand salmon and the fitness value of contemporary evolution
Michael T. Kinnison, Martin Unwin, Thomas Quinn; University of Maine

Session 13e 8-10am, Tuesday—Performing Arts Center (PAC) 144

Molecular Systematics – Vertebrates II.

(Moderator: Ole Madsen)

- 8:00 Marsupionta versus Theria: a nuclear view
Ole Madsen, Teun van Rheede, Trijntje Bastiaans, Wilfried W. de Jong, David N. Boone, S. Blair Hedges; University of Nijmegen
- 8:15 Molecular dating display an independent colonization of South America by primates and rodents
Celine Poux, Pascale Chevret, Dorothée Huchon, Wilfried W. De Jong, Emmanuel J. P. Douzery; Katholieke Universiteit Nijmegen
- 8:30 Molecular phylogenetics of the snapping turtle, *Chelydra serpentina*: species boundaries, range expansion and selective sweeps
Matthew Kenji Fujita, David Starkey; University of California, Davis
- 8:45 Molecular phylogeny of monachine seals with implications for their origin and diversification
Carrie A. Fyler, T. Reeder, A. Berta, G. Antonelis, A. Aguilar; San Diego State University
- 9:00 Molecular systematics and biogeography of Cottoids
Andrew P. Kinziger, Robert M. Wood, David A. Neely; Saint Louis University

► ORAL PRESENTATIONS: TUESDAY MORNING

- 9:15 Molecular systematics of New Caledonia's endemic scincid lizards
Sarah A. Smith, Ross Sadlier, Aaron Bauer; Villanova University
- 9:30 Molecular systematics of primary reptilian lineages and the tuatara mitochondrial genome
David P. Mindell, Joshua S. Rest, Jennifer C. Ast, Christopher C. Austin, Peter J. Waddell, Elizabeth A. Tibbetts, Jennifer M. Hay; University of Michigan
- 9:45 Patterns of nucleotide evolution in mitochondrial genes and genomes
Richard E. Broughton; University of Oklahoma

Session 13f 8-10am, Tuesday—Kendall 207/209 Phylogeography – Arthropods

(Moderator: Dennis L. Peterson)

- 8:00 Assessing concordance between phylogeography and reproductive barriers in the intertidal copepod *Tigriopus californicus*
Dennis L. Peterson; University of Southern California
- 8:15 Cryptic speciation on the High Seas: ubiquitous or unique?
Erica Goetze; Scripps Institution of Oceanography, University of San Diego
- 8:30 Cycles of population fragmentation and expansion from multiple interglacial refugia inferred for the Rocky Mountain butterfly, *Parnassius smintheus* (Papilionidae)
Eric Gerald DeChaine, Andrew P. Martin; University of Colorado
- 8:45 Genetic clines in an intertidal barnacle: restricted dispersal along the California coastline
Erik E. Sotka, John P. Wares, Rick Grosberg, Steve Palumbi; University of California, Davis
- 9:00 Phylogeography of lice hosted by pocket gophers
Mark Hafner, Sara Vanessa Brant; Louisiana State University
- 9:15 Phylogeography of the mahogany Jerusalem cricket in Southern California
Amy G. Vandergast, David Weissman, Michael Caterino, Robert Fisher; USGS
- 9:30 Phylogeography of three Sonoran Desert cactophilic *Drosophila*
Luis A. Hurtado, Tamar Erez, Sergio Castrezana, Therese A. Markow; University of Arizona
- 9:45 Speciation and diversity of Caribbean marine ostracodes (Cypripinidae: Myodocopida)
Elizabeth Torres, D. G. Valdez; California State University, Los Angeles

Session 13g 8-10am, Tuesday—Laxson Auditorium Speciation – General

(Moderator: Sergey Gavrilets)

- 8:00 On models of sympatric speciation
Sergey Gavrilets; University of Tennessee
- 8:15 Reproductive isolation driven by the combined effects of ecological adaptation and reinforcement
Patrik Nosil, C. P. Sandoval; Simon Fraser University
- 8:30 Selective mating and constraints on sympatric speciation
Scott L. Nuismer, Mark Kirkpatrick; University of Texas
- 8:45 Symbiont adaptation in an environmentally transmitted squid/Vibrio mutualism
Michele K. Nishiguchi, Bryan Wesley Jones; New Mexico State University
- 9:00 Where are they from? The evolutionary history of Caribbean mammals
Liliana M. Dávalos; American Museum of Natural History
- 9:15 The biogeography of mammalian speciation
Michael Turelli; University of California, Davis

ORAL PRESENTATIONS: TUESDAY MORNING ◀

- 9:30 Understanding discordant gene genealogies in the European corn borer in the context of the genetic architecture of sexual isolation

Erik Bryant Dopman, Richard G. Harrison, Steven Bogdanowicz; Cornell University

- 9:45 Variation in introgression of X chromosomal regions across a European hybrid zone of house mice

Bret Allen Payseur, James Krenz, Michael W. Nachman; University of Arizona

Session 14a 10:30am-12pm, Tuesday—Holt 170
Evolution Genetics – Microorganisms/Nematodes (Moderator: James Lloyd-Smith)

- 10:30 Use of evolutionary conserved regions in serine protease genes to identify sequence homologs in rumen bacteria

Michele Kiyoko Nishiguchi, Tushun Powers; New Mexico State University

- 10:45 Why do different bacterial species share common DNA

Mohammed Bakkali, T. Y. Chen, H. C. Lee, R. J. Redfield; University of British Columbia

- 11:00 Genetic variation, inbreeding depression and mating systems in nematodes (*Caenorhabditis* sp.)

Patrick C. Phillips, Bevery Ajie; University of Oregon

- 11:15 Invasion of infectious diseases into heterogeneous populations

James O. Lloyd-Smith, P. C. Cross, W. M. Getz; University of California, Berkeley

Session 14b 10:30am-12pm, Tuesday—Ayres 120
Experimental Evolution – Microorganisms (Moderator: Marianne Imhof)

- 10:30 900 generations of evolution of a conjugative plasmid in *E. coli*

Marianne Imhof, Mathias Müller, Hua Wang, Martina Weiss, Christian Schlötterer; Institute of Animal Breeding and Genetics, University of Veterinary Medicine Vienna

- 10:45 Diversity in relation to productivity and disturbance in experimental populations of bacteria

Rees M. Kassen; University of Oxford

- 11:00 Effects of sex and mutation rate on yeast adaptation to mice

Brian Terence Grimberg, Clifford Zeyl; Wake Forest University

- 11:15 Experimental analysis of epistasis and drift load in bacteriophage PhiX174

Olin K. Silander, Olivier Tenaillon, Lin Chao; University of California, San Diego

- 11:30 Experimental evolution of senescence in a bacterium

Martin Karl Ackermann, Stephen C. Stearns, Urs Jenal; University of California, San Diego

- 11:45 Experimental selection for cheating in a mutualistic symbiont

Joel Lawrence Sachs, Thomas P. Wilcox; University of Texas

Session 14c 10:30am-12pm, Tuesday—Ayres 106
Genome Evolution II. (Moderator: Peik Haugen)

- 10:30 Evolution of homing endonuclease genes and Group I Introns in nuclear rDNA

Peik Haugen, Valérie Reeb, Francois M. Lutzoni, Debashish Bhattacharya; University of Iowa

- 10:45 Evolution of satellite DNA and characterization of other DNA fragments isolated from the Y chromosome of a mosquito

Anopheles gambiae (Diptera, Culicidae)

Jaroslaw Krzywinski, Nora J. Besansky; University of Notre Dame

- 11:00 Evolutionary implications of the highly rearranged chloroplast genome of *Pelargonium* (Geraniaceae)

Timothy Wayne Chumley, Jeffrey Lynn Boore, H. Matthew Fourcade, Robert K. Jansen, Patrick Caile, Jeffrey Mower, Jeffrey Palmer; DOE Joint Genome Institute, UT

- 11:15 Factors that determine the location of recombination hot and cold spots in the yeast *Saccharomyces cerevisiae*

John Anthony Birdsell; University of Arizona

► ORAL PRESENTATIONS: TUESDAY MORNING

- 11:30 GRAPPA: Large-scale whole genome phylogenies, based upon gene order evolution
Tandy Jo Warnow, Bernard Moret, Jijun Tang; University of Texas at Austin
- 11:45 Highly accelerated mutation rate specific to the mitochondrial genome in *Plantago*
Jeffrey Paul Mower, Yangrae Cho, Yin-Long Qiu, Jeffrey D. Palmer; Indiana University Bloomington

Session 14d 10:30am-12pm, Tuesday—Performing Arts Center (PAC) 144 Molecular Systematics – Plants

(Moderator: Andrea Weeks)

- 10:30 Duplicated nuclear genes reveal a complex evolutionary history of the Andean tree *Polylepis* (Rosaceae)
Malin S. Kerr, Charles F. Delwiche, Torsten Eriksson; University of Maryland
- 10:45 Evolutionary implications of new phylogenies for the plant clade Dipsacales
Michael J. Donoghue, Charles Bell, Richard Winkworth; Yale University
- 11:00 Gondwanan biogeographies reexamined: an example using fossil calibration of DNA sequence data from the pantropical tree family, Burseraceae
Andrea Weeks, Beryl B. Simpson; University of Texas at Austin
- 11:15 Hidden diversity of Cyanidiales in extreme environment
Debashish Bhattacharya, Hwan Su Yoon, Claudia Ciniglia, Gabriele Pinto, Antonino Pollio; University of Iowa
- 11:30 Inference of vascular plant deep phylogeny with a large multigene plastid data set
Hardeep Singh Rai, S. W. Graham; University of Alberta
- 11:45 Molecular phylogenetics of *Pinus* (Pinaceae): implications for northern hemisphere biogeography
Andrew J. Eckert, Benjamin D. Hall; University of Washington

Session 14e 10:30am-12pm, Tuesday—Performing Arts Center (PAC) 134 Population Genetics – Animals II.

(Moderator: Eric A. Hoffman)

- 10:30 An analysis of selection on a color polymorphism in the northern leopard frog
Eric A. Hoffman; Georgia Institute of Technology
- 10:45 Antarctic journeys: gene flow in a philopatric seabird revealed by neutral loci
Scott V. Edwards, Monica Carneiro Silva; University of Washington
- 11:00 Catching selective sweeps in the act: a putative adaptive knock-out of a conserved gene in *Drosophila melanogaster*
Yael Tova Salzman, Dmitri A. Petrov; Stanford University
- 11:15 Conservation genetics and evolution of quantitative trait markers in *Gila* trout
John P. Wares, T. F. Turner; University of California, Davis
- 11:30 Effects of breeding system, ecological factors, and historical events on the population structure of the eusocial naked mole-rat, *Heterocephalus glaber*
Jon Eric Hes, Stanton Braude, Alan R. Templeton; Washington University
- 11:45 Evidence of founder effect in a North Atlantic island population
Christopher R. Tillquist, E. Árnason, H. Sigurgíslason, M. Hammer; University of Louisville

Session 14f 10:30am-12pm, Tuesday—Kendall 207/209 Sexual Selection – Other

(Moderator: Valerie Foster)

- 10:30 Manipulation of female condition in the zebra finch, *Taeniopygia guttata*, reveals adaptive changes in mate selectivity
Valerie Suzanne Foster, Nancy Burley; University of California, Irvine
- 10:45 Mate choice preferences obtained by sexual imprinting can cause directional sexual selection pressures in zebra finches
Machteld N. Verzijden, Eric Etman, Carel ten Cate; Leiden University
- 11:00 Ornamentation in tufted puffins: natural variation
Gwyllum S. Blackburn, J. Mark Hipfner, Ronald C. Ydenberg; Simon Fraser University

ORAL PRESENTATIONS: TUESDAY AFTERNOON ◀

- 11:15 Sexual selection, the role of males and germline informational integrity
Wirt Atmar; AICS Research, Inc., Field Museum of Natural History
- 11:30 Sperm precedence in a salamander: does size really matter?
Erika Marie Adams; Oregon State University
- 11:45 The interaction between sexual selection and reinforcement in *Drosophila serrata*
Megan Higgle; University of Queensland

Session 14g 10:30am-12pm, Tuesday—Laxson Auditorium
Self-incompatibility – Plants

(Moderator: Tasha LaDoux)

- 10:30 A phylogenetic perspective of self-incompatibility in Polemoniaceae
Tasha LaDoux, Elizabeth A. Friar; Ranch Santa Ana Botanical Garden
- 10:45 Dominance interactions in self-incompatibility alleles of *Arabidopsis lyrata*
Nadia Louise Prigoda, Barbara Mable; University of Guelph
- 11:00 Inheritance and dominance of self-incompatibility alleles in tetraploid *Arabidopsis lyrata*
Barbara Kim Mable; University of Guelph
- 11:15 Life-history evolution and an Allee effect in an invasive species
Heather Graham Davis, C. M. Taylor, J. C. Civille, D. R. Strong; University of California, Davis

Session 15a 1:15-3pm, Tuesday—Ayres 120
Macroevolution – Animals

(Moderator: John Alroy)

- 1:30 Evolutionary shifts in the trophic diversity of mammals: clues from the world's dumbest ecomorphospace
John Alroy; University of California, Santa Barbara
- 1:45 Lack of niche conservatism in the evolution of a Caribbean lizard community
Jonathan B. Losos; Washington University in St. Louis
- 2:00 Simulations of evolutionary radiations and their application to understanding the probability of a Cambrian explosion
Jeffrey S. Levinton, Lindsey Dubb, Gregory Wray; State University New York at Stony Brook
- 2:15 The phylogeny of extant and fossil zeomorph-like fishes (Zeiformes, Caproiformes, Tetraodontiformes) and the K/T extinction
Francesco Santini; University of Toronto

Session 15b 1:15-3pm, Tuesday—Ayres 106
Genome Evolution III.

(Moderator: Ulfar Bergthorsson)

- 1:15 Horizontal transfer of mitochondrial genes in flowering plants
Ulfar Bergthorsson; Indiana University
- 1:30 LINE-1 retrotransposons in *Tokudaia osimensis*, a spiny rat with an XO karyotype
LuAnn Scott, Holly A. Wichman, Yoichi Matsuda; University of Idaho
- 1:45 Mitochondrial genome evolution in insects
Stephen L. Cameron, Michael F. Whiting, Steven C. Barker; Brigham Young University
- 2:00 Molecular evolution at sites of intron insertion
Dawn M. Simon, Jian Huang, Josep M. Comeron, Debashish Bhattacharya; University of Iowa
- 2:15 Molecular evolution of the human and ape pseudoautosomal region
Dmitry Alexandrovich Filatov, Ravinder Kanda; University of Birmingham, UK
- 2:30 Mutable motifs of mice and men (and maybe more)
Alexander Platt; Harvard University

► ORAL PRESENTATIONS: TUESDAY AFTERNOON

- 2:45 Patterns of transitional mutation biases within and among mammalian genomes
Michael S. Rosenberg, Sankar Subramanian, Sudhir Kumar; Arizona State University

Session 15c 1:15-3pm, Tuesday—Performing Arts Center (PAC) 144 Phylogeography – Plants

(Moderator: Christopher Eckert)

- 1:15 Evolutionary genetics of biological invasion in a clonal aquatic plant
Christopher G. Eckert, Agnes Kliber; Queen's University
- 1:30 Inland invasion by *Solidago sempervirens*: population genetics and changes in distribution
Monica A. Geber, Ania M. Wieczorek; Cornell University
- 1:45 Mitochondrial phylogeographies of ponderosa pine and limber pine
Jeffry B. Mitton, Kristy Leigh Duran; University of Colorado
- 2:00 Molecular population genetics of the cosmopolitan moss *Ceratodon purpureus*
Stuart F. McDaniel, A. Jonathan Shaw; Duke University
- 2:15 Phylogeography of the piñon pine dwarf mistletoe, *Arceuthobium divaricatum*
Kristy Leigh Duran, Jeffry Bond Mitton; University of Colorado
- 2:30 The evolution of habitat specialization in Burseraceae in Amazonian forests
Paul Van Antwerp Fine, Douglas C. Daly, F. Gorky, M. Villa; University of Utah
- 2:45 The shape of genetic structure: graphs, cactii, and obligate pollinator
John Nason, Rodney Dyer; Iowa State University

Session 15d 1:15-3pm, Tuesday—Holt 170 Plant-Pollinator Interactions

(Moderator: Elizabeth Elle)

- 1:15 Aspects of pollen carryover and gene dispersal in *Mimulus ringens*
Karsten Holmquist, Jeffery Karron, Randy J. Mitchell; University of Wisconsin, Milwaukee
- 1:30 Asymmetric specialization: a pervasive feature of plant-pollinator interactions
Diego P. Vázquez, Marcelo A. Aizen; National Center for Ecological Analysis and Synthesis
- 1:45 Biogeography and evolution of floral host choice in Andrena bees
Leah L. Larkin, John L. Neff, Beryl B. Simpson; University of New Mexico
- 2:00 Do fitness trade-offs underlie adaptive syndromes? Optimal corolla flare in contrasting pollination environments
Paul A. Aigner; University of California, Davis
- 2:15 I'll have whatever she's not having: opposing forms of frequency-dependent pollination in color-polymorphic plant populations
Vince Eckhart, Naomi Marsh; Grinnell College
- 2:30 Optimality and allometry in the nectar foraging of the orchid bees (Apidae: Euglossini)
Brendan Jonathan Borrell; University of California, Berkeley
- 2:45 When 'too attractive' is best: a game-theoretic approach to floral display strategies
Elizabeth Elle, Jay M. Biernaskie; Simon Fraser University

Session 15e 1:15-3pm, Tuesday—Performing Arts Center (PAC) 134 Population Genetics – Animals III.

(Moderator: Robert A. Haney)

- 1:15 Gene flow and demography in Caribbean reef fishes: evidence from mitochondrial DNA sequence data
Robert Arthur Haney, Brian Silliman; Brown University
- 1:30 Genetic estimate of sex-specific dispersal in hierarchically structured populations
Nicolas Perrin, Pierre Fontanillas, Eric Petit; University of Lausanne, Switzerland

ORAL PRESENTATIONS: TUESDAY AFTERNOON ◀

- 1:45 Hyperpolymorphism and intragenic recombination from alternative unscrambling of the DNA polymerase gene of the ciliate *Stylonychia lemnae*
David H. Ardell, Catherine A. Lozupone, Laura F. Landweber; Uppsala University
- 2:00 Isolation by distance in the fence lizard *Sceloporus occidentalis*
Stephen C. Adolph, C. McFadden, C. Chan, E. Miles, E. Fu, C. Alef, B. Coin; Harvey Mudd College
- 2:15 Linkage disequilibrium in the Northern Caucasian, Yoruban, Han Chinese and Mixe Amerindian populations in six genomic regions
Kristie Acuna Mather, Michelle President, Simon Easteal, Jill Hollenbach, William Klitz, Gavin Huttley, Glenys Thomson; University of California, Berkeley
- 2:30 Natural habitat fragmentation limits genetic variation and gene flow in the endangered Amargosa vole, *Microtus californicus scirpensis*
Jennifer L. Neuwald; Washington University in Saint Louis
- 2:45 Population genetic structure of California sea mussel (*Mytilus californianus*) size classes: a test of Hedgecock's Sweepstakes Hypothesis
J. Engel, G. Fernardi; University of California, Santa Cruz

Session 15f 1:15-3pm, Tuesday—Kendall 207/209
Social Evolution – Arthropods

(Moderator: Kimberly Powers))

- 1:15 A comparative study of prey abundance and sociality in the spider genus *Anelosimus*
Kimberly Susan Powers; University of Arizona
- 1:30 Conflicts of interest in the paper wasp *Polistes dominulus*: a comparative study
Elisabeth Arevalo, Mark Brady, David C. Queller, Rita Cervo, Stefano Turillazzi, Joan Strassmann; Providence College
- 1:45 Expression patterns of the foraging (for) gene in Harvester ants (*Pogonomyrmex barbatus*)
Krista Kenyon Ingram, Deborah Gordon; Stanford University
- 2:00 Mechanisms of queen-worker conflict and sex allocation in social Hymenoptera
Ken R. Helms, Max Reuter, Laurent Keller; Texas A&M University
- 2:15 The evolution of recognition and social structure in the invasive Argentine ant (*Linepithema humile*)
Rick Grosberg, Neil Durie Tsutsui, Andrew V. Suarez; University of California, Davis
- 2:30 Variation in population genetic structure influences nestmate recognition abilities in subterranean termites
Kirsten Anne Copren; University of California, Davis

Session 15g 1:15-3pm, Tuesday—Laxson Auditorium
Plant Reproductive Biology

(Moderator: Susan Mazer)

- 1:15 A flower is a flower: comparing pollen:ovule ratios in early versus late flowers of *Clarkia xantiana* with contrasting mating systems
Veronique A. Delesalle, Susan J. Mazer; Gettysburg College
- 1:30 Responses to selection on male-phase duration in *Chamerion angustifolium*
Matthew B. Routley, Brian Husband; University of Guelph
- 1:45 Sexual system evolution in *Callirhoe* (Malvaceae)
Paula M. Hall, Timothy K. Lowrey, Diane L. Marshall; University of New Mexico
- 2:00 Selection for increased maleness in gynodioecious *Nemophila menziesii*
Camille Maria Barr; University of California, Irvine
- 2:15 Serpentine soils and *Collinsia sparsiflora*, a native California annual: does pollen movement overwhelm local adaptation
Jessica Wilcox Wright, Maureen Stanton, Rosa Scherson; University of California, Davis

► ORAL PRESENTATIONS: TUESDAY AFTERNOON

- 2:30 Sources of variation in the strength of self-incompatibility in a colonizing weed (*Solanum carolinense*)
Steve E. Travers, Andrew Stephenson, Jorge Mena; Pennsylvania State University

- 2:45 The genders, they are a-changing: ontogenetic change in the pollen:ovule ratios in *Clarkia* taxa of different mating systems
Susan J. Mazer, Veronique A. Delesalle; University of California, Santa Barbara

Session 16a 1:15-3pm, Tuesday—Performing Arts Center (PAC) 144
Molecular Systematics – Vertebrates III.

(Moderator: Rachel L. Mueller)

- 3:30 Phylogenetic relationships of plethodontid salamanders inferred from mitochondrial genomes
Rachel L. Mueller, J. Robert Macey, Matt Fourcade, Jennifer Kuehl, Martin Jaeckel, David B. Wake, Jeffrey Lynn Boore; University of California, Berkeley

- 3:45 Radiation of arctoid carnivores: phylogenetic inference of relationships among carnivore families using twenty-eight new complete mitochondrial genomes
Isabelle Delisle, Curtis J. Strobeck; University of Alberta

- 4:00 Reconstructing divergence dates for supertrees: a molecular approach
Rutger Aldo Vos; Simon Fraser University

- 4:15 Systematics of New Caledonian endemic geckos
Todd Richard Jackman, Aaron Bauer; Villanova University

- 4:30 Taxonomic chaos in Asian ranid frogs: an initial phylogenetic resolution
Andre Da Ngo, L. Q. Chen, R. W. Murphy, A. Lathrop, N. L. Orlov, C. T. Ho, I. L. M. Somorjai; Royal Ontario Museum/University of Toronto

- 4:45 What mitochondrial RNAs told us about vertebrate phylogeny
Cendrine Hudelot, Vivek Gowri-Shankar, Magnus Rattray, Paul Higgs; University of Manchester

Session 16b 1:15-3pm, Tuesday—Ayres 120
Social Evolution

(Moderator: Leticia Aviles)

- 3:30 A greenbeard gene in the social amoeba *Dictyostelium discoideum*
David C. Queller, Joan Strassmann, Eleonora Ponte, Salvatore Bozzaro; Rice University

- 3:45 Group-living buffers against inbreeding depression in a subsocial spider
Leticia Aviles, Todd Bukowski; University of Arizona

- 4:00 How animal babies regulate their parents, and vice versa
Mathias Koelliker; Indiana University

- 4:15 How many castes are there in social shrimp?
Eva Toth, J. E. Duffy; Virginia Institute of Marine Science

- 4:30 Prospects for inferring pairwise relationships with single nucleotide polymorphisms
Jeffrey Curtis Glaubitz, O. Eugene Rhodes Jr., J. Andrew DeWoody; Purdue University

- 4:45 Re-examining the evolution of Altruism in random groups
Jeffrey Alan Fletcher, Martin Zwick; Portland State University

Session 16c 1:15-3pm, Tuesday—Ayres 106
Genome Evolution IV.

(Moderator: Charles Delwiche)

- 3:30 Phylogeny and function of sodium channel genes in teleost fishes
David M. Hillis, Manda Clair Jost, Harold Zakon; University of Texas at Austin

- 3:45 Plastid-associated genes in dinoflagellates
Charles Francis Delwiche, Tsvetan Bachvaroff; University of Maryland

ORAL PRESENTATIONS: TUESDAY AFTERNOON ◀

- 4:00 Preferential duplication of conserved proteins in eukaryotic genomes
Jerel Clayton Davis; Stanford University
- 4:15 Rapid evolution of male-biased gene expression in *Drosophila*
Colin D. Meiklejohn, John Parsch, Jose M. Ranz, Daniel L. Hartl; Harvard University
- 4:30 Structure and evolution of two highly rearranged chloroplast genomes in the Campanulaceae
Romey Haberle, Jeffrey Lynn Boore, H. Matthew Fourcade, Robert K. Jansen, Stacia Wyman; DOE Joint Genome Institute, UT
- 4:45 Tracing the origin of ciliate scrambled genes: the legacy of DNA polymerase alpha
Wei-Jen Chang, Paul D. Bryson, Laura F. Landweber; Princeton University

Session 16d **1:15-3pm, Tuesday—Holt 170**
Speciation – Animals III.

(Moderator: Matthew Lewis Forister)

- 3:30 Oviposition preference and larval performance within a diverging lineage of lycaenid butterflies
Matthew Lewis Forister; University of California, Davis
- 3:45 Patterns of speciation in the rotifer species group *Brachionus plicatilis*
Elizabeth Suatoni, Sean Rice, Terry Snell; Yale University
- 4:00 Population structure and phylogenetics in the *Drosophila mojavensis* species group
Laura Katie Reed, Megan Nyboer, Therese Markow; University of Arizona
- 4:15 Postglacial radiations and losses of sexual traits in a group of passerine birds
Anders Ödeen, Per Alström, Mats Björklund; Simon Fraser University
- 4:30 Quantitative models of Fisherian sexual selection: simulating genetic drift and speciation
Louise Southern Mead, Stevan J. Arnold; Oregon State University
- 4:45 Reproductive character displacement across a contact zone in the Green-eyed Tree Frog (*Litoria serrata*)
Conrad Jules Hoskin, Craig Moritz; University of Queensland

Session 16e **1:15-3pm, Tuesday—Performing Arts Center (PAC) 134**
Population Genetics – Animals IV.

(Moderator: Timothy Wright)

- 3:30 Population genetic structure in a Neotropical parrot: comparing mtDNA and microsatellite variation
Timothy F. Wright, Robert C. Fleischer; Genetics Lab, Harvard Museum of Natural History, Smithsonian Institution
- 3:45 Population genetic structure of sexual and hybrid parthenogenetic geckos of the *Heteronotia binoei* complex
Jared Lee Strasburg, Alan R. Templeton; Washington University in St. Louis
- 4:00 Population structure and history of steelhead trout in California
John Carlos Garza; Southwest Fisheries Science Center
- 4:15 Population structure and levels of gene flow in the Great Basin rattlesnake (*Crotalus viridis lutosus*)
Daniel Willis Carpenter; Brigham Young University
- 4:30 Testing for evidence of geographically restricted selective sweeps in humans
Jay F. Storz, Bret A. Payseur, Michael W. Nachman; University of Arizona

Session 16f **1:15-3pm, Tuesday—Kendall 207/209**
Speciation – Plants

(Moderator: Laura F. Galloway)

- 3:30 Cyto-nuclear interactions contribute to outbreeding depression in the herbaceous plant *Campanula americana*
Laura F. Galloway, Julie R. Etterton; University of Virginia
- 3:45 Evidence for reinforcement of pollen-pistil incompatibility in the Neotropical spiral gingers
Kathleen Marie Kay; Michigan State University

► ORAL PRESENTATIONS: TUESDAY AFTERNOON

- 4:00 Experimental tests for minority cytotype disadvantage in snow buttercups (*Ranunculus adoneus*)
Eric Jon Baack; Center for Population Biology, University of California, Davis
- 4:15 The contributions of adaptive divergence and genetic distance to reproductive isolation between populations of an annual plant
Joe Hereford; Florida State University
- 4:30 Hybrid fitness distributions: evidence for adaptive landscape topography
Mitch Cruzan, Jennifer Michelle Rhode; Portland State University
- 4:45 In the course of speciation: ecogeographical divergence of *Oncocyclos* Irises
Yuval Sapir, Avi Shmida; The Hebrew University of Jerusalem

Session 16g 1:15-3pm, Tuesday—Laxson Auditorium
Population Genetics – Arthropods

(Moderator: Francesco Frati)

- 3:30 High levels of genetic differentiation between *Wolbachia*-infected and non infected populations of *Folsomia candida* (Arthropoda, Collembola)
Francesco Frati, I. Negri, P. P. Fanciulli, M. Pellecchia, R. Dallai; University of Siena
- 3:45 Lightning strikes twice: the discovery and localization of selective sweeps affecting non-African populations of *Drosophila melanogaster* and *Drosophila simulans*
John Eric Pool, Vanessa Bauer DuMont, Jacob L. Mueller, Charles F. Aquadro; Cornell University
- 4:00 Resource use and speciation in bark beetles
Scott Theodore Kelley, Collin McManus; San Diego State University
- 4:15 The evolution of genetic constraints: intra- vs. interspecific variation
Mattieu Begin; McGill University
- 4:30 Transmission analysis of rare B chromosome variant
Mohammed Bakkali, J. P. M. Camacho; University of British Columbia

Poster Presentations

Biogeography/Geographic Variation – Arthropods

1. Paleoclimatic variation, adaptation, and biogeography of inversion polymorphisms in natural populations of *Drosophila robusta*
William James Etges, Max Levitan; University of Arkansas
2. Hawaii's remarkable Lepidoptera: uncovering evolutionary patterns in the genus *Scotorythra* (Geometridae: Ennominae)
Mandy Louise Heddle, Rosemary Gillespie; University of California, Berkeley

Biogeography/Geographic Variation – Other

3. Gene Trees of bacterial mercury resistance gene sequences indicate unique local selection
Elizabeth A. Burgess, Travis Glenn, J. Vaun McArthur, Cathy King; University of Georgia–Savannah River Ecology Lab

Biogeography/Geographic Variation – Plants

4. Testing the out-of-India dispersal of Crypteroniac
Frank Rutschmann, Torsten Eriksson, Elena Conti; University of Zurich, Switzerland
5. Packing the kitchen sink: genetic variation in native and introduced populations of *Hypericum canariense*
Katrina Marie Dlugosch; University of California, Santa Cruz

Biogeography/Geographic Variation – Vertebrates

6. Phylogenetics, zoogeography, and the role of dispersal in the evolution of the *Rana catesbeiana* (Anura: Ranidae) species group
Stephen C. Lougheed, James D. Austin, Paul E. Moler, Peter T. Boag; Queen's University
7. The role of geography and sexual selection in explaining morphological divergence among populations of Mexican species of sailfin mollies.
Shala Jo Hankison; Clemson University
8. Genetic differentiation of the bioluminescent marine fish *Porichthys notatus* (Batrachoididae)
Elizabeth Torres, Imelda Nava; California State University, Los Angeles
9. Evidence for Post-Pleistocene range expansion in the Western fence lizard, *Sceloporus occidentalis*
James W. Archie, Sara A Louwsma; California State University, Long Beach
10. Life-history evolution in chinook salmon: exploring the interplay between natural selection and chance historical events
James Gareth Rhydderch, Jerald B. Johnson; University of Washington
11. Comparative phylogeography of California reptiles
Chris Ross Feldman, Greg S. Spicer; Utah State University
12. Red-backs in refugia: post-glacial expansion of the red-backed vole (*Clethrionomys gapperi*) in North America
Amy Marie Runck; Idaho State University
13. Socotra Island the forgotten fragment of Gondwana: evidence from complete mitochondrial genomic sequences of chameleons and amphisbaenian reptiles
J. Robert Macey, T. J. Papenfuss, J. V. Kuehl, M. H. Fourcade, J. L. Boore; DOE Joint Genome Institute

Character Evolution

14. Biochemical adaptation across a habitat transition
Carol Eunmi Lee, Nicholas James Maness; University of Wisconsin
15. The evolution of muscle aerobic capacity in high performance fish
Anne C. Dalziel, Stephen C. Lougheed, Chris D. Moyes; Queen's University
16. Rattle loss in pygmy rattlesnakes: a textbook example of regressive evolution?
Matthew Paul Rowe, Terry Farrell, Peter May; Appalachian State University

► POSTER PRESENTATIONS: 17-34

17. Novel application of scanning electron microscopy (SEM) for investigating postembryonic development of the lip region of *Acroleles complexus*
Dan J. Bumbarger, James G. Baldwin; University of California, Riverside
18. The evolution of color pattern morphology within the true chameleons
Emilia P. Martins, Erin Christine Kelso; Indiana University
19. Ecotypic differentiation among populations of *Mimulus guttatus* (Scrophulariaceae)
Jessica Ruvinsky, David D. Ackerly; Stanford University
20. Do microhabitats shape the songs of East African forest greenbul?
Carolyn Sarah McBride; University of California, Davis
21. The effect of the genetic code on DNA mutation
David A. McClellan, David Donald Ellison; Brigham Young University
22. Duplication as a loophole for Dollo's Law
Todd Hampton Oakley; University of California, Santa Barbara

Coevolution

23. Examining cospeciation between figs, pollinators, parasites, and parasitoids
George D. Weiblen, Summer Irene Silvieus; University of Minnesota
24. Intra- and interspecific variability in neurotoxin resistance: a study of coevolution between grasshopper mice (*Oryzomys* spp.) and bark scorpions (*Centruroides exilicauda*)
Matthew Paul Rowe, Ashlee Hedgecock Rowe; Appalachian State University

Conservation Biology

25. Loss of endemic, host-specific insects (Nesosydne, Delphacidae) from an island fauna (Hawaii)
Gerald Luke Hasty, Jeomhee Mun, George K. Roderick; University of California, Berkeley
26. Hawaiian Goose genetics: inbreeding
Donald K. Price, C. Cam Muir, Anne Veillet, Rachael Trimble; University of Hawaii at Hilo
27. Extensive allozyme monomorphism in a threatened species of freshwater mussel, *Margaritifera hembelli*: a result of family level biology
Jason Paul Curiale; Bodega Marine Lab, University of California
28. Conservation genetics of the California red-legged frog, *Rana aurora draytonii*
Matthew Kenji Fujita, H. Bradley Shaffer, Angela Picco; University of California, Davis

Development and Evolution

29. Genetic differentiation and introgressive hybridization of the endangered Owens tui chub populations
Yongjiu Chen, Steve Parmenter, Bernie May; University of California, Davis
30. One horn, two horn, red horn, blue horn: the evolution and development of horned beetles
Armin Philipp Moczek, L. Nagy, D. Wheeler, H.F. Nijhout; Center for Insect Science, University of Arizona
31. Battle of the *Vibrios*: spatial differentiation determines competency in the sepiolid squid/ *Vibrio* mutualism
Michele Kiyoko Nishiguchi, Sandra Saenz; New Mexico State University
32. Molecular population genetics of the developmental gene optomotor-blind
Daniela De Toni, Alan R. Templeton; Washington University
33. Evolution of an AP2-like gene in the grass family
Jill Christine Preston, Elizabeth A. Kellogg; University of Missouri-St. Louis
34. Different ways to make a hindbrain: functional divergence of duplicated krox20 genes across stickleback, pufferfish and zebrafish
Angel Amores, William Andrew Cresko, Y. Yan, J. Boone, D. Baltrus, A. Singer, J. Postlethwait; University of Oregon

35. What do developmental data contribute to the debate on the origin of insect wings? Expansion and reassessment of the comparative molecular data
Elizabeth Lacy Jockusch, Karen Ann Ober; University of Connecticut
36. Ultrastructure suggests regulatory role of fern SAM apical cell
Marina Andreevna Romanova, Olga V. Yakovleva, Nuria K. Koteeva; Saint-Petersburg State University
37. A new type of extraretinal photoreceptor in the brain of hawkmoths (Lepidoptera: Sphingidae)
Adriana D. Briscoe, Jochen Lampel, Lutz T. Wasserthal; University of California, Irvine
38. Complexity and integration in sexual displays: an example with carotenoid and melanin ornaments
Rebecca Lynn Young, Alex Badyaev; University of Arizona
- 38.5 Diversity in animal form: insights from studies of the development and evolution of beetle horns
Douglas J. Emlen; University of Montana

Development and Evolution – Theory

39. The origins of genetic and phenotypic modularity
Allan Gwynnne Force, William Andrew Cresko, Bryan F. Pickett, Chris Amemiya, Mike Lynch;
 Virginia Mason Research Center

Ecological Genetics – Animals

41. Mechanisms underlying different life-history strategies: comparing candidate senescence genes in closely-related *Daphnia*
Jeff Dudycha; Indiana University
42. Host use of *Acyrtosiphon kondoi* contrasts with the specialized host races of its congener, *A. pisum* (pea aphid)
Julie Nicole Byrd, Renee Godinez, Sara Via; University of Maryland, College Park
43. Structuring of boll weevil populations based on RAPD markers
Kyung S Kim, Thomas W. Sappington; US Department of Agriculture–Agriculture Research Center
44. Can mated females take the heat? Mating status affects thermotolerance in *Drosophila melanogaster*
George W. Gilchrist, Katie N. Provost; The College of William & Mary
45. Fine-scale genetic variation and heterozygote deficiency in *Collisella subrugosa* (Acmaeidae:Gastropoda)
Juliana José, Flavia Fuchs de Jesus, Vera N. Solferini; Universidade Estadual de Campinas
46. Local adaptation in a parasitoid wasp
Michael F. Antolin, Tracey Bjorksten, Ty Vaughn; Colorado State University
47. Host use of *Acyrtosiphon kondoi* contrasts with the specialized host races of its congener, *A. pisum* (pea aphid)
Julie Nicole Byrd, Renee Godinez, Sara Via; University of Maryland, College Park

Ecological Genetics – Plants

48. Quantitative genetics of plant defense: variation in glucosinolate profiles for populations of North American *Arabis*
Alice M. Shumate, Tom Mitchell-Olds; Max Planck Institute of Chemical Ecology
49. The causes of sexually dimorphic branching morphology in *Croton texensis*
Tarek Elnaccash, Diana Pilson; University of Nebraska, Lincoln
50. The quantitative genetics of plant physiological traits in *Lobelia* spp.
Hafiz Maherli, Christina Marie Caruso; University of Guelph
- 50.5 Evolution of genome size in pines (*Pinus*) and its life history correlates: supertree analyses
Eva Grotkopp Kuo; University of California, Davis

Evolution of Behavior

51. Web structure, orientation, and predatory behavior of *Argiope* orb weavers
Michael John Justice, Regina Vesci; Nova Southeastern University

► POSTER PRESENTATIONS: 52-68

52. Variable reproductive investment along an elevational gradient in two passerine species
Renee A. Duckworth; Duke University
53. Weighting the importance of inbreeding costs in the evolution of dispersal
Nicolas Perrin, Frédéric F. Guillaume; University of Lausanne
54. Host defenses to avian brood parasitism: evidence from an African finch (*Estrilda astrild*)
Justin Garth Schuetz; Cornell University
55. Call imitation: a signal for paternal quality in *Melopsittacus undulatus*
Marin Louise Moravec; University of California, Irvine
56. Finding the phenotype: repeatability and relationships between solitary and social behavior in *Lasioglossum hemichalceum*
Allen J. Moore, Patricia Johnston Moore, Penelope F. Kukuk; University of Manchester
57. The evolutionary genetics of foraging behavior
Mark Jeffrey Fitzpatrick, Trudy F.C. Mackay, Marla B. Sokolowski; University of Toronto

Evolution of Host-parasite Interactions

58. Large-scale identification in house finches (*Carpodacus mexicanus*) of gene expression changes induced by a Mycoplasma parasite
Zhenshan Wang; University of Washington
59. Phylogenetic analysis of socially parasitic paper wasps (Hymenoptera: Vespidae)
Shonna R. Storz; Florida State University
60. Evolution of virulence in a generalist pathogen
Gregory S. Gilbert, Ingrid M. Parker; University of California, Santa Cruz

Evolution of Sex

61. A test of advantage of sex in bottlenecked populations of an RNA virus
Arthur Fu Poon, Lin Chao; University of California, San Diego
62. X chromosomal strata, similar to human strata, in genus *Mus*
Sara Amelia Sandstedt; University of Michigan

Evolution of Species Interactions

63. The effects of ants on the carnivorous butterfly caterpillar *Feniseca tarquinius* and the role of chemical camouflage in the *Feniseca*-ant interaction
Elsa Kristen Youngsteadt; University of Wisconsin, Milwaukee

Experimental Evolution – Microorganisms

64. The buffering effects of T7 Phage resistance in *E. coli*
Duy M. Dinh, Michael Travisano; University of Houston

Evolutionary Genetics

65. Evolution of novel regulatory functions
Erich Grotewold, J. Marcela Hernandez; Ohio State University
66. BAC libraries for five reptilia: genomic resources for comparative biology of amniotes
Jeff Luis Froula, Scott Edwards, Chris Amemiya; DOE Joint Genome Institute–PSF
67. Genetic variation among female *Drosophila* for resistance to male induced harm?
Jodell Elise Linder; University of California, Santa Barbara
68. QTL for susceptibility to tapeworm infection in the red flour beetle
Daibin Zhong, Aditi Pai, Guiyun Yan; State University New York at Buffalo

69. Selection driven differentiation between the neo-sex chromosomes of *Drosophila americana*
Bryant F. McAllister; University of Iowa
70. The cryptic sex-ratio distortion system recovered from interspecific hybrids between *Drosophila simulans* and *D. sechellia*: a suppressor, not much yang, mapped on the third chromosome
Yun Tao, J. P. Masly, H. A. Orr, A. G. Clark, D. L. Hartl; Harvard University
71. Are mtDNA clade boundaries barriers to nuclear gene flow: more evidence from the Western fence lizard, *Sceloporus occidentalis*
James W. Archie, Alicia Fox, Travis Vail; California State University, Long Beach
72. The geographic genetic structure of both introduced and native populations of the wandering salamander, *Aneides vagrans*
Todd Richard Jackman, Juliann Marie Beaulieu; Villanova University
73. Codon usage in a gene with unusual repeats within the coding region
Sofia M. Hussain, Brian T. Livingston; University of South Florida
74. A duplication of the long-wavelength opsin gene in the social bumble bee, *Bombus terrestris*
Johannes Spaethe, Adriana D. Briscoe; University of California, Irvine
75. Pattern of polymorphism at two MHC class II loci in bank voles (*Clethrionomys glareolus*)
Alessandro Grapputo, Esa Koskela, Tapio Mappes; University of Jyväskylä
76. Polymorphism in the MHC class IIB of red-billed gulls
Nicola Leanne Chong, Alessandro Grapputo, James Mills, Allan J. Baker; University of Jyväskylä
- 76.5 The role of Ddc and ple in the regulation of female lifespan and age-specific fecundity in *Drosophila melanogaster*
Gang Wu, Michael Harrington, Jeff Leips; University of Maryland, Baltimore County

Evolutionary Genetics – Microorganisms

77. The implications of global subtype diversity of HIV-1 for vaccine development
Ryan Brent Peterson, Keith A. Crandall; Brigham Young University
78. Molecular evolution of *Camponotus* endosymbionts: reciprocal rut or ant infinitum?
Patrick H. Degnan, Jennifer Jo Wernegreen, Adam Lazarus; Marine Biological Laboratory–Josephine Bay Paul Center
79. Is local adaptation present in the pan-global pathogenic mold *Aspergillus fumigatus*?
Carla Lynn Rydholm, Thomas G. Mitchell, François Lutzoni; Duke University
80. Adaptive diversification of experimental '*Escherichia coli*' populations
Maren Friesen, Michael Doebeli, Gerda Sacher, Michael Travisano; University of British Columbia
81. Is production of multiple gene products conserved across divergent Microviridae?
Stanley B. Caudle, Darin R. Rokyta, Holly A. Wichman; University of Idaho

Genome Evolution

82. Bacterial phylogeny and genome evolution
M. Pilar Francino, Jeffrey Lynn Boore; DOE Joint Genome Institute
83. Genome size evolution among *Ipini* bark beetles (Scolytinae)
Anthony Ignatius Cognato, J. Spencer Johnston; Texas A&M University
84. Evolution of opisthobranch gastropods based on complete mitochondrial genome comparisons
Monica Medina, Jeffrey Lynn Boore, H. Matthew Fourcade, Tori Louette Takaoka, Yvonne Valles; DOE Joint Genome Institute
85. The effects of biased gene conversion on genome evolution
John Anthony Birdsell; University of Arizona
86. Genomic database approach to assessing horizontal gene transfer
Francisca Cunha Almeida, Rob DeSalle; New York University, American Museum of Natural History

► POSTER PRESENTATIONS: 87-104

87. North American pikas contain multiple LINE-1 lineages
Issac K. Erickson, LuAnn Scott, Holly A. Wichman, Michael A. Cantrell; University of Idaho
88. Evolution of complete mitochondrial genomes in salamanders of the *Eurycea multiplicata* complex
J. Robert Macey, Jeffrey Lynn Boore, Ronald Michael Bonett, Paul T. Chippindale; DOE Joint Genome Institute
89. Reversion of trans-splicing in a plant mitochondrial gene
Aaron Olson Richardson; Indiana University
90. Gene expression level influences amino acid usage, but not codon usage, in the tsetse fly endosymbiont *Wigglesworthia*
Joshua T. Herbeck, Jennifer Jo Wernegreen; Marine Biological Laboratory

Genomics

91. Amplifying mitochondrial genomes using RCA
Jeff Luis Froula, Monica Medina, Marco Passamonti, J. Robert Macey, Jennifer V. Kuehl, David K. Engle, Jeffrey Lynn Boore, H. Matthew Fourcade; DOE Joint Genome Institute-PSF
92. Soybean rust: genome comparison of a fungal plant pathogen
Martha Lucia Posada-Buitrago; DOE Joint Genome Institute
93. PyPop: population genetics software for large-scale multi-locus genotype data
Alex Lancaster; University of California, Berkeley
94. Comparison of the whole genome draft sequences of two plant blights
Douda Bensasson, Jarrod Chapman, Susan Lucas, Paul Richardson, Daniel Rokhsar, Brett Tyler, Jeffrey Lynn Boore; DOE Joint Genome Institute
95. Are the results from statistical analyses of microarrays reasonable?
Cheryl H. Vanier; University of Arizona
96. Comparative chloroplast genomics of seed plants: integrating computational methods, phylogeny, and molecular evolution
Tandy Jo Warnow, Jeffrey Lynn Boore, H. Matthew Fourcade, Robert K. Jansen, Romeo Haberle, Timothy Wayne Chumley, Linda Raubeson, Stacia Wyman, Claude dePamphilis, Bernard Moret, David Bader, Webb Miller; University of Texas at Austin
97. Molecular adaptation of tumor necrosis factor protein
Raymond William Grams II, David A McClellan; Brigham Young University

Hybridization – Animals

98. The genetic architecture of counterselection in the house mouse hybrid zone
Pierre Boursot, Nathalie Raufaste, Annie Orth, Khalid Belkhir, Francois Bonhomme, Barbara Dod; Université Montpellier II
99. Genetic examination of a naturally occurring interspecific hybrid between shortfin and sailfin mollies
Michele Marie Kittell; Clemson University
100. Differential introgression in the European house mouse hybrid zone
Katherine C. Teeter, Priscilla K. Tucker; University of Michigan
101. Testing ancient hybridization in *Tamias* using nuclear data
Jack Sullivan, Barley B. Hyde, Cantrell Mac; University of Idaho

Hybridization – Arthropods

102. Long term effects of hybridization between two genetically distinct copepod populations
Heather Victoria Feaman, Suzanne Edmands; University of Southern California
103. Is meiotic drive blocking introgression between sympatric, hybridizing *Colias* butterflies?
Baiqing Wang, Adam Porter; University of Massachusetts Amherst

Hybridization – Plants

104. Origin of the *Rubus ursinus* (Rosaceae) polyploid complex
Lawrence A. Alice, Nathan G. Woolen, Brittany L. Sutherland; Western Kentucky University

105. Genetic mapping reveals both positive and negative interactions between hybridizing Louisiana *Iris* genomes
Amy Christine Bouck, Ed Kentner, Ryan Peeler, Michael L. Arnold, Susan R. Wessler; University of Georgia
106. Differential introgression of sex chromosomes in *Silene*: Haldane's rule in plants?
Dmitry Alexandrovich Filatov, Joseph Edward Ironside; University of Birmingham

Inbreeding – Plants

107. Does Inbreeding depression maintain chasmogamy in a perennial violet?
Alice A. Winn, Christopher G. Oakley; Florida State University

Life History Evolution – Arthropods

108. The effects of condition on the ontogeny of sexual dimorphism in the ambush bug *Phymata americana*
Helen Rodd, David Punzalan, Rowe Locke; University of Toronto

Life History Evolution – Fish

109. Plasticity of resource allocation in response to food availability in livebearing fish
David Norman Reznick, Dionna Lynn Elder; University of California, Riverside

Life History Evolution – Plants

110. Fungal fitness and optimal life-history strategies
Michael Aaron Gilchrist, D. L. Sulsky, A. Pringle; University of New Mexico

Life History Evolution – Vertebrates

111. The response of postnatal growth rate to environmental influences within *Rodentia*
Elissa Miller Derrickson; Loyola College
112. The influence of climate on changes in life history strategies, body size, and abundance in *Ambystoma tigrinum* from a late holocene fossil record
Elizabeth Anne Hadly, Judsen Bruzugul, Webb Long; Stanford University
113. Large rodents: life histories and evolutionary trade-offs
Jerry Svendsen; Ohio University

Macroevolution – Animals

114. The phylogenetic relationships and biogeography of porpoises (Cetacea: Phocoenidae)
Liliana Fajardo, Annalisa Berta, Robert L. Brownell Jr.; San Diego State University

Mating/breeding Systems – Animals

115. Promiscuity and cannibalism in a polymorphic fish from an ancient Sulawesi lake
Suzanne M. Gray, Jeffrey S. McKinnon, Larry M. Dill; Simon Fraser University
116. Relatedness among males on a Northern Fur Seal rookery: aggression, territoriality, and the potential for kin selection
Stacey Lyn Lance, S. J. Insley, D. Boness, R. C. Fleischer; Colby College
117. Sperm limited fecundity in a nematode: how many sperm are enough?
Asher D. Cutter; University of Arizona
118. Microsatellite paternity analysis in the fathead minnow (*Pimephales promelas*)
Michael Lee Bessert, Guillermo Orti; University of Nebraska
119. Mate attraction declines with genetic divergence in Trinidadian guppies (*Poecilia reticulata*)
Helen Rodd, Jennifer Tran, Theresa Lai; University of Toronto
120. Reproductive success and effective population size in woodrats (*Neotoma macrotis*).
Marjorie Denise Matocq; Idaho State University

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Mating/breeding Systems – Plants

121. Mating Patterns in Louisiana *Iris* hybrids
Robert Scott Cornman, Michael L. Arnold; University of Georgia
122. Correlated evolution of breeding systems and habitat in Hawaiian *Schiedea*
Elizabeth Anne Zimmer, Molly Nepokroeff, Warren L. Wagner, Stephen G. Weller, Ann K. Sakai; Smithsonian Institution
123. Large departure from random mating in a small isolated population of Scots pine (*Pinus sylvestris* L.)
Juan José Robledo, R. Alia, L. Gil; CIFOR-INIA, Madrid, Spain
124. Geographic variation in floral form in *Plantago virginica*
Elizabeth Wallace Boyd; Brown University

Molecular Evolution – Theory

125. Evolution of Cytochrome b in Elapidae
Dean Herschel Leavitt, Jack W. Sites, Jr.; Brigham Young University
126. Mitochondrial to nuclear gene transfer within the Arvicolinae (Rodentia)
Deborah Anne Triant, J. Andrew DeWoody; Purdue University
127. Natural selection as an emergent process: a thermodynamic perspective
Guy A. Hoelzer; University of Nevada, Reno
128. CDM: characterizing dynamic selection on nucleotide evolution using the codon-degeneracy model
David A. McClellan, Ryan Goaslind Christensen; Brigham Young University

Molecular Systematics – Arthropods

129. Evolution of parasitism in dermanyssoid mites
Adrian Mark Paterson, Robert Hamish Cruickshank; Lincoln University, New Zealand
130. Phylogenetic relationships of ticks inferred from multiple nuclear protein-encoding genes
Quentin Q. Fang, Guang Xu, James E. Keirans; Georgia Southern University
131. Molecular evolution of the wingless gene in stalk-eyed flies
Jeffrey Lynn Boore, Richard H. Baker; DOE Joint Genome Institute, University of California, Berkeley
132. Phylogenetics of the genus *Ceratitis* (Diptera: Tephritidae)
Norman Benjamin Barr, Bruce McPheron; Pennsylvania State University
133. Monophyly of Geodephaga beetles as indicated by three nuclear genes
Wendy Moore, David R. Maddison, Michael D. Baker, Tana M. Ellis, Karen A. Ober; University of Arizona
134. A test for the congruence of phylogenies generated using morphological traits and mtDNA sequence data for the wolf spider genus *Geolycosa*
Samuel David Marshall, Gail Stratton, Pat Miller, Randy Hoeh, Wu Ting; Hiram College
135. A toxic tale: evolution of the vertebrate specific toxin gene, alpha-latrotoxin, in black widow spiders
Jessica Ellen Garb, Rosemary Gillespie; University of California, Berkeley
136. Evolution of spinneret morphology in RTA-clade spiders
Joseph Clement Spagna, Rosemary G. Gillespie; University of California, Berkeley

Molecular Systematics – Birds

137. Genetic variation in sharp-tailed grouse (*Tympanuchus phasianellus*): a look at the Columbian and plains subspecies
Allen Wesley Spaulding, Karen Mock, Ken Warheit, Mike Schroeder; Utah State University

Molecular Systematics – General

138. SINE systematics: progress and prospects in the wake of the Human Genome Project
Andrew M. Sheldock; University of Washington

Molecular Systematics – Metazoans

139. Evolution of scleractinian corals by analysis of complete mitochondrial genomes
David K. Engle, Christian Marroquin, Tori Takaoka, Jennifer Kuehl, Jeffrey Lynn Boore, Monica Medina;
 DOE Joint Genome Institute, University of California, Berkeley
140. The mitochondrial genome of the Chaetognath *Paraspadella gotoi*
Jeffrey Lynn Boore, H. Matthew Fourcade, Kevin G. Helfenbein, Rohit G. Vanjani; DOE Joint Genome Institute, University of California, Berkeley
141. New mitochondrial genomes of unrepresented metazoan phyla
Monica Medina, David K. Engle, Jeffrey Lynn Boore, Tori Louette Takaoka, Christian Marroquin, Jennifer Kuehl;
 DOE Joint Genome Institute, University of California, Berkeley
142. The first molecular phylogeny of Buthidae (Scorpiones)
Victor Fet, B. Gantenbein, A.V. Gromov, G. Lowe; Marshall University
143. Are all annelids polychaetes?
Jeffrey Lynn Boore, Yvonne Valles; DOE Joint Genome Institute, University of California, Berkeley

Molecular Systematics – Plants

144. Evolution of a phytochrome gene pair originating within the Brassicaceae
Sarah Mathews; University of Missouri–Columbia
145. Phylogenetic utility of the chloroplast DNA psbA-trnH spacer in *Rubus* (Rosaceae)
Lawrence A. Alice, Nathan G Woolen; Western Kentucky University
146. Phylogenetic utility of four non-coding chloroplast DNA regions in mints (*Mentha*; Lamiaceae)
Lawrence A. Alice, Kate L. Hertweck, Natalina E. Elliott, Amber R. Hogart, Elizabeth Suzanne Sproles, Jiranana Bunsawat;
 Western Kentucky University
147. Insights into the evolution of the Acre Clade (Crassulaceae) inferred from nuclear ribosomal ITS sequence data
Mark Eugene Mort, Annie Rose Palmer; University of Kansas
148. Phylogenetics of green algae (Chlorophyta) from desert microbiotic crusts
Louise Ann Lewis, Paul O. Lewis; University of Connecticut
149. Character evolution within *Saltugilia* (Polemoniaceae) inferred from multiple gene phylogenies
Leigh A. Johnson, Terri Lynn Weese; Brigham Young University
150. Inspection of plastid genomes for the arrangements of the accD gene in monocot families
Virginia (Gini) Marie Oberholzer Vandergon, Gabriele Marie Meyer, Thomas L. Vandergon;
 California State University, Northridge
151. Evolution of panicoid grasses using introns of a plant homeobox gene
Andrew Nicholas Doust, Elizabeth A. Kellogg, Anya M. Penly; University of Missouri, St. Louis
152. The molecular phylogeny and biogeography of *Linum* (Linaceae)
Joshua Robert McDill, Beryl B. Simpson; University of Texas at Austin
153. Higher-order phylogenetic relationships in the monocot order Liliales, as inferred by a large plastid data set
Jessica Marie Zgurski, Hardeep Singh Rai, Heath O'Brien, Marc McPherson, Sean Graham; University of Alberta
154. The phylogeny of Brassicaceae based on the noncoding regions of chloroplast DNA
Yau-Wen Yang, Shuh-Chun Chen, Ya-Ling Chung, Joumiao Liou; Academia Sinica, Taiwan
155. Phylogenetics of Crassulaceae inferred from chloroplast and nuclear sequence data
Mark Eugene Mort; University of Kansas

Molecular Systematics – Vertebrates

156. Phylogeny, population genetics, and evolution of the *Plethodon elongatus* species group (Caudata: Plethodontidae)
Meredith Mahoney; Museum of Vertebrate Zoology, University of California, Berkeley

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157. Phylogenetic relationships among Amphisbaenian reptiles based on complete mitochondrial genomic sequences
J. Robert Macey, T. J. Papenfuss, J. V. Kuehl, M. H. Fourcade, J. L. Boore; DOE Joint Genome Institute
158. Molecular evidence that *Lampropeltis triangulum temporalis* is a hybrid
George R Harper; University of North Carolina at Chapel Hill

Morphometric Evolution

159. Application of 3D thin-plate splines and other morphometric methods to the study of ontogenetic trajectories and intraspecific variation in crocodylians
Richard E. Strauss, Momchil Nikolaev Atanassov, Eric Dyrson; Texas Tech University
- 159.5 Evolution of G-coupled proteins
Rashida Henry, Nicole Green, Carole Griffiths; Long Island University

Phenotypic Plasticity and G*E – Plants

160. Adaptive plasticity for tolerance of low-quality microsites in *Viola septemloba* (Violaceae)
Ken Susumu Moriuchi; Florida State University
161. Plasticity of root allocation to density in plants: functional approach to understanding the cost of density response
Maria Isabel Sanchez, S.A. Dudley; University of Georgia
162. The genetic mechanism of flowering time plasticity in response to nutrient availability in *Arabidopsis thaliana*
Yuko Toyonaga; Brown University
163. Plasticity to neighbor shading modulates local adaptation in *Impatiens capensis*
Eric Jeremiah von Wettberg, Heidi Huber, Johanna Schmitt; Brown University

Phylogenetic Methods/Theory

164. Estimating absolute rates of synonymous and nonsynonymous nucleotide substitution in order to characterize natural selection and date species divergences
Tae-Kun N/A SEO, Hirohisa Kishino, Jeffrey L. Thorne; Bioinformatics Research Center, North Carolina State University
165. PHASE : a PHylogenetics And Sequence Evolution package
Cendrine Hudelot, Vivek Gowri-Shankar, Magnus Rattray, Paul Higgs; University of Manchester
166. Accelerated Likelihood Surface Exploration: the 'Likelihood Ratchet'
Rutger Aldo Vos; Simon Fraser University
167. Model sensitivity of likelihood based phylogenetic methods illustrated by empirical examples
Frederic Delsuc, Edward David Pennsylvaniay, Peter J. Lochart, Emmanuel J. P. Douzery; Massey University
168. To concatenate or not to concatenate?
Michael S. Rosenberg, Sudhindra R. Gadagkar, Sudhir Kumar; Arizona State University
169. An empirical comparison of new and traditional heuristic approaches for the large phylogeny estimation problem
Marcos Perez-Losada, Carlos G. Jara, Georgina Bond-Buckup, Keith A. Crandall; Brigham Young University
170. Grid-enabling phylogenetic software: running serial applications in parallel
Stefan Zoller; North Carolina Supercomputing Center
171. A computer program for Bayesian analysis of character histories
Jonathan Paul Bollback; University of California, San Diego
172. When should we trust high Bayesian posterior probabilities on phylogenetic trees?
Francois M. Lutzoni, Stefan Zoller; Duke University
173. How well do MCMC chains summarize complex posterior distribution landscapes?
David L. Swofford, Dan Lee Warren; Florida State University
174. Bayesian models of episodic evolution support a late Precambrian explosive diversification of the Metazoa
Stephane Aris-Brosou, Ziheng Yang; North Carolina State University

Phylogeny Based Comparative Method

175. Evolution of arachnid spermathecal structures
Anne Danielson-Francois; University of Kansas
176. Character change in Carnivora: specialization, directional evolution, and stasis.
Jill Holliday; Florida State University

Phylogeography – Arthropods

177. Phylogeography of spruce beetles (*Dendroctonus rufipennis*) in North America: distinctive mtDNA lineages associated with different host trees and possible evidence of a zone of overlap in British Columbia
Luana Santoro Maroja, Richard G. Harrison, Steven Bogdanowicz, Kenneth Rafa, Kimberly Wallin; Cornell University
178. Small-scale phylogeography of the endangered fairy shrimp *Branchinecta sandiegensis* in Southern California
Andrew James Bohonak, Milmer Martinez-Vergara, Kirsten C. Davis, Sean P. McCrary, Marie A. Simovich; University of San Diego, San Diego State University
179. Using nested clade analysis to understand the population structure of a New Zealand cicada, *Maoricicada campbelli*
Christine (Chris) Mae Simon, Kathy B. R. Hill, Geoffrey K. Chambers; University of Connecticut
180. Comparative phylogeography of intertidal amphipods on the east coast of North America
Christine M. Henzler, Clifford W. Cunningham; Duke University
181. Phylogeography of a common butterfly in southern Central America as inferred from nuclear and mitochondrial loci
Sean Dennis Schoville, George K. Roderick; University of California, Berkeley
182. Geographic patterns of genetic diversity in *Heliconius* races
Michael J. Blum, Eldredge Bermingham; Duke University, US Environmental Protection Agency

Phylogeography – Invasive Species

183. Dominant marker analysis package applied to zebra mussel invasions
Carol Eunmi Lee, Gregory William Gelembiuk, Michael Gerner; University of Wisconsin

Phylogeography – Mammals

184. Genetic structure and historical demography of the dusky dolphin (*Lagenorhynchus obscurus*)
April Dawn Harlin, Rodney L. Honeycutt, Tim M. Markowitz, Bernd Wursig; Texas A&M University
185. Phylogeographic analysis of spiny pocket mice (genus *Heteromys*)
Malinda Wallentine Gonzalez, Duke S. Rogers; Brigham Young University
186. Alternative Andean speciation hypotheses and a comparison of nuclear and mitochondrial genes in resolving the phylogeography of *Phyllotis*, a South American rodent
James Christopher Albright, Scott J. Stepan, Dorothee Huchon, Oswaldo Ramirez; Florida State University
187. Phylogeographic and cranial variation in *Sorex vagrans*
Kenneth M. Berger, Jack Sullivan, J. R. Demboski, D. R. Johnson; University of Idaho
188. Genetic structure, diversity, and historical demography of the dusky dolphin (*Lagenorhynchus obscurus*)
April Dawn Harlin, Rodney L. Honeycutt, Tim Markowitz, Bernd Wursig; Texas A&M University
189. Phylogeography of spiny pocket mice (genus *Heteromys*)
David B. Gonzalez, Duke S. Rogers; Brigham Young University
190. Molecular phylogeography of California voles (*Microtus californicus*): secondary contact of two divergent clades
Jennifer L Neuwald, Chris John Conroy; Washington University in St. Louis

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Phylogeography – Molluscs

191. Impacts of restricted dispersal on phylogeography and gene flow in Hawaiian populations of the Indo-Pacific marine gastropod species *Peristernia chlorostoma* (Neogastropoda: Fasciolariidae).
Jeff A. Eble, Marta deMantenon; University of Hawaii at Hilo
192. Phylogeography of *Norrisia norrisi* (Archaeogastropoda: Trochidae) in the Southern California Bight
Michelle Lee Stabio; California State University, Los Angeles

Phylogeography – Plants

194. Postglacial recolonization patterns of *Tsuga heterophylla*
Linda A. Raubeson, Rhiannon Peery; Central Washington University
195. Phylogeography of a Mesoamerican fruit tree (*Spondias purpurea* L., Anacardiaceae), based on chloroplast sequence data
Allison Jean Miller, Barbara Schaal; Washington University
196. The influence of landscape structure and local adaptation on the population genetic structure of stone plants
Allan George Ellis; University of California, Irvine

Plant Reproductive Biology

197. The effect of leaf damage on the reproductive traits in the common morning glory, *Ipomoea purpurea*
Shu-Mei Chang; University of Georgia
198. Gender determination and gender expression in the angiosperm *Urtica dioica* (Urticaceae)
Robynn Kelly Shannon; University of Connecticut

Population Genetics – Animals

199. Fluctuating asymmetry in response to increased somatic mutation and physical stress on *Drosophila melanogaster*
Ronny C. Woodruff, James N. Thompson, Jr.; Bowling Green State University
200. Effective population size of gulf red snapper (*Lutjanus campechanus*) in the Northern Gulf of Mexico
Eric Saillant, Christin L. Pruitt, John R. Gold; Texas A&M University
201. Rapid evolution of vertebrate Siglecs suggests adaptive changes in sialic acid biology
Tasha Kay Altheide, J. Sonnenburg, T. Angata, A. Varki; University of California, San Diego
202. Diversifying selection on albumin polymorphism in deer mice
Jay F. Storz; University of Arizona
203. Testing for genetic structure in the highly migratory striped marlin (*Tetrapturus audax*)
Catherine Marie Purcell; University of Southern California
204. Population genetic structure in Rio Grande cutthroat trout
Victoria Louise Pritchard, David E. Cowley; New Mexico State University
205. Population genetic structure of coho salmon in California
Libby A. Gilbert-Horvath, Carlos Garza; NOAA Fisheries
206. Population genetics of California abalone
Kristen Marie Gruenthal, Ronald S. Burton; University of California, San Diego
207. L1sw retrotransposon variation in the Atlantic coastal killifish, *Fundulus heteroclitus*
David D. Duvernall, Stephanie M. Adams; Southern Illinois University Edwardsville
208. Nucleotide variation at the Duchenne muscular dystrophy locus (Dmd) in a natural population of house mice, *Mus domesticus*
Michael W. Nachman, Tovah Salcedo; University of Arizona

Population Genetics – Arthropods

209. Genetic structure of the Colorado potato beetle: analyzing cytonuclear disequilibria across different spatial scales
Soroush Rais-Bahrami, David J. Hawthorne; University of Maryland

210. Population genetics of the African armyworm (*Spodoptera exempta*): a swarming insect of the tropics
Kamal M. Ibrahim, Yosuf Yassin; Southern Illinois University
211. Morphological discontinuity between sister species of water mites: strong natural selection or recent speciation?
Carrie L. Charlton, Andrew James Bohonak, Bruce P. Smith; San Diego State University
212. Characterizing the colonization of California by the walnut husk fly, *Rhagoletis completa*
Yolanda H. Chen, Sue Opp, Stewart Berlocher, George Roderick; University of California, Berkeley

Population Genetics – Plants

213. Relatedness and dispersal of the vagrant lichen, *Xanthoparmelia chlorochroa*
Heather Bird Jackson; Brigham Young University
214. Development and cross-species amplification of microsatellite markers in East African acacias
Andrew Schnabel, Travis Glenn, Mandy Schable, Chris Hagen; Indiana University South Bend
215. Evolution of the chalcone synthase promoter region in three species of *Arabidopsis*
Juliette Eloise de Meaux, Thomas Mitchell-Olds; Max Planck Institute for Chemical Ecology
216. Temporal autocorrelation analysis of pollen variation in *Albizia*
Peter E. Smouse, Lisa M. Bono, Andrew J. Irwin, James L. Hamrick, Mary Jo W. Godt; Rutgers University
217. A new approach to the study of contemporary gene flow through seeds
Delphine Pierrette Grivet, Kurt F. Merg, Victoria L Sork; University of California, Los Angeles

Population Genetics – Theory

218. The coalescent under selection
Russell Bruce Campbell; University of Northern Iowa
219. Bottlesim: a simulation algorithm of the genetic consequences of bottlenecks for long-lived species with overlapping generations
Chih-Horng Kuo, Fredric J. Janzen; Iowa State University
- 219.5 The diffusive spread of alleles in heterogenous populations
Gerrick Skalski; North Carolina State University

Quantitative Genetics – Plants

220. Mutation accumulation measured under stress in wild radish (*Raphanus raphanistrum*)
Angela Jennifer Roles; Michigan State University
221. Mutation accumulation measured under stress in wild radish (*Raphanus raphanistrum*)
Jeffrey K. Conner; Kellogg Biological Station
222. The evolution of herbicide tolerance in the common morning glory, *Ipomoea purpurea*
Regina S. Baucom, Rodney Mauricio; University of Georgia
223. Genetic variation and inbreeding depression in pollen size of *Mimulus guttatus*
Bethany Rebecca Harris, Kim Milne, John K. Kelly; University of Kansas

Reproductive Isolation – Mechanisms

224. Avian hybrid zone persistence and species-specific vocalizations: is the individual greater than the sum of its traits?
Jennifer Marie Gee; Princeton University
225. Isolation and characterization of acrosomal proteins from the polychaete *Eudistylia*
Michael John Boyle; Humboldt State University
226. Genetic influence on courtship behavior in *Poecilia*
Martin Earl Brummell; Simon Fraser University
227. The importance of geographic isolation in reproductive isolation between diploid and polyploid *Chamerion angustifolium*
Holly Ann Sabara, Brian C. Husband; University of Guelph

► POSTER PRESENTATIONS: 228-244

Selection Experiments

- 228. Steps toward an in vitro chemical system capable of Darwinian evolution—generating catalytic nucleic acid with in vitro selection
Matthew Carrigan; Foundation for Applied Molecular Evolution
- 229. Critters! For education: an inquiry-based laboratory simulation for teaching evolutionary biology
Luke Gerald Latham, Erik P. Scully; Loyola College in Maryland

Sexual selection – Arthropods

- 230. Reversible switches in sex choice
Hans Van Gossom, Robby Stoks, Luc De Bruyn; University of Antwerp
- 231. An adaptation for sperm transport in *Drosophila*
José Martín Mojica, David L. Bruck, Sharon File-Emperador; University of Puerto Rico, Río Piedras Campus

Sexual Selection – Other

- 232. Ornamentation in tufted puffins (*Fratercula cirrhata*): mate choice, body condition and chick growth
Gwynn S. Blackburn, J. Mark Hipfner, Ronald C. Ydenberg; Simon Fraser University
- 233. Does sexual selection cause extinction?
Christopher James Clark; University of California, Berkeley
- 234. Ecological gradient of sexual selection: elevation and song complexity in passerine birds
Emilie Catherine Snell-Rood, Alex Badyaev; University of Arizona
- 234.5 Reversible switches in sex choice
Hans Van Gossom, Robby Stoks, Luc De Bruyn; University of Antwerp

Social Evolution

- 235. Ethosource: facilitating access to behavioral data
Emilia P. Martins, Susan C. Alberts, Jeanne Altmann, Jack Bradbury, Anne B. Clark, James C. Ha, Hasan M. Jamil, Susan W. Margulis; Indiana University

Speciation – Animals

- 236. Ecological, morphological and genetic discontinuities in the *Lycaeides* species complex: how many blues?
Chris C. Nice, James Fordyce; Southwest Texas State University
- 237. Evolution of host-plant use and wing patterns in endemic Hawaiian tephritids
Jonathan M. Brown, Anne O'Brien, Aleia McCord; Grinnell College
- 238. Laboratory stocks of flies as models for early stages of speciation
Christine R. Boake, Denisha Michael; University of Tennessee
- 239. The evolution of sperm precedence
Leanna Marie Birge; New Mexico State University
- 241. Generating biodiversity: the evolution of the genus *Scotorythra* (Lepidoptera: Geometridae) in Hawaii
Mandy Louise Heddle, Rosemary Gillispie; University of California, Berkeley

Speciation – General

- 242. Mutation and premating isolation
Ronny C. Woodruff, James N. Thompson, Jr.; Bowling Green State University
- 243. Speciation as a positive feedback loop between post- and prezygotic barriers to gene flow
Maria R. Servedio, Glenn-Peter Saetre; University of North Carolina at Chapel Hill
- 244. A theoretical prediction of speciation potential
Jacob Cohen, Diane Sau Mun Yu; Science and Technology Corporation

Speciation – Plants

245. Rapid radiation in the columbines: evidence from multiple nuclear loci
Justen Bryant Whittall, Scott A. Hedges; University of California, Santa Barbara
246. Testing species boundaries and putative hybrids within Galápagos *Bursera* (Burseraceae)
Andrea Weeks, Alan Tye, Beryl B. Simpson; University of Texas at Austin

SSE/SSB Undergraduate Diversity Program Posters

Please join these students for a conversation about their work at a special poster reception
Sunday, June 22, at 5:00—Bell Memorial Union (BMU) Auditorium

How well do MCMC runs summarize complex posterior probability distribution landscapes?
Dan Warren; Florida State University

Current evidence and ideas on the evolutionary origin of bacteriogenic light organs in squids
Josue Lopez; New Mexico State University

Tracing the origins of *Mytilus trossulus* in the Baltic Sea
Kumar Sukhdeo; Duke University

A naturalized tropical orchid in Puerto Rico behaves as a native
Pablo Hernandez; University of Puerto Rico

Evolution of Panicoideae grasses using introns of a homeobox gene
Anya Penly; University of Missouri, St. Louis

Nucleotide variability at G6PD in the Kurdish Jew population
Julia Kim; University of Arizona

A genealogy for European corn borer pheromone strains based on the (delta) 11 desaturase gene
Kerry Geiler; Cornell University

Temporal autocorrelation analysis of pollen variation in *Albizia julibrissin*
Lisa M. Bono; Rutgers University

Evolution of maternal effects: allocation of nutrients and antioxidants
Rosetta Mui; University of Arizona

An ndhF chloroplast phylogeny of the *Andropogonaea*
Shelby Kleweis; University of Missouri, St. Louis

Evolution of Opistobranch Gastropods by comparing complete mitochondrial genomes
Tori Takaoka; Berkeley High School

Functional analysis of the *C. elegans* Grailyhead transcription factor
Heather McManus; Boston University

Can mated females take the heat? Mating status affects thermotolerance in *Drosophila melanogaster*
Katie Provost; The College of William and Mary

The reproductive ecology of the alien invasive love bug, *Plecia nearctica*
Christina White; University of South Carolina

The effects of isolation-by-distance and phenology on population structure in a vernal pool annual plant
Cris Ledon-Rettig; University of California, Davis

► PARTICIPANT LIST / AUTHOR INDEX: A-B

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Guide to Chico Restaurants

KEY TO SYMBOLS & ABBREVIATIONS		\$—Entrees priced under \$5	\$\$—Entrees priced \$5 - \$10
DR—Driving recommended		\$\$\$—Entrees priced \$10 - \$15 ATM—Accepts debit cards or has ATM	\$\$\$\$—Entrees priced \$15 and up CC—Major credit cards accepted

Fine Dining

5th Street Steakhouse
345 W. 5th Street at Normal
(530) 891-6328
full bar, dinner house
\$\$\$\$, CC

Albatross
3312 Esplanade
(530) 345-6037
Seafood & Pasta
DR, \$\$\$, CC

Basque Norte
3355 Esplanade
(530) 891-5204
Basque, family style
DR, \$\$\$, CC

Black Crow Grill & Taproom
209 Salem Street at 2nd Street
(530) 892-1391
full bar, dinner house
\$\$\$, CC

Caffé Malvina
234 3rd Street
(530) 895-1614
Italian food
 \$\$, CC

Chan Pheng's
1140 Mangrove Avenue
(530) 894-6888
Hunana & Sezchuan
DR, \$\$

Chico Brewhouse
250 Cohasset Road
(530) 894-2149
Californian & pub cuisines
DR, \$\$\$, CC

Christian Michael's
192 E. 3rd Street
(530) 894-4005
Californian & mediterranean
 \$\$, CC

Franky's
506 Ivy Street
(530) 898-9948
Italian dinner house, full bar
 \$\$, CC

Gen Kai
2201 Pillsbury Road
(530) 345-7226
Traditional Japanese, Great sushi!
DR, \$\$, CC

Gina Marie's
305 Main Street
(530) 342-2420
Italian, full bar
 \$\$, CC

Grayatip Thai
2574 Esplanade
(530) 899-1055
Thai food
DR, \$\$

Kramore Inn
1903 Park Avenue
(530) 343-3701
Crepes – dinner and lunch
DR, \$\$, CC

Logan's Roadhouse
1900 E. 20th Street
(530) 896-1147
Steak House
DR, \$\$\$, CC

Nash's Restaurant
1717 Esplanade (at 7th Ave.)
(530) 898-8112
Fine foods & spirits
DR, \$\$\$, CC

Olive Garden
2020 Business Lane
(530) 898-8075
Italian specialties
DR, \$\$, CC

Outback Steakhouse
1990 E. 20th Street
(530) 891-1098
Steak and seafood, Aussie-style
DR, \$\$, CC

Raw Bar & Sushi
346 W. 3rd Street
(530) 897-0626
Sushi & more
 \$\$, CC

Red Tavern
1250 Esplanade (at 3rd Avenue)
(530) 894-3463
Formal California cuisine
\$\$\$\$, CC

Redwood Forest Restaurant
121 W. 3rd Street
(530) 343-4315
Casual, wine tasting
 \$\$, CC

Ristorante Pulcinella
142 Broadway
(530) 894-5014
Southern Italian Cuisine
 \$\$, CC

ShadeTree Restaurant
817 Main Street (at 9th Street)
(530) 891-5798
Vegetarian world fare
 \$\$

Sicilian Café
1020 Main Street
(530) 345-2233
Sicilian food
 \$\$, CC

Sierra Nevada
1075 E. 20th Street
(530) 345-2739
Great beer – full dinners
DR, \$\$, CC

Tres Hombres Restaurant
100 Broadway (at 1st Street)
(530) 342-0425
Full bar, Mexican cuisine
 \$\$, CC

Turandot
1851 Esplanade
(530) 893-1156
Beijing & Manchurian cuisine
DR, \$\$\$, CC

GUIDE TO CHICO RESTAURANTS: CASUAL DINING ◀

Casual Dining

1st Street Deli
215 W. 1st Street
(530) 895-8462
Deli café
\$, CC, ATM

Aca Taco
133 Broadway
(530) 894-0191
Acapulco-style
\$, ATM

Applebee's Neighborhood Grill and Bar
2030 Business Lane
(530) 343-6888
Bar and Grill
 \$\$, CC, DR

Brooklyn Bridge Bagel Works
117 2nd Street
(530) 345-3443
New York style chewy bagels
\$, ATM

Bunz
208 Cedar St.
(530) 345-9100
Sports Bar
 \$\$, ATM, CC

Burger Hut
933 Nord Avenue
(530) 891-1418
Build your own burger bar
DR, \$, ATM, CC

Bustolini's Delicatessen
800 Broadway
(530) 892-1790
Italian deli
 \$\$, CC

Celestino's Pizza
101 Salem Street
(530) 896-1234
Whole or by the slice
\$, ATM, CC

Chada Thai
117-B W. 2nd Street
(530) 342-7121
Thai, vegetarian menu
 \$\$, CC

Casa Lupe
2490 Park Ave.
(530) 893-5050
Mexican, family restaurant
DR, \$\$, CC, ATM

California Pasta Productions
118 W. East Ave.
(530) 343-6999
Pasta, soups and salad
DR, \$\$, CC

Cory's Sweet Treats & Gallery
230 W. 3rd Street
(530) 345-2955
Brunch and sandwiches
 \$\$

Firestorm
128 W. 2nd Street
(530) 345-3223
Pizza by the slice or whole
\$, ATM

Gashouse Pizza
2359 Esplanade
(530) 345-3621
Great Pizza!
DR, \$\$\$, CC

The Golden Waffle
701 Main Street
(530) 891-1940
Country-style breakfast & lunch
 \$\$, ATM, CC

The Graduate
344 W. 8th Street
(530) 343-2790
Beer and burgers
 \$\$, ATM, CC

Grilla Bites
119 W. 2nd Street
(530) 894-2691
Organic soups and sandwiches
 \$

La Hacienda
2635 Esplanade
(530) 893-8270
Mexican, family restaurant
DR, \$\$

Humboldt Café
265 Humboldt Avenue
(530) 893-1979
Vegetarian food
DR, \$

Jack's Family Restaurant
540 Main Street
(530) 343-8383
Homemade food, family style
\$, ATM, CC

Hula's Chinese BBQ
1937 E. 20th Street
(530) 342-6304
All-you-can-eat Mongolian BBQ
DR, \$\$, ATM, CC

Italian Cottage
2234 Esplanade
(530) 343-7000
Casual family restaurant
DR, \$\$, CC

Jamba Juice
201 Broadway
(530) 345-5355
Fresh juice & smoothies
\$, ATM, CC

Jasco's Grill
300 Broadway (Upstairs)
(530) 899-8075
Casual California cuisine
 \$\$, CC

Kona's Subs
138 Main Street
(530) 893-4344
Sandwiches
\$, ATM, CC

Madison Bear Garden
316 W. 2nd Street at Salem
(530) 891-1639
Beer, full bar, and burgers.
 \$\$, ATM, CC

Morning Thunder Café
352 Vallombrosa Avenue
(530) 342-9717
Great breakfast and lunch
 \$\$

Moxie's Café and Gallery
128 Broadway
(53) 345-0601
Breakfast, lunch, wine, beer
 \$

Nobby's Burgers
1444 Park Avenue (at 14th Street)
(530) 342-2285
Great burgers!
DR, \$

► GUIDE TO CHICO RESTAURANTS: CASUAL DINING / COFFEE & SWEETS / FAST FOOD

Casual Dining

(Continued)

Peeking Chinese Restaurant

243 W. 2nd Street

(530) 895-3888

Casual Chinese

\$\$, ATM, CC

Pommes Frites

138 Broadway

(530) 893-9622

Belgian style french fries

\$

Sam's House of Hofbrau

134 Broadway

(530) 893-5253

Old-fashioned hofbrau

\$\$, ATM, CC

Smokin' Moe's BBQ

131 Broadway

(530) 891-6677

Southern-style BBQ

\$\$, ATM, CC

Sipperi's Deli

971 East Ave.

(530) 891-4797

Best kept sandwich secret

\$

Sultan's Bistro

5th Street at Broadway

(530) 345-7455

Salads, gyros

\$\$

Upper Crust Bakery & Gallery

130 Main Street (at 1st Street)

(530) 895-3866

Coffee, pastries, light lunch

\$\$, ATM, CC

Woodstock's Pizza

166 E. 2nd Street

(530) 893-1500

Pizza

\$\$, ATM, CC

Coffee, Desserts, & Sweets

Baskin Robins

668 Mangrove Ave.

(530) 895-0731

Coffee and ice-cream

\$\$, CC

The Bean Scene

Coffeehouse & Gallery

1387 East 8th Street

(530) 898-9474

Coffee, light lunch, beer on tap

DR, \$\$

Bidwell Perk

664 E. 1st Ave

(530) 899-1500

Great coffee and atmosphere

DR, \$\$, ATM, CC

Café Max

101 Salem Street, Suite 101

(530) 345-6655

Coffee, sandwiches, and pastries

\$\$, ATM, CC

Café Mondo

951 Nord Avenue

(530) 895-0878

Coffee and icecream

\$\$

Cafe Paulo

642 W. 5th Street

(530) 343-0704

Espresso and baked goods

\$\$, CC

Coldstone Creamery

146 Broadway

(530) 891-3331

Ice cream mix-ins

\$

Has Beans

501 Main Street

(530) 893-3033

Internet cafe & art

\$\$, ATM, CC

Jon & Bon's Yogurt

300 Broadway (downstairs)

(530) 899-9580

Frozen yogurt

\$

Moxie's Café & Gallery

128 Broadway

(530) 345-0601

Coffee, music, and art

\$

The Naked Lounge

118 W. 2nd Street

(530) 895-0676

Great coffee and tea

\$\$, CC

Peet's Chico

145 Main Street

(530) 894-6716

Coffee and light pastries

\$

Shubert's Ice Cream & Candy

178 E. 7th Street

(530) 342-7163

Home-made ice cream

\$\$, CC

Sin of Cortez

2290 Esplanade

(530) 879-9200

Coffee & great breakfasts

DR, \$\$, CC

Starbuck's Coffee

246 Broadway

(530) 343-7469

Coffee & baked goods

\$

Upper Crust Bakery & Gallery

130 Main Street (at 1st Street)

(530) 895-3866

Coffee, pastries, light lunch

\$\$, ATM, CC

Fast Food

Fosters Freeze

900 Broadway

(530) 342-7052

Jack in the Box

500 Broadway

(530) 893-5198

Subway

148 Main Street

(530) 343-4643

Taco Bell

450 Broadway

(530) 345-7649

Local Attractions

Bidwell Mansion State Historic Park

525 The Esplanade / (530) 895-6144

The Bidwell Mansion, a three-story Italianate villa, was completed in 1868 and was the home of Chico founders, John and Annie Bidwell. Many famous historical figures, including John Muir, Ralph Waldo Emerson, and William T. Sherman, were guests at this restored mansion located adjacent to Chico State University in downtown Chico. Guided tours are available daily. Special tours will be available during the Evolution picnic on Sunday, June 22.

Chico Art Center

450 Orange Street / (530) 895-8726

Located in the renovated old Chico railroad depot, the Chico Art Center has ongoing visual art displays featuring California artists.

Chico Creek Nature Center

1968 E. 8th Street / (530) 891-4671

Chico Creek Nature Center is the interpretive center for Bidwell Park. Programs feature nature walks and a Live-Animal/Living History Museum designed to encourage responsible interaction with the environment

Chico Museum

141 Salem Street / (530) 891-4366

The museum is located in the beautiful Arts and Crafts Carnegie Library building. The history of Chico is featured as a permanent exhibition. Many rotating historic exhibits are also featured. There is no cost but donations are appreciated.

Downtown City Plaza

Centrally located in downtown Chico, this park area is perfect for lunch or relaxing. Concerts are given in the Gazebo on Friday nights during the summer.

Friday, June 20: The Skyliners—Big Band/Swing

Downtown Murals

Chico is home to many fabulous murals. They are a delightful touch to an already charming downtown.

The Farmer's Market

A long-time Chico tradition, The Farmer's Market features fresh fruit, produce, flowers and more. Held at the Municipal parking lot on East 2nd Street and Wall Street from 7:30am-1pm, every Saturday.

Gold Nugget Museum

502 Pearson Road / (530) 872-8722

The Gold Nugget Museum is a history museum of the Paradise Ridge. While the Museum covers the full range of human history on the Ridge, its focus is on the Gold Rush years. The largest almost pure gold nugget ever found in California, weighing in at 54 pounds, was discovered here in 1859.

Honey Run Covered Bridge

One of the few covered bridges left in California and the only tri-span bridge in the United States, Honey Run Covered Bridge is located in beautiful Butte Creek Canyon just outside of Chico.

National Yo-Yo Museum at Bird In Hand

320 Broadway / (530) 893-1414

This is the home of the Duncan Family collection and features yo-yos from the 1920s through the 1950s. The world's largest yo-yo can also be found here.

Orient & Flume Art Glass Studio

2161 Park Avenue / (530) 893-0373

Tours are available to view the world renown Orient and Flume glass artwork being created. Studios are open for individual tours.

Satava Art Glass

819 Wall Street (530) 345-7985

Studios are open Mon-Sat 9am-4pm. Hand-blown art glass and studio demos available.

Sierra Nevada Brewing Company

1075 East 20th Street / (530) 893-3520

Sample award-winning ales produced on-site and enjoy fine dining in Sierra Nevada's taproom and restaurant. Tours of the brewery are available.

Stansbury House

307 W. 5th Street / (530) 895-3848

A guided tour is available of the 1883 former home of Dr. Oscar Stansbury. The Victorian home is beautifully preserved. The house is located on the corner of Fifth and Salem streets and was listed on the National Register of Historic Places in 1975.

Thursday Night Market

(6:00pm - 9:00pm, all summer)

The Thursday Night Market is a farmers market and entertainment for all. Held between Main and Broadway and 2nd – 4th Streets.

► THINGS TO DO IN CHICO AND NEARBY: BIDWELL PARK / BICYCLING IN CHICO

Bidwell Park

Bidwell Park, Chico's crown jewel, was established in 1905 by Annie Bidwell, wife of Chico's founding father, John Bidwell. Originally the land was part of the Bidwell's Rancho del Arroyo Chico, one of the first major agricultural proprietorships in California. After John Bidwell's death, Bidwell Park was donated to the City of Chico via a series of deeds between 1905 and 1911. The original property was approximately 2,300 acres. Since that time, the City has purchased additional land, such as Cedar Grove in 1922 and 1,200 acres of land south of Big Chico Creek in Upper Park in 1995.

Today, the total Park size is 3,670 acres (nearly 11 miles in length along the banks of Big Chico Creek), making it the third largest municipal park in the United States. The park features an 18-hole golf course; baseball fields; swimming holes; and a children's playground; plus roads and miles of trails for jogging, hiking, bicycling, and horseback riding.

Movies, such as the 1937 filming of the original Adventures of Robin Hood starring Errol Flynn, gave the park national attention with its towering oaks, bubbling creeks, and miles of majestic views. Other movies filmed in Bidwell Park include Gone with the Wind and Red Badge of Courage.

Bidwell Park is comprised of three major sections: Lower Park, Middle Park and Upper Park. Bidwell Park is divided by Manzanita Avenue. The area west of Manzanita Avenue is referred to as Lower Park and the area to the east is referred to as Upper Park. Lower Park is flat and level with a thick canopy of Valley Oak woodland and riparian vegetation, which provide ample shade for visitors.

Lower Park is a treasure trove of recreational opportunities for the public, including playgrounds; natural swimming areas; and vehicle-free roads for runners, cyclists, rollerbladers and walkers – all which are within walking distance to downtown and the university.

Middle Park features ball-playing fields, picnic areas, the World of Trees walk (which is accessible to the physically challenged) and the Chico Creek Nature Center, the park's environmental and informational headquarters. This portion of Bidwell Park is open to motorized traffic, providing the perfect venue for some of Chico's unique outdoor cultural events, such as Shakespeare in the Park performances and the Chico World Music Festival.

Upper Park remains relatively untouched with majestic canyons overlooking Big Chico Creek, which contains some of the most spectacular swimming areas in Northern California. Upper Park is located in the foothills of the Sierra Nevada with dominant plant communities of chaparral, blue oak woodland, riparian vegetation, mixed evergreen woodland, and ponderosa pine forest. The terrain varies from rolling to steep, with many rock formations, including the unique Chico Sandstone and Lovejoy Basalt rocks. In recent years, Upper Park has become a mecca for mountain bikers with 25 of its 35 trails open to cyclists. Equestrians and hikers also share this vast playground of recreational opportunities.

Recreation in Bidwell Park

Bidwell Park caters to many recreational past times. For those interested in swimming, the Sycamore Pool, located at the One-Mile Recreation Area, is an uncommon swimming experience. It is a concrete pool built around Big Chico Creek with lifeguards on duty from Memorial Day weekend to Labor Day weekend each year. When swimming in Big Chico Creek be sure to use caution. Water which may appear to be shallow and/or slow moving can actually be swift and powerful. Stay in areas where there is no white water and when possible, swim with friends. Also, as with all other activities, bring enough drinking water to stay hydrated.

Hiking in Bidwell Park is a perfect way to spend a day. All trails in Bidwell Park are open to pedestrians. The pedestrian-only Yahi Trail in Upper Park is a recommended visit. Yahi Trail offers hikers miles of scenic views along Big Chico Creek. Be sure to wear comfortable shoes and to bring plenty of drinking water.

Mountain biking is one of the most common activities that takes place in Bidwell Park. There are miles upon miles of trails to ride on. Some of the basic bike rules are:

- No riding on Yahi Trail (a pedestrian only trail)
- No bikes on Upper Park trails when closed due to wet conditions.
- Helmets must be worn by people of all ages when riding off of pavement in Upper Park.

To further ensure that you have a safe and enjoyable time, bring plenty of drinking water and a tire patch kit.

Bicycling in Chico:

Chico is a very bicycle friendly town! Chico is a convenient community for bicycling, as it is relatively flat and there are ample bike parking locations as well as bike lanes and bike paths throughout the community. Virtually everything in town is bicycling distance (within 5 miles, but mostly within 2 miles).

Bicycle rentals are available from the following downtown locations:

North Rim Adventure Sports: (530) 342-2453

E. 2nd St (just east of Main St.)

Mon-Sat 10-6, Sun 11-4

\$25 per day for front suspension; \$35 per day for full suspension

Sports Ltd: (530) 894-1110

3rd & Main

Mon-Fri 9-9:30, Sat-Sun 10-6

\$15-30 per day depending on bike

Camput Bicycles: (530) 345-2081

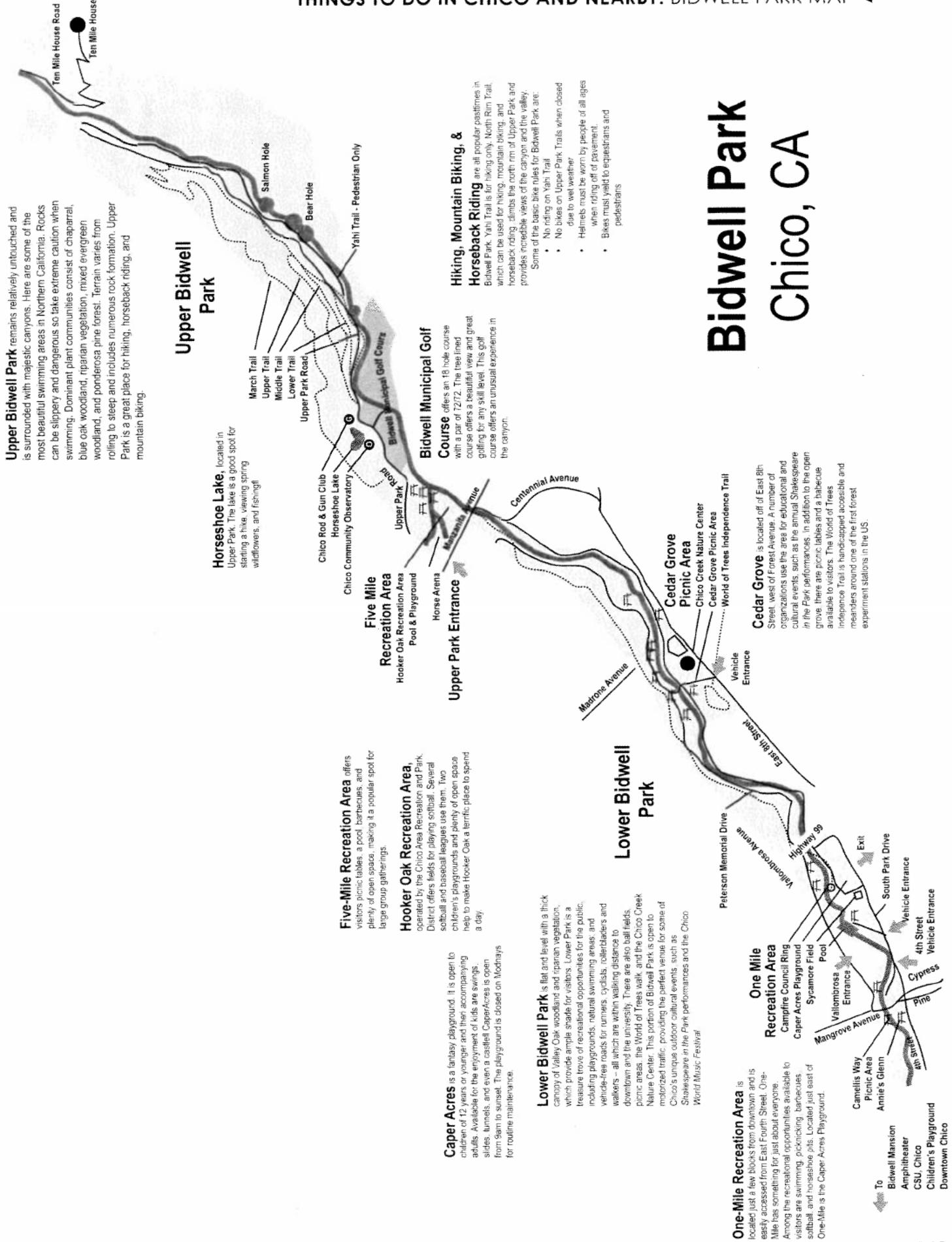
4th and Main

Mon-Sat 9-6, Sun 11-5

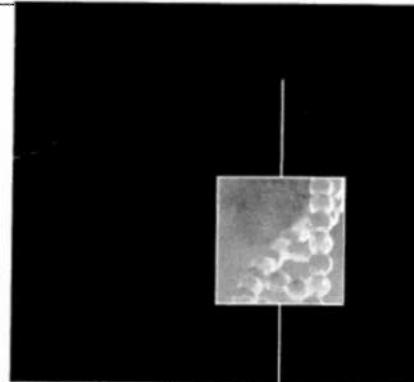
\$35 per day; \$20 per half day - any bike

(Rental prices subject to change)

THINGS TO DO IN CHICO AND NEARBY: BIDWELL PARK MAP ▲



Heredity

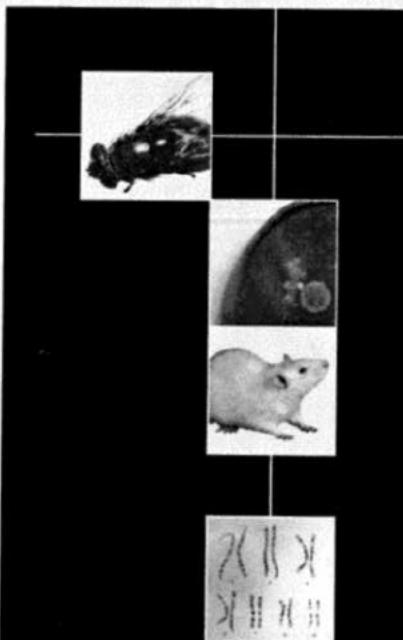


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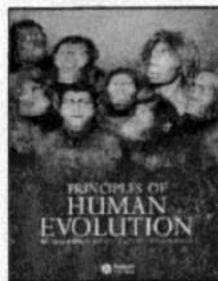
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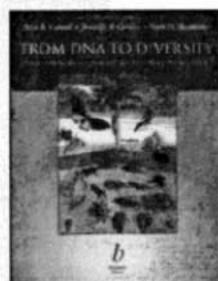


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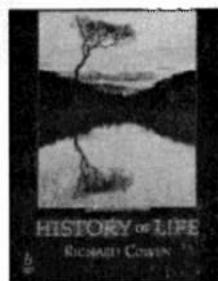


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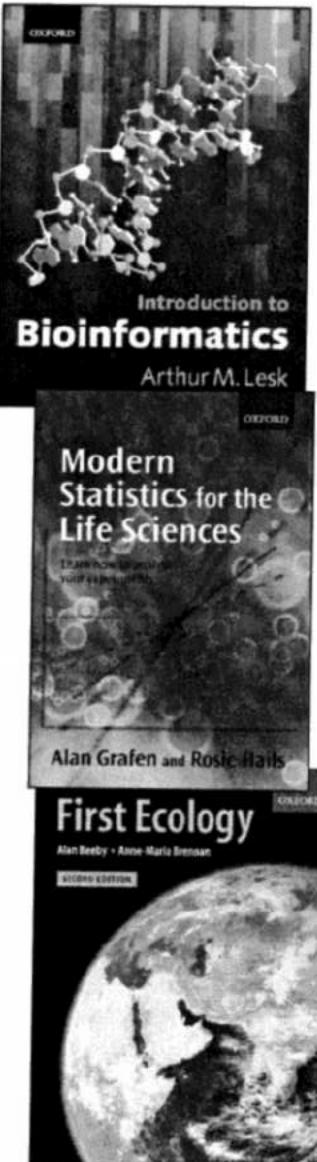
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(Santa Fe Institute Studies on the Sciences of Complexity)
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In the last decade or so, scientists have started to examine a new approach to the patterns of evolution and extinction in the fossil record. This approach may be called "statistical paleontology," since it looks at large-scale patterns in the record and attempts to understand and model their average statistical features, rather than their detailed structure. The book, developed after a meeting at the Santa Fe Institute on extinction modeling, comments critically on the various modeling approaches.

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Notes:

In-town Trolley Schedule

Trolley service between local hotels and the campus is available June 20-24. Trolleys will run daily between 7-10am, 12-2pm, and 5-10pm. Detailed departure and arrival times for each trolley stop location will be available at the conference hotels and at the registration desk in the Bell Memorial Union (BMU).

Trolley A

Stop 1 — Best Western Heritage Inn
 Stop 2 — Holiday Inn
 (will serve as Trolley Stop for Motel 6 & Super 7)
 Stop 3 — Town House Motel
 Stop 4 — Matador Inn
 Stop 5 — The Grateful Bed
 Stop 6 — University Village
 Stop 7 — Bell Memorial Union at 2nd and Hazel Streets
 (at the city bus shelter)

returns to

Stop 1 — Best Western Heritage Inn

Trolley B

Stop 1 — Oxford Suites
 Stop 2 — Heritage Inn Express
 (will serve as Trolley Stop for Days Inn)
 Stop 3 — Vagabond Inn (5 block walk to campus)
 Stop 4 — Mechoopda & Esken Halls
 Stop 5 — Bell Memorial Union at 2nd and Hazel Streets
 (at the city bus shelter)

returns to

Stop 1 — Oxford Suites

Airport Shuttle Service

Transportation to the Sacramento Airport is available on Tuesday, June 24, and Wednesday, June 25. If you purchased bus transportation at the time of registration, you received a ticket for the return shuttle at the time of check-in. If you did not purchase bus transportation in advance but would like to do so, please check at the registration desk in the BMU. A limited number of tickets may be available.

Airport shuttle busses will pick up passengers at the conference hotels included on the in-town trolley schedule and at university housing (Whitney Hall included). Detailed pick up times for each hotel and university housing will be available at the hotels, in the housing units, and at the registration desk in the BMU.

Please sign up at the registration desk for your preferred departure time.

Tentative schedule (may be adjusted based on demand):

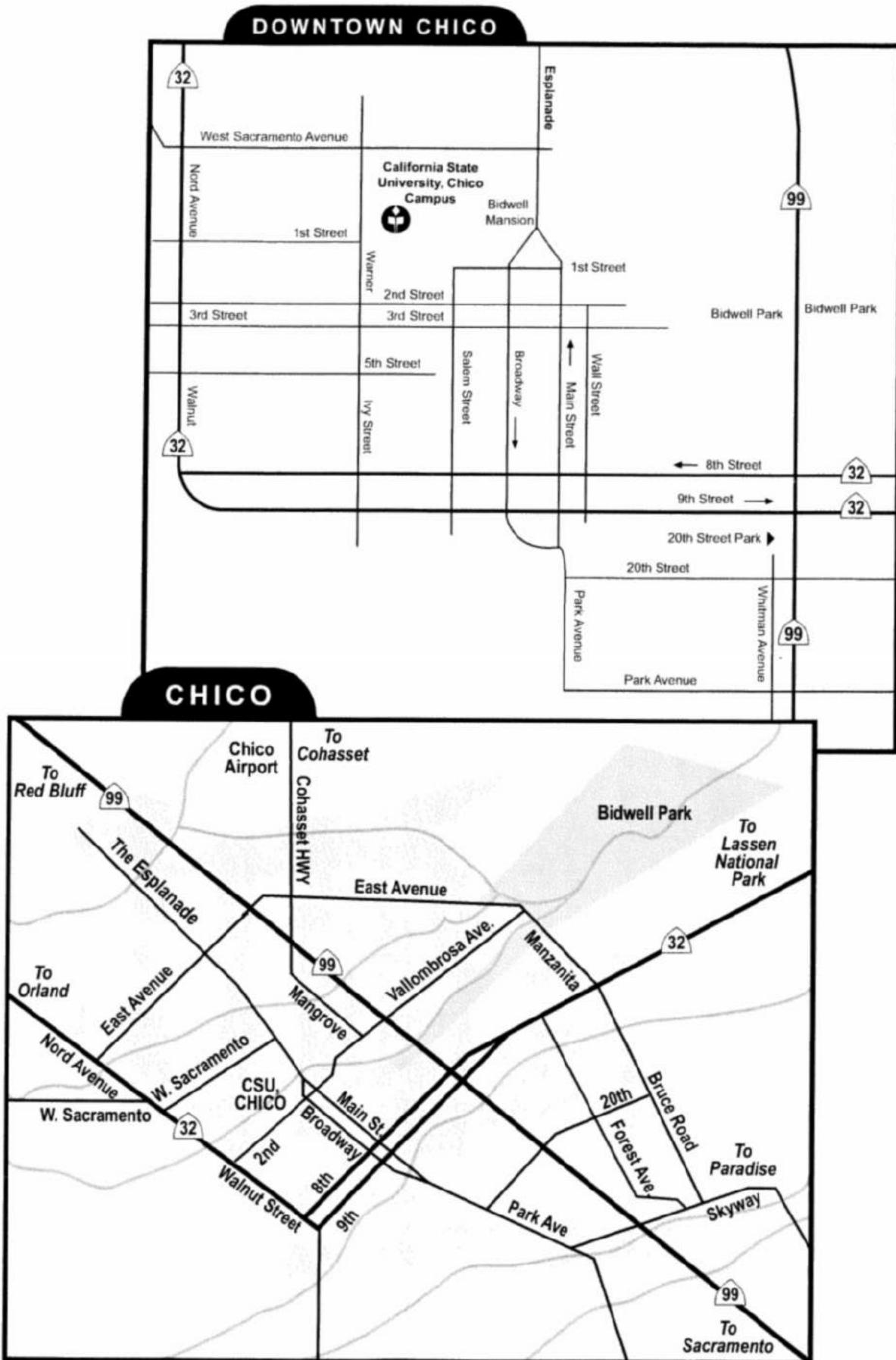
Tuesday, June 24

Depart Chico:	Arrive at the Sacramento Airport:
12-1pm	2:30pm
2-3 pm	4:30pm
4:30-5:30pm	7pm
6:30-7:30pm	9pm

Wednesday, June 25

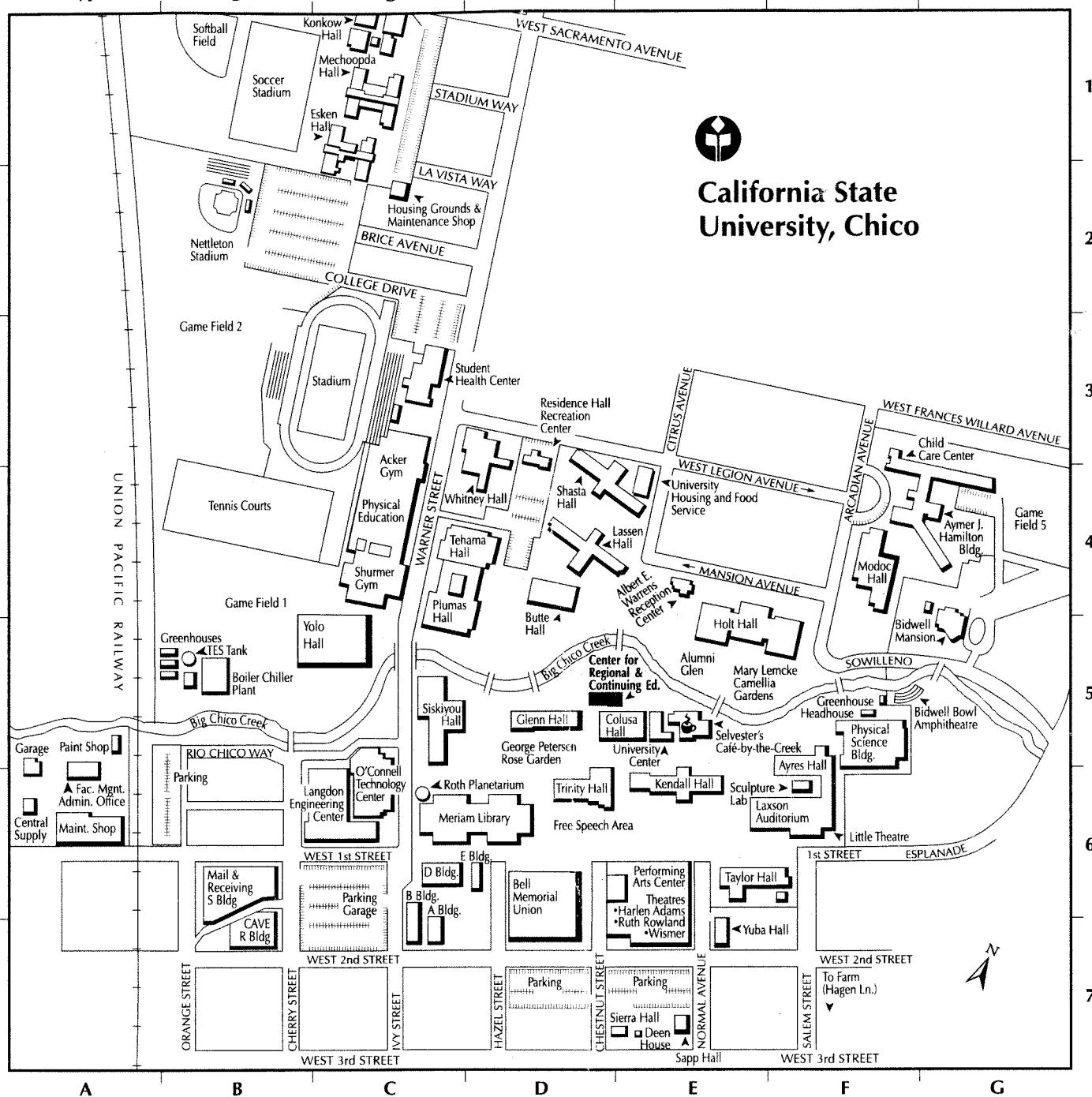
Depart Chico:	Arrive at the Sacramento Airport:
5-6am	7:30pm
7-8am	9:30am
9-10am	11:30am
11am-12pm	1:30pm
1-2pm	3:30pm
3-4pm	5:30pm

► MAPS: CHICO AND DOWNTOWN CHICO





California State University, Chico



C7 A Building
 C4 Acker Gymnasium
 C7 Admissions (Sutter)
 E4 Albert E. Warrens Reception Center
 E7 Alumni (Sapp)
 E5 Alumni Glen
 D7 AS. Services (Bell Mem.Union)
 G4 Aymer J. Hamilton Building
 F6 Ayres Hall
 C7 B Building
 D6 Bell Memorial Union
 F5 Bidwell Bowl Amphitheatre
 D4 Butte Hall
 D5 Center for Continuing Education
 E5 Colusa Hall
 7B Community Action Volunteers in Education (R Building)

E7 Deen House
 D6 E Building
 C1 Esken Hall
 A6 Facilities Management
 D6 Free Speech Area
 D5 Glenn Hall
 D5 George Petersen Rose Garden
 E7 Harlen Adams Theatre (PAC)
 E5 Holt Hall
 C6 Janet Levy Center (D Building)
 E6 Kendall Hall
 C1 Konkow Hall
 C6 Langdon Engineering Center
 D4 Lassen Hall
 F6 Laxson Auditorium
 F6 Little Theatre (Laxson)
 B6 Mail & Receiving (S Building)
 E5 Mary Lemcke Camellia Garden

C1 Mechoopda Hall
 D6 Meriam Library
 F4 Modoc Hall
 B2 Nettleton Stadium
 C6 O'Connell
 E6 Performing Arts Center (PAC)
 C4 Physical Education
 F5 Physical Science Building
 C4 Plumas Hall
 7B R Building
 D3 Residence Hall Rec Center
 C6 Roth Planetarium
 E7 Ruth Rowland Taylor Theatre (PA)
 E7 Sapp Hall (Alumni)
 E5 Selvester's Café-by-the-Creek
 D4 Shasta Hall
 C4 Shurmer Gymnasium
 E7 Sierra Hall

C5 Siskiyou Hall
 C3 Student Health Center
 E6 Taylor Hall
 D4 Tehama Hall
 D6 Trinity Hall
 E5 University Center
 E4 University Housing & Food Service
 E7 University Police (Yuba Hall)
 E7 University Sevices (Yuba Hall)
 C5 Yolo Hall
 E7 Yuba Hall
 D4 Whitney Hall
 E7 Wismer Theatre (PAC)