PROGRAM

2005 Annual Meetings
June 10-14, 2005

American Society of Naturalists

Society for the Study of Evolution

Society of Systematic Biologists

UAF
UNIVERSITY OF ALASKA
FAIRBANKS

University of Alaska Fairbanks
Fairbanks, Alaska

Welcome to Alaska for Evolution 2005

We are excited to host this year's conference. Many people have contributed to the planning and implementation of registration, program, logistics, and events. We thank them all for a job well done.

These meetings were locally arranged by a group of energetic and efficient people who lived, breathed, and worked on Evolution 2005 for months before the conference. We are glad to see it all come together and meet the people we have been corresponding with.

Sarah Sonsthagen and Kevin McCracken had the job of organizing all sessions of contributed papers and posters. Besides those mentioned in the program, credit for help in organizing symposia, public outreach lecture, undergraduate poster sessions, Ernst Mayr competition, diversity activities, and banquet program goes to Sam Donovan, Scott Edwards, Richard Klimann, Elizabeth Zimmer, Kelly Zamudio, and Jessica Gurevitch. The Institute of Arctic Biology, Provost's Office, and UAF Graduate School generously provided funds for more than a dozen graduate students and high school students to attend the conference.

Webmaster Eric Muehling created the online registration process and maintained the web page amongst all our changes, intricacies, and foibles. Web page and logo design were done by Christopher Shock.

Michelle Bartlett, conference coordinator, was our cheerleader, visionary, planner, and central point person. Pips Veazey seemed to be everywhere at once while organizing logistics, exhibits, and events. Mary Ann Borchert handled registrations, correspondence, and design of the program. Tania Rose, volunteer extraordinaire, helped with registration data and computer issues, as did Liz Kane. Stephanie Strandberg coordinated the on-campus housing and busing to and from campus, meetings, and evening events. Sarah Sonsthagen organized the wonderful tours, with Robert Wilson, Lee Taylor, Roger Ruess, Jamie Hollingsworth, Syndonia Bret-Harte, Ken Tape, and Richard Boone volunteering to help lead these tours and make them a reality.

To all the UAF staff at Conference Housing, Institute of Arctic Biology Business Office, Summer Sessions, Wood Center, Center for Academic Technology, Department of Computing and Communications, UAF computer and technical assistants, Security, Facilities Services, Physical Plant, Parking Services, Polar Express Office, Public Affairs, Catering and Food Services, Board of Regents Office, International Arctic Research Center, Geophysical Institute, Natural Science Facility, Fire Department, Student Recreation Center, Elmer E. Rasmuson Library, Large Animal Research Station, Music Department, Art Department, Theatre Department, and our student volunteers – Whew! We couldn't have done it without you, and we thank you for the wonderful support that you have provided.

June 10, 2005 Fairbanks, Alaska

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GENERAL CONFERENCE INFORMATION

REGISTRATION DESK

On Friday, June 10 and Saturday, June 11, the conference Registration Desk will be located in the Great Hall of the Fine Arts Building. After Saturday, registration will be handled near the Hospitality Desk in Wood Center.

Friday, June 10	9:00 am – 5:00 pm	Great Hall
Saturday, June 11	7:00 am – 5:00 pm	Great Hall
Sunday, Monday, Tuesday	Hospitality desk hours	Wood Center

NOTE: Registration will not be open during the Opening Reception.

HOSPITALITY DESK

The Hospitality Desk will be staffed 8:00 am to 4:00 pm each day. Flyers and information from local restaurants and attractions and a telephone for local calls will be available.

REFRESHMENT BREAKS

Morning and afternoon refreshment breaks will be held in two locations:

Saturday through Tuesday 10:00 - 10:30 am and 3:00 - 3:30 pm.
Wood Center
Great Hall of the Fine Arts Center

MEAL TIMES and LOCATIONS

Included in your registration fees – show name badge for entrance

Friday, June 10	- Opening Reception, Large Animal Research Station (LARS)	
	5:00 – 10:00 pm	Buses from campus (see below)
Saturday, June 11	- Barbecue and open mike – Wood Center – bring your talents!	
	6:00 – 8:00 pm, then Poster Session I (8:00 – 11:00 pm)	
Monday, June 13	- Dinner, Alaska Salmon Bake	Buses from campus (see below)
	6:00 – 8:00 pm, then Poster Session II (8:00 – 11:00 pm)	

Meal plan participants

Meals times and locations for people who purchased **meal plans** will be as follows:

Breakfast	7:00 – 8:00 am	Lola Tilly Commons
Lunch	11:45 am – 1:45 pm	Sack lunches
	(Pick up sack lunches at Wood Center or the Great Hall)	

To purchase food and beverages on campus

Wood Center SubArctic Subs serves Starbucks coffee, pastries, pizza, and sandwiches.

Friday, Monday, Tuesday	7:00 am – 5:00 pm
Saturday	7:00 am – 10:30 pm
Sunday	7:00 am – 8:30 pm

Wood Center Food Court grill serves hot and cold sandwiches, salads, and soups.

Every day 7:00 am – 2:00 pm

The Deck Cyber Café is in the upper Lola Tilly Commons. The cafe features North Pole coffee, casual menu, ice cream, wireless access, newspapers, community information.

Every day 9:00 am – 7:00 pm

Pub at the Deck in the upper Lola Tilly Commons for locally brewed beer and wine and light snacks (age 21 and older after 7 pm).

Saturday, Sunday, Monday 7:00 pm – 12 midnight

A list of local restaurants is located in the back of the printed Program, and more information is available at the Hospitality Desk.

MESSAGE BOARD

A message board is located near the Hospitality Desk in Wood Center.

PARKING

After 5 pm on weekdays and all day on weekends, parking is free in all lots on campus (except Handicapped and Reserved spaces). On weekdays during the day, please park in the lower campus visitor lots. No special parking permits are necessary for conference attendees to park in these lots. Free shuttles run from 7:30 am to 7:30 pm from these lots throughout campus. Two-hour metered visitor parking spaces are located in the Signers' Hall and Bunnell lots.

SHUTTLE BUS SERVICE

Airport shuttle to and from campus:

This service is provided for those staying in campus housing. A shuttle will meet planes as they arrive in Fairbanks June 9, 10, and 11. The airport is about 15 minutes from UAF. Please check at the Hospitality Desk for return bus schedules.

Shuttle to evening events from campus:

All buses leave from Wood Center, upper level.

Friday, June 10 - Opening Reception, Large Animal Research Station (LARS)
Buses leave 5:00 – 8:00 pm
(Buses will also pick up at local hotels, this evening only)

Note that parking is not available for private cars at the Opening Reception at LARS. Please plan to take a shuttle bus to and from campus to LARS, rather than driving your own vehicle.

Sunday, June 12 - Cruise and dinner, Riverboat Discovery, advance purchase tickets only
Buses leave 6:00 pm

Monday, June 13 - Dinner, Alaska Salmon Bake
Buses leave 5:00 – 7:00 pm

Please check at the Hospitality Desk and watch for signs for bus departure locations and times.

Shuttle from evening events to campus and hotels:

Buses are available for transportation from the off-campus evening events back to campus and then to local hotels. A map showing the hotels and the route for each bus will be available. Please note the departure locations and times. The last bus will leave to go to hotels at 11:00 pm each evening.

TELEPHONE NUMBERS

Conference Center – Hospitality Desk	474-1757
UAF information	474-7211 or 474-7034
Campus Police	474-7721
UAF Conference Housing	474-6769

Emergency – All campus phones and pay phones have 911 access. Special emergency phones are marked with blue lights and are available for use throughout the UAF campus.

T-SHIRTS

Conference t-shirts will be available for purchase at registration or the Hospitality Desk while supply lasts.

RECREATIONAL FACILITIES

The Student Recreation Center (SRC) is available to all registrants and their guests at a rate of $5 per day, payable at entrance. Facilities include a running track, free weights and weight

machines, and basketball and tennis courts. You will need to carry in an extra pair of sneakers to use the SRC facilities. (474-6814)

UAF BOOKSTORE

The UAF Bookstore in Constitution Hall carries a wide selection of general reading books, UAF clothing and insignia, personal care items, and an assortment of food and drinks. Hours are 7:45 am – 6:00 pm weekdays and 12 noon – 5:00 pm Saturday. (474-7348)

SMOKING POLICY

No smoking is allowed inside buildings at the University of Alaska Fairbanks, including residence halls, dining halls, and the student center.

SAFETY AND SECURITY

UAF is a safe and comfortable environment, but be prudent. Walk in the company of at least one other person, especially when off-campus. Call the Campus Police if you become aware of a situation that concerns you from a security or safety standpoint.

DO NOT LEAVE VALUABLES IN YOUR ROOM. NEITHER THE SOCIETIES, SSE/SSB/ASN, NOR THE UNIVERSITY OF ALASKA FAIRBANKS ARE RESPONSIBLE FOR LOST OR STOLEN ITEMS.

HEALTH and MEDICAL NEEDS

Day length - There are about 20 hours of possible sunlight in mid-June (sun up at 4:00 am and down at midnight) and, if it is not cloudy, there will be daylight all night. You may find sleeping more comfortable if you have eyeshades. Remember - just because its not dark out, it doesn't mean that it is not time to get some sleep.

Mosquitoes - Mosquitoes will probably be in good supply in mid-June, though not bad on campus. Elsewhere in Fairbanks you may want to carry mosquito repellant with you. Wearing long-sleeved shirts and long pants is recommended.

Aridity - Fairbanks, Alaska is very dry. Make sure you drink plenty of water.

Temperature - Be prepared for a range of temperatures at this time of year – we can expect a range of about 45-75 °F, but the record high was 91 °F and record low was 30 °F.

There are two walk-in medical facilities in Fairbanks

Fairbanks Urgent Care Center	452-2178	weekdays	7:00 am – 10:00 pm
1867 Airport Way, Suite 130B		weekends	10:00 am – 7:00 pm
Tanana Valley Clinic 1st Care	458-2682	weekdays	8:00 am – 8:00 pm
1001 Noble St.		Saturday	9:00 am – 5:00 pm

Two dentists are on call June 10-14. Both are located in the West Valley Plaza, 4001 Geist Rd.

Dr. Patricia Bergdahl	479-8423
Dr. Vaughan Hoefler	452-7955

POST OFFICE

The Post Office on campus (Constitution Hall) is open 10:00 am – 4:00 pm weekdays. A Fairbanks Post Office on Geist Road is open weekdays and 12:00 noon – 4:00 pm on Saturday.

ATM MACHINES on campus

Wood Center	(available during Wood Center hours)
Hess Commons - near the Housing Office	(available 24 hours)

BANKING

Northern Schools Federal Credit Union - Wood Center hours 9:00 am - 5:00 pm weekdays. Office on Geist Road is open weekdays and also 11:00 am – 4:00 pm on Saturday.

UAF INFORMATION TECHNOLOGY ESSENTIALS

All users of University computing hardware, software, networking services, or any property related or ancillary to the use of these facilities must abide by this agreement. See the computing professionals in the Technology Center off the Great Hall if you did not receive information via email or have not received your UAF user ID and password for wireless access.

Acceptable Network Usage Agreement

The University expects that all persons who make use of University computing hardware, software, networking services, or any property related or ancillary to the use of these facilities will abide by the following policy statement:

University information technology resources are provided to the university community and are to be used in the spirit of mutual cooperation. Resources are limited and must be shared. Everyone benefits when computer users avoid activities which may cause problems for others sharing the systems.

Hardware, software, and related services supplied by the University are intended for the purpose of implementing and supporting the university's mission, as set forth in Board of Regents Policies and Regulations. Misuse of these facilities is a violation of those Policies and Regulations, and may additionally be illegal. It is a violation to provide or obtain passwords to accounts other than one's own.

By making use of UAF facilities you agree to the following conditions:

You will not use university hardware, software or services without proper authorization. You agree to use licensed software on university machines; copying, distributing and/or using software without proper licensing is a violation of federal copyright law. You may not extend use of university computing facilities for any purpose beyond their intended use, nor beyond those activities sanctioned in Regents' Policy and Regulations.

University computing facilities may not be used:

- for personal profit or gain
- to harass, threaten, or invade the privacy of others
- to initiate or forward e-mail chain letters
- to cause breaches of computer, network or telecommunications security systems
- to initiate activities which unduly consume computing or network resources

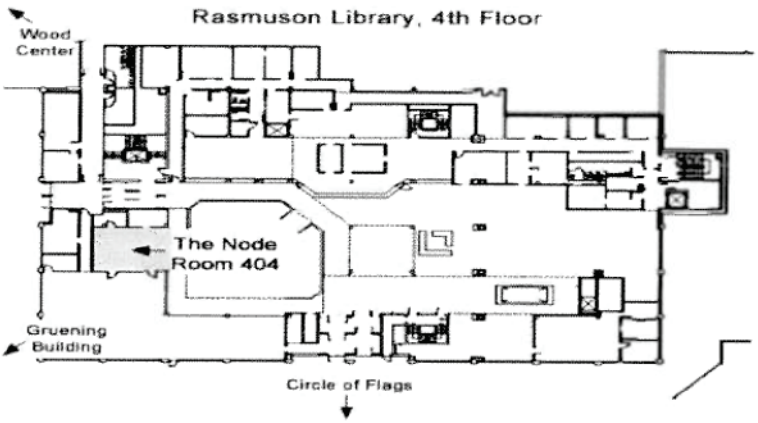
Individuals who violate this policy will be subject to disciplinary action and/or referral to law enforcement authorities. Division of Computing and Communications personnel are authorized to monitor suspected violations and to examine items stored on any university storage medium.

Computer system availability:

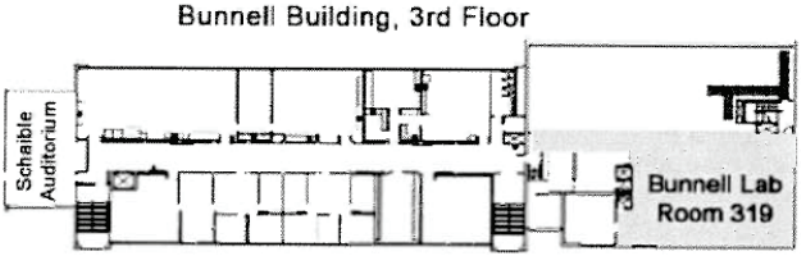
The Rasmusen Library has public terminals (ElmerNet Stations) available on the 4th floor during normal business hours. The ElmerNet stations have general web access and require no login.

Computer Labs:
UAF Computing has several open computer labs, locations and hours are listed below. Please see your campus map for directions.

404 Rasmuson Library (aka The Node)
Open during normal library hours, can be accessed through the 23 Hour Study Area. This lab is staffed 10:00 AM to 8:00 PM Monday through Friday.



319 Bunnell Building
Open and staffed 10:00 AM to 9:00 PM Monday through Friday, Noon to 9:00 PM Saturday and Sunday.



Printing:
Black and white printing is available in the Rasmuson library and in the computer labs. There is a 10 cent per page charge.

Color printing is available in the Bunnell Lab. There is a $.50 per page charge.

Wireless Network Access:
To access the UAFnet wireless network please see the UAF computing representative at the Technology Center off the Great Hall if you have not received email information.

Wired Network Access:
Ethernet connections are available in the Rasmuson Library and the Bunnell Lab. You must provide your own network card and cable.

BOOK AUCTION

June 10-June 13

Books and journal subscriptions (over 30 books and journals!) for this year's silent book auction to support graduate student travel were generously donated by the following:

Academia Books
Blackwell Publishing
John Hopkins University Press
Harvard University Press
Oxford University Press
Pearson Prentice Hall
Princeton University Press
Sinauer Associates
University of Alaska Press
University of California Press
University of Chicago Press
University of Chicago Press Journals

Thank you for your donations!

Books and journals are displayed near the Hospitality Desk, with bid cards located at each item. Please sign your name, affiliation, and your bid amount on the bid card. Bidding ends at 5pm Monday, June 13.

Note that all books must be picked up by Tuesday, June 14 at 5pm. Books not picked up will be donated to the UAF Institute of Arctic Biology. We cannot mail books to winning bidders.

Bid often and high! Funds generated from this auction support graduate student travel.

EXHIBITORS & PUBLISHERS

Exhibits are located in Wood Center on the main floor.

Friday, June 10	Set-up	9:00 am – 12:00 noon
	Show	12:00 noon – 5:00 pm
Saturday, June 11	Show	8:00 am – 5:00 pm and 7:00 - 10:00 pm
Sunday, June 12	Show	8:00 am – 5:00 pm
Monday, June 13	Show	8:00 am – 5:00 pm and 7:00 - 10:00 pm
Tuesday, June 14	Show	8:00 am – 12 noon
	Tear-down	12 noon – 5:00 pm

Academia Book Exhibits displays professional books and journals in a multi-publisher exhibit. www.acadbkex.com

Alaska Bird Observatory is a nonprofit organization dedicated to advancing the appreciation, understanding and conservation of birds and their habitats through research and education. Visit our booth Saturday or Sunday, or visit us online at www.alaskabird.org.

Blackwell Publishing is a leading international publisher in the area of science and medicine. Please stop by our booth for complimentary copies of our journals and visit our website www.blackwellpublishing.com for information on all of our publications.

Dragonfly Glass offers handcrafted and biologist-approved arthropods in stained and fused glass. Visit us on the web at www.dragonflyglass.biz. During the conference we will only be open on Monday and Tuesday, and shipping will be free on all conference orders.

National Science Foundation is the the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities.

Oxford University Press publishes academic books for many different topics. www.oup.com

Prentice Hall is a leading educational publisher committed to providing quality resources for faculty and students. We invite you to visit our booth to see our exciting new publications, including Rose/Mueller, *Evolution and Ecology of the Organism* and Freeman/Herron, *Evolutionary Analysis 3e*. Learn how we can help you provide the best resources for your students. www.prenticehall.com/biology

Princeton University Press publishes major works in evolution, ecology, and behavior. New titles include Wagner's *Robustness and Evolvability in Living Systems*, Arnquist and Rowe's *Sexual Conflict*, and new paperbacks, Kingdon's *Lowly Origin* and Knoll's *Life on a Young Planet*. 20% conference discount. www.pup.princeton.edu

SimBiotic Software is the leading developer of college biology teaching simulations, and our software is used in hundreds of universities around the world (including University of Alaska Fairbanks). At Evolution 2005 we will be introducing EvoBeaker, our new program for teaching evolutionary biology. In EvoBeaker, students conduct simulated experiments where thay learn and apply important concepts in both micro and macroevolutionary biology. Stop by to see a demo and get a sample copy. SimBiotic Software also produces programs for teaching ecology (EcoBeaker), cell biology (OsmoBeaker, Mitosis and Meiosis Demystified), and Neurobiology (NerveWorks). www.simbio.com

Sinauer Associates ALL NEW AND ON DISPLAY HERE! Futuyma: *Evolution* (shorter than *Evolutionary Biology* and exclusively directed toward undergraduates); Sax, Stachowicz, and Gaines: *Species Invasions: Insights into Ecology, Evolution and Biogeography*; Soltis, Soltis, Endress, and Chase: *Phylogeny and Evolution of Angiosperms*; Lomolino, Riddle, and Brown: *Biogeography*, Third Edition; Lomolino and Heaney: *Frontiers of Biogeography: New Directions in the Geography of Nature*. Stop by our booth to see these titles and more! www.sinauer.com

Taylor and Francis is proud to publish *Systematic Biology*, the official journal of the Society of Systematic Biologists. Stop by our booth during the meeting to learn more about our books and journals or visit us on the web any time at www.taylorandfrancis.com.

University of Alaska Press publishes and distributes literature about Alaska, the North Pacific Rim, and the circumpolar North. We publish in the fields of natural history, anthropology, history, and Native studies. www.uaf.edu/uapress

University of Chicago Press is a publisher of scholarly books and journals. www.press.uchicago.edu

CONGRATULATIONS TO THE STUDENTS SUPPORTED WITH TRAVEL GRANTS

Supported by the University of Alaska Fairbanks Institute of Arctic Biology, Provost's Office, and Graduate School

Liz Alter, Stanford University
Joseph Brown, University of Michigan
Kurt Galbreath, Cornell University
Eben Gering, San Francisco State University
Tanya Henderson, Indiana State University
Gabriela Ibarguchi, Queens University, Canada
Sanna Laakso, University of Turku, Finland
Holly Sabara, University of Guelph, Canada
Sean Sleight, Michigan State University
Jeannie A. Stamberger, Stanford University
Corinne Wilkerson, Memorial University of Newfoundland, Canada
Mary Mitchell, Mount Edgecumbe High School, Sitka, Alaska
Nicole Jeffrey, Barrow High School, Barrow, Alaska
Jordon Jeffrey, Barrow High School, Barrow, Alaska

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Felix Araujo-Perez, University of Puerto Rico
Joseph Bahlman, University of California-Davis
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Linda Boettger, University of California-San Diego
Carlos Flores, University of Arizona
Yearim Gutierrez, University of Puerto Rico
Monty Hawkins, Brigham Young University
Leslie Herrmann, Brown University
Sky Lee, University of California-Riverside
Aida Miro, University of Puerto Rico
Jerod Romine, Truman State
Fransisco Serna, Cornell College
Lee Shoa Long Clarke, Cornell University
Linh Vuong, University of Puget Sound

Supported by Brigham Young University, Society of Systematic Biologists, and Deep Gene - Undergraduate Symposium Presenters

Joseph Bahlman, University of California-Davis
Rebecca Baum, Brigham Young University
Andree Bennin, Brigham Young University
Dan Chappell, Brigham Young University
John Chaston, Brigham Young University
Edward B. Chuong, University of California San Diego
Lee Shoa Long Clarke, Cornell University
Raymond W. Grams, Brigham Young University
Yearimin Gutierrez, University of Puerto Rico
Cynthia Penaflor, Brigham Young University
Jerod Romine, Truman State University

INFORMATION FOR SESSION MODERATORS, SPEAKERS, AND POSTER PRESENTERS

MODERATORS

If you are moderating a session, please arrive 15 minutes early to ensure that audio-visual equipment is in place and functional, and that all presenters are accounted for. At each session, a graduate student volunteer will be on hand to take care of audio-visual needs. Each room will be equipped with a PC with CD drive and USB flash drive port, and a laser pointer. Zip drives will not be available.

In contributed paper sessions, 15 minutes are allotted to each speaker, including time for questions. The moderator should alert speakers when 3 minutes remain and if possible, when 1 minute remains. After 15 minutes, speakers will have to be asked to leave the podium without taking questions.

Please announce this format at the beginning of the session, and please stick to the schedule. If a speaker ends early or there is a cancellation, do not introduce the next speaker until their designated time to speak.

SPEAKERS

Oral presentations should be 12 minutes, with 3 minutes for questions (15 minutes, total). Please consult the program ahead of time to confirm the time and location of your talk. Only PCs with projectors will be available for presentations in each room, with CD drives and USB flash drive ports. Please plan to check in 15 minutes before the start of your session to load your presentation and meet the moderator.

The Technology Center (off the Great Hall) will be available on Friday June 10 and throughout the conference, 8:00 am – 4:00 pm, for presenters to check software compatibility. Please be sure to check compatibility the day before your presentation. Apple (Macintosh) users should verify that their files are compatible with PowerPoint or Adobe Acrobat for Windows at the Technology Center. Both PCs and Macs will be available in the Technology Center, but only PCs will be in each session for presenters to use.

POSTER PRESENTERS

All Poster Sessions will be held in the Great Hall of the Fine Arts Building. Numbered boards will correspond to the number assigned to your title in the program. Set-up poster times for the first session will be Saturday after 12 noon, and posters should be taken down by Sunday at noon. Second session presenters can set up Monday after 12 noon and should take down their posters by Tuesday at noon.

Posters should be no more than 4' x 4' (48 x 48 inches, or 122 x 122 cm). Posters can be hung by pins or tacks provided at the session.

Please plan to stand by your poster from 8-10 pm during your designated poster session.

SCHEDULE OF EVENTS

Friday June 10		
9:00 AM – 5:00 PM	Registration	Regents Great Hall
12:00 – 2:30 PM	Joint Council Meeting	Butrovich 109
2:30 – 5:00 PM	SSE Council Meeting	Butrovich 109
	SSB Council Meeting	IARC 401
	ASN Council Meeting	IARC 501
3:00 – 5:00 PM	Pre-conference tour – Permafrost Tunnel	Shuttle – Wood Center
5:00 – 10:00 PM	Opening Reception at Large Animal Research Station	Shuttle – Wood Center

Saturday June 11		
7:00 AM – 5:00 PM	Registration	Regents Great Hall
8:00 – 10:00 AM	Concurrent Sessions	
	Symposium: Ecotypic variation in the context of global climate change: Revisiting the "rules"	Charles Davis Hall
	Undergraduate Symposium: Empowering the next generation of evolutionary biologists	Natural Science 201
10:00 – 10:30 AM	**Break**	
10:30 AM – 12:00 PM	Concurrent Sessions	
	Symposium (cont.)	Charles Davis Hall
	Undergraduate Symposium (cont.)	Natural Science 201
12:00 – 1:30 PM	**Lunch Break**	
	SSE Editors *Evolution* Luncheon	IARC 401
	SSB Editors *Systematic Biology* Luncheon	IARC 501
	Workshop: Better tools for the systematics of tomorrow: Preserving and relating materials and information	Wood Center E & F
1:30 – 3:00 PM	Concurrent Sessions	
	Symposium: Population genetics of adaptation to Arctic and alpine environments	Charles Davis Hall
	Undergraduate Symposium (cont.)	Natural Science 201
3:00 – 3:30 PM	**Break**	
3:30 – 5:00 PM	Concurrent Sessions	
	Symposium (cont.)	Charles Davis Hall
	Undergraduate Symposium (cont.)	Natural Science 201
5:00 – 6:00 PM	**Public Outreach Lecture:** Endless forms most beautiful: The new science of evo devo and the making of the animal kingdom – Sean B. Carroll	Charles Davis Hall
6:00 – 8:00 PM	**Barbeque/Open Microphone**	Wood Center
8:00 – 11:00 PM	**Poster Session I** Please attend your poster from 8–10 PM.	Regents Great Hall

Sunday June 12		
8:00 – 10:00 AM	Concurrent Sessions	
	Symposium: Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities	Charles Davis Hall
10:00 – 10:30 AM	**Break**	
10:30 AM – 12:00 PM	Concurrent Sessions	
	Symposium (cont.)	Charles Davis Hall
12:00 – 1:30 PM	**Lunch Break**	
	Workshop: Finding a job in academic biology	Wood Center E & F
	Workshop: National Evolutionary Synthesis Center (NEScent) 'Town Meeting'	Wood Center C & D
	ASN Business Meeting	Lola Tilly Commons
1:30 – 3:00 PM	Concurrent Sessions	
	Symposium: American Society of Naturalists Young Investigators' Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture	Charles Davis Hall
3:00 – 3:30 PM	**Break**	
3:30 – 5:00 PM	Concurrent Sessions	
	Symposium (cont.)	Charles Davis Hall
5:00 – 6:00 PM	**SSE Presidential Address:** Adaptation and the species barrier – Dolph Schluter	Charles Davis Hall
6:00 – 9:00 PM	**Dinner on the Riverboat Discovery** (*advance purchase only*)	Shuttle – Wood Center

Monday June 13		
8:00 – 10:00 AM	Concurrent Sessions	
	Symposium: Genome analysis and molecular systematics of retroelements	Charles Davis Hall
	Symposium: Genetics and development of color pattern	Natural Science 201
10:00 – 10:30 AM	**Break**	
10:30 AM – 12:00 PM	Concurrent Sessions	
	Symposiums (cont.)	
10:30 AM – 12:00 PM	**Ernst Mayr Award Competition**	Gruening 306
12:00 – 1:30 PM	**Lunch Break**	
	Workshop: National Science Foundation	Wood Center C & D
	Workshop: EvoBeaker Teaching Workshop	Wood Center E & F
	ASN Editors *American Naturalist* Luncheon	Butrovich 109
1:30 – 3:00 PM	Concurrent Sessions	
	Symposium: American Society of Naturalists Vice-Presidential Symposium	Charles Davis Hall

	Symposium (cont.)	Natural Science 201
	Ernst Mayr Award Competition (cont.)	Gruening 306
3:00 – 3:30 PM	**Break**	
3:30 – 5:00 PM	Concurrent Sessions	
	Symposiums (cont.)	
5:00 – 6:00 PM	**SSB Presidential Address**	Charles Davis Hall
	TBA – David Canatella	
5:00 – 7:00	**SSB/SSE Undergraduate Diversity Social**	Shuttle – Wood Center
	at Alaska Salmon Bake	
6:00 – 8:00 PM	**Dinner at Alaska Salmon Bake**	Shuttle – Wood Center
8:00 – 11:00 PM	**Poster Session II**	Regents Great Hall
	Please attend your poster from 8–10 PM.	

Tuesday June 14		
8:00 – 10:00 AM	Concurrent Sessions	
	Symposium: Condition dependence, genetic variance, and the evolution of mating preferences	Charles Davis Hall
10:00 – 10:30 AM	**Break**	
10:30 AM – 12:00 PM	Concurrent Sessions	
	Symposium (cont.)	Charles Davis Hall
12:00 – 1:30 PM	**Lunch Break**	
1:30 – 3:00 PM	Concurrent Sessions	
	Symposium: Teaching phylogenetics at introductory undergraduate and precollege levels	Charles Davis Hall
3:00 – 3:30 PM	**Break**	
3:30 – 5:00 PM	Concurrent Sessions	
	Symposium (cont.)	
4:00 – 5:00 PM	**Undergraduate Diversity Pep Talk**	Gruening 303
5:00 – 6:00 PM	**ASN Presidential Address**	Charles Davis Hall
	Is it what we know or who we know? Choice of organism and robustness of inference in evolutionary biology and ecology – Joe Travis	
5:00 – 7:00 PM	**UA Museum Research Collection Tours**	UA Museum
7:00 – 10:00 PM	**Banquet/Awards**	SRC Field
	(*advance purchase only*)	

Wednesday June 15		
5:00 AM	Post-conference tour – Toolik Field Station (4 day trip)	Shuttle – Moore-Bartlett-Skarland Residence Hall
9:00 AM – 5:00 PM	Post-conference tour – Bonanza Creek LTER Site	Shuttle – Wood Center

Concurrent Sessions & Symposia Overview: Saturday June 11

Early Morning	Late Morning	Early Afternoon	Late Afternoon
UAM/UAF Symposium: Ecotypic variation in the context of global climate change: Revisiting the "rules" **Charles Davis Concert Hall**	**UAM/UAF Symposium**: Ecotypic variation in the context of global climate change: Revisiting the "rules" **Charles Davis Concert Hall**	**UAF/IAB Symposium**: Population genetics of adaptation to Arctic and alpine environments **Charles Davis Concert Hall**	**UAF/IAB Symposium**: Population genetics of adaptation to Arctic and alpine environments **Charles Davis Concert Hall**
Undergraduate Symposium: Empowering the next generation of evolutionary biologists **Natural Science 201**	**Undergraduate Symposium**: Empowering the next generation of evolutionary biologists **Natural Science 201**	**Undergraduate Symposium**: Empowering the next generation of evolutionary biologists **Natural Science 201**	**Undergraduate Symposium**: Empowering the next generation of evolutionary biologists **Natural Science 201**
Population genetics **Schaible Auditorium**	**Population genetics** **Schaible Auditorium**	**Population genetics** **Schaible Auditorium**	**Population genetic theory** **Schaible Auditorium**
Development and evolution **Wood Center C & D**	**Development and evolution** **Wood Center C & D**	**Quantitative genetics** **Wood Center C & D**	**Quantitative genetics** **Wood Center C & D**
Systematics **Wood Center Ballroom**	**Systematics** **Wood Center Ballroom**	**Systematics** **Wood Center Ballroom**	**Systematics** **Wood Center Ballroom**
Speciation **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**
Life history evolution **Gruening 208**	**Life history evolution** **Gruening 208**	**Life history evolution** **Gruening 208**	**Inbreeding** **Gruening 208**
Gene structure and function/ Genomics/Proteomics **Gruening 306**	**Genomics/Proteomics** **Gruening 306**	**Genomics/Proteomics** **Gruening 306**	**Bioinfomatics/Phyloinfomatics** **Gruening 306**

Concurrent Sessions & Symposia Overview: Sunday June 12

Early Morning	Late Morning	Early Afternoon	Late Afternoon
SSE Symposium: Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities **Charles Davis Concert Hall**	**SSE Symposium**: Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities **Charles Davis Concert Hall**	**ASN/SSE Symposium**: American Society of Naturalists Young Investigators' Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture **Charles Davis Concert Hall**	**ASN/SSE Symposium**: American Society of Naturalists Young Investigators' Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture **Charles Davis Concert Hall**
Population genetics **Schaible Auditorium**	**Population genetics** **Schaible Auditorium**	**Population genetics** **Schaible Auditorium**	**Population genetics** **Schaible Auditorium**
Animal mating systems **Gruening 208**	**Plant mating systems** **Gruening 208**	**Plant mating systems** **Gruening 208**	**Plant mating systems** **Gruening 208**
Phylogenetic theory and methods **Wood Center Ballroom**	**Phylogenetic theory and methods/ Systematics** **Wood Center Ballroom**	**Systematics** **Wood Center Ballroom**	**Systematics** **Wood Center Ballroom**
Speciation **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**	**Speciation** **Lee H. Salisbury Theatre**
Behavior/social evolution **Gruening 306**	**Behavior/social evolution** **Gruening 306**	**Evolution of sex** **Gruening 306**	**Evolutionary theory** **Gruening 306**
Arctic and alpine **Wood Center C & D**	**Arctic and alpine** **Wood Center C & D**	**Undergraduate presenters** **Wood Center C & D**	**Education** **Wood Center C & D**

Concurrent Sessions & Symposia Overview: Monday June 13

Early Morning	Late Morning	Early Afternoon	Late Afternoon
SSB Symposium: Genome analysis and molecular systematics of retroelements **Charles Davis Concert Hall**	**SSB Symposium**: Genome analysis and molecular systematics of retroelements **Charles Davis Concert Hall**	**ASN Symposium**: American Society of Naturalists Vice-Presidential Symposium **Charles Davis Concert Hall**	**ASN Symposium**: American Society of Naturalists Vice-Presidential Symposium **Charles Davis Concert Hall**
Symposium: Genetics and development of color pattern **Natural Science 201**	**Symposium**: Genetics and development of color pattern **Natural Science 201**	**Symposium**: Genetics and development of color pattern **Natural Science 201**	**Symposium**: Genetics and development of color pattern **Natural Science 201**
Phylogeography **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**
Phenotypic plasticity **Gruening 208**	**Phenotypic plasticity** **Gruening 208**	**Experimental evolution** **Gruening 208**	**Ecological genetics** **Gruening 208**
Species interactions **Wood Center C & D**	**Species interactions** **Wood Center C & D**	**Invasive species** **Wood Center C & D**	**Invasive species/Comparative Biology** **Wood Center C & D**
Adaptation **Wood Center Ballroom**	**Adaptation** **Wood Center Ballroom**	**Adaptation** **Wood Center Ballroom**	**Adaptation** **Wood Center Ballroom**
Population dynamics **Gruening 306**	**Ernst Mayr award competition** **Gruening 306**	**Ernst Mayr award competition** **Gruening 306**	**Sexual selection** **Gruening 306**
Mutation **Lee H. Salisbury Theatre**	**Ecology and Evolution of Disease** **Lee H. Salisbury Theatre**	**Microbial evolution** **Lee H. Salisbury Theatre**	**Molecular evolution** **Lee H. Salisbury Theatre**

Concurrent Sessions & Symposia Overview: Tuesday June 14

Early Morning	Late Morning	Early Afternoon	Late Afternoon
SSE Symposium: Condition dependence, genetic variance, and the evolution of mating preferences **Charles Davis Concert Hall**	**SSE Symposium**: Condition dependence, genetic variance, and the evolution of mating preferences **Charles Davis Concert Hall**	**SSB Symposium**: Teaching phylogenetics at introductory undergraduate and precollege levels **Charles Davis Concert Hall**	**SSB Symposium**: Teaching phylogenetics at introductory undergraduate and precollege levels **Charles Davis Concert Hall**
Phylogeography **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**	**Phylogeography** **Schaible Auditorium**
Ecological genetics **Wood Center C & D**	**Ecological genetics** **Wood Center C & D**	**Ecological genetics** **Wood Center C & D**	**Ecological genetics** **Wood Center C & D**
Hybridization **Gruening 208**		**Sexual selection** **Gruening 208**	**Sexual selection** **Gruening 208**
Co-evolution **Wood Center Ballroom**	**Co-evolution** **Wood Center Ballroom**	**Co-evolution/** **Host-parasite interactions** **Wood Center Ballroom**	**Host-parasite interactions** **Wood Center Ballroom**
Macroevolution/Paleontology **Gruening 306**	**Macroevolution/Paleontology** **Gruening 306**	**Conservation biology** **Gruening 306**	**Conservation biology** **Gruening 306**
Molecular evolution **Lee H. Salisbury Theatre**	**Molecular evolution** **Lee H. Salisbury Theatre**	**Molecular evolution** **Lee H. Salisbury Theatre**	**Molecular evolution** **Lee H. Salisbury Theatre**

WORKSHOPS AND SPECIAL NOON MEETINGS

EDITORIAL BOARD LUNCHEONS

SSB ***Systematic Biology*** editorial board	Sat. June 11	IARC 501
SSE ***Evolution*** editorial board	Sat. June 11	IARC 401
ASN ***American Naturalist*** editorial board	Mon. June 13	Butrovich 109

SATURDAY 11 JUNE 12:00 – 1:30 PM: WOOD CENTER E & F

BETTER TOOLS FOR THE SYSTEMATICS OF TOMORROW: PRESERVING AND RELATING MATERIALS AND INFORMATION
Organized by Angelique Corthals (American Museum Natural History) and Gordon Jarrell (University of Alaska Museum)

Topics of this workshop will cover:

1. Materials: Keeping tissues and DNA undamaged.
    - Research in DNA degradation timing
    - LN^2 vs. mechanical freezers: Cost-effectiveness and scale
    - Protocols for the extraction of high grade DNA from degraded tissues
    - Non-destructive protocols to extract DNA
    - Preserving tissue in the field and lab (frozen, buffers, DNA paper, etc.)
2. Information: Data distribution and sharing.
    - Linking GenBank accessions to museum vouchers
    - The American Museum of Natural History tissue database
    - How to build a database cheaply and in the most efficient manner
    - Global Biodiversity Information Facility, data standards, and international networking efforts

SUNDAY 12 JUNE 12:00 – 1:30 PM: WOOD CENTER E & F

FINDING A JOB IN ACADEMIC BIOLOGY
Organized by Daniel Promislow (Univ. Georgia) and Lorne Wolfe (Georgia Southern Univ.)

This workshop will provide a useful how-to guide for your academic job search. The presentation will last about an hour, and will be followed by an open Q&A. All graduate students and post-docs are welcome to attend. **A free lunch will be provided by SSE to those who signed up ahead of time.**

A recent study of 1,300 doctoral programs by the National Association of Graduate and Professional Students revealed that >60% of PhD students are unsatisfied with certain non-research aspects of their education. The workshop will address three main issues related to the job search.

1) Options in the Job Market - Students in top-tier research schools (e.g., UCSB) are not really exposed to the different types of academic positions that exist (e.g., liberal arts schools, schools where the Master's is the terminal degree). Isn't it interesting that after approximately 15 years of university training, newly-minted PhDs do not really know the details of the different types of jobs available?

2) The Job Description - What exactly IS the job of an assistant professor? Graduate students are likely aware of the research their advisor does, but what about juggling the demands of teaching and service (i.e., administration). How does the job description vary among the different types of schools mentioned above?

3) The Application & Interview Process - So you have your PhD, but just how do you go about putting together a compelling application packet? How do you interview persuasively? How does the job seminar differ from a regular conference or departmental talk? There ARE simple answers to all of these questions.

SUNDAY 12 JUNE 12:00 – 1:30 PM: LOLA TILLY UPPER DECK LOUNGE

ASN BUSINESS MEETING

Organized by Judith Bronstein

SUNDAY 12 JUNE 12:00 – 1:30 PM: WOOD CENTER C & D

NATIONAL EVOLUTIONARY SYNTHESIS 'TOWN MEETING'

Organized by Cliff Cunningham (National Evolutionary Synthesis Center)

After many years of planning by our scientific community and working closely with NSF, NESCent (www.nescent.org) is finally a reality! Director Cliff Cunningham will begin the town meeting with an overview of NESCent's current vision, priorities and activities. Most important will be the ensuing discussion of how NESCent can best meet the needs of our community.

MONDAY 13 JUNE 12:00 – 1:30 PM: WOOD CENTER C & D

NATIONAL SCIENCE FOUNDATION - FUNDING OPPORTUNITIES

Organized by Mark Courtney (National Science Foundation)

Program officers will discuss NSF funding opportunities at undergraduate, graduate, postdoctoral, and faculty stages. Topics will include Research Experiences for Undergraduates, Undergraduate Mentoring in Environmental Biology, Graduate Research Fellowships, Doctoral Dissertation Improvement Grants, Research Experiences for Teachers, Postdoctoral Research Fellowships, CAREER grants, Research at Undergraduate Institutions, Research Opportunity Awards, Opportunities for Promoting Understanding through Synthesis (OPUS), opportunities for underrepresented groups, and support through traditional faculty research grants. Brief descriptions of these and other opportunities and advice on writing proposals will be followed by a question and answer session.

MONDAY 13 JUNE 12:00 – 1:30 PM: WOOD CENTER E & F

EVOBEAKER TEACHING WORKSHOP

Organized by SimBiotic Software

This session will present a new NSF-funded computer program called EvoBeaker designed to teach evolutionary biology through simulated experiments in introductory through upper-level classes. By far the most sophisticated program ever made for teaching evolution, EvoBeaker is modeled on our popular EcoBeaker software and has labs on both micro and macro-evolutionary concepts with a wide range of examples.

This session should be of interest to anyone who is teaching introductory biology, non-majors biology, or any undergraduate evolutionary biology course. The authors will demo several labs and have samples for participants. Bring your laptop. Lunch will be provided for the first 50 who sign up (walk-ins welcome too, but we won't have extra lunches).

MONDAY 13 JUNE 5:00 – 7:00 PM: ALASKA SALMON BAKE (BY SHUTTLE)

UNDERGRADUATE DIVERSITY AT SSB/SSE 2005

Organized by Scott Edwards (Museum of Comparative Zoology), Richard Kliman (Cedar Crest College), and Elizabeth Zimmer (Smithsonian Institution)

This year marks the third year of a NSF-sponsored program organized by Scott Edwards, Richard Kliman, and Elizabeth Zimmer to bring a diverse group of undergraduates from around the country and Puerto Rico to the annual SSE/SSB meetings. This year the program received 27 applications and was able to fund 14 students to present posters in a special undergraduate poster area to be held during the regular poster session on Saturday, June 11. In addition, these undergraduates will receive mentoring from graduate students, postdocs and faculty during the meetings. They will also join another undergraduate group organized by Cynthia Penaflor and Keith Crandall, BYU, and will receive career advice and encouragement in a special undergraduate symposium to be held Saturday, June 11 in Natural Science 201.

A final part of the program includes the annual "Diversity Social", which will be held Monday 13 June 5:00 – 7:00 PM at the Alaska Salmon Bake. **Shuttle service to Salmon Bake for the Diversity Social will be available at Wood Center beginning at 4:30 pm on Monday**. All are invited to come and show their support for encouraging diversity and career advancement among undergraduates at SSE/SSB!

The Undergraduate Diversity Pep Talk will take place on Tuesday 14 June at 4:00 PM in Gruening 303.

SSE Diversity group schedule

Saturday, June 11	U/G Symposium	8:00 am – 5:00 pm	Natural Sci 201
Saturday, June 11	U/G Posters	8:00 pm – 10:00 pm	Great Hall
Monday, June 13	Social	5:00 pm – 7:00 pm	Salmon Bake
Tuesday, June 14	U/G Pep talk	4:00 pm	Gruening 303

University Alaska Museum/University Alaska Fairbanks Symposium

Ecotypic variation in the context of global climate change: Revisiting the "rules"

Organized by Link Olson

8:00	**Introduction**	Link Olson. Univ. Alaska Fairbanks, UA Museum, 907 Yukon Drive, Fairbanks, AK 99775. link.olson@uaf.edu
8:10	**Island evolution and climate change: Are there any rules?**	Virginie Millien. Redpath Museum, McGill Univ., Montreal, Quebec H3A 2K6 Canada. virginie.millien@mail.mcgill.ca
8:40	**Bergmann's rule and fecundity selection, with implications on the viability of nearshore populations in a warming ocean**	Tony Wilson. Zoological Museum, Univ. Zürich, Switzerland. tony.wilson@zoolmus.unizh.ch
9:10	**Lessons from the past: Responses of mammals to late Quaternary climate change**	Felisa A. Smith. Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131. fasmith@unm.edu
10:00	**Break**	
10:30	**Body size and local community structure of mammals across time and space: Implications for global climate change**	S. Kathleen Lyons. National Center for Ecological Analysis and Synthesis, Univ. California Santa Barbara, Santa Barbara, CA 93101. lyons@nceas.ucsb.edu
11:10	**Recent changes in body size: The possible effect of climate change**	Yoram Yom-Tov. Dept. Zoology, Tel Aviv Univ., Ramat Aviv 69978, Israel. yomtov@post.tau.ac.il
11:40	**Panel discussion/Q&A**	All authors

Undergraduate Symposium

Empowering the next generation of evolutionary biologists

Organized by Cynthia Penaflor

9:00	**Introduction**	Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. cynthia_penaflor@msn.com
9:15	**Comparing the human and chimp genomes: Pseudogenation in the chimp**	Lee Shoa Long Clarke. Biological Statistics and Computational Biology, Cornell Univ., Ithaca, NY 14853. lc263@cornell.edu
9:30	**Reconstructing the phylogeographic history of the Chilean catfish *Trichomycterus areolatus***	Andree Bennin. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. dre_bennin@byu.edu
9:45	**Prey locating behavior of the common vampire bat (*Desmodus rotundus*)**	Joseph Bahlman. Dept. Wildlife, Fish, and Conservation Biology, UC-Davis, Davis, CA 95615. jwbahlman@ucdavis.edu
10:00	**Small-scale phylogeography of Galapagos lava lizards (Genus *Microlophus*): Patterns of colonization and demographic history**	Rebecca Baum. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. rbaum@email.byu.edu
10:15	**Break**	
10:30	**Phylogeographic patterns of Caribbean wetland species**	Yearim Gutierrez. Dept. Biology, Univ. Puerto Rico, Rio Piedras. yearimg@yahoo.com
10:45	**Using phylogenetics to protect rare plant species of *Astragalus* of the Grand Canyon**	Dan Chappell. Dept. Microbiology and Molecular Biology, Brigham Young Univ., Provo, UT 84602. chappell_daniel@hotmail.com
11:00	**Predicting katydid (Tettigoniidae) and grasshopper (Acrididae) abundance in managed conservation reserve program grasslands: A test of the phylogenetic constraints hypothesis**	Jerod Romine. Biology Discipline, Division of Science, Truman State Univ. Kirksville, MO 63501. d2146@truman.edu
11:15	**Effects of inbreeding on the fecundity and heat tolerance of *Heterorhabditis bacteriophora* and *Steinernema carpocapsae***	John Chaston, Adler Dillman. Dept. Microbiology and Molecular Biology, Brigham Young Univ., Provo, UT 84602. johnnyc@byu.edu
11:30	**Identification of rapidly evolving proteins in the *Peromyscus placenta***	Edward B. Chuong. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093. echuong@ucsd.edu

11:45	**Adaptation of physiochemical properties of competing proteins TNF-a and LTA**	Raymond W. Grams. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. rwg24@email.byu.edu
12:00	**Lunch: Interaction of undergraduates with speakers**	
1:30	**What I wish I knew when I was an undergrad**	Johanna Schmitt, Eric Von-Wettberg. Dept. Ecology and Evolutionary Biology, Brown Univ., Providence, RI 02912. Johanna_Schmitt@brown.edu
2:00	**You are here now what? Tips to succeed… publish or perish**	Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. cynthia_penaflor@msn.com
2:30	**Funding opportunities at the National Science Foundation**	Mark Courtney. National Science Foundation, Arlington, VA. 22230. mcourtne@nsf.gov
3:00	**Break**	
3:15	**IGERT: Computational phylogenetics and applications to biology**	David Hillis. Section of Integrative Biology, Univ. Texas Austin, Austin, TX 78712. dhillis@mail.utexas.edu
3:45	**IGERT: Polar Research – Resilience and adaptation: A route to sustainability in a directionally changing world**	F. Stuart Chapin. Dept. Biology and Wildlife. Univ. Alaska Fairbanks, Fairbanks, AK 99775. terry.chapin@uaf.edu
4:15	**Undergraduate research at the Smithsonian: The opportunity of a lifetime!**	Vicky Funk. Smithsonian Inst., Dept. Botany MRC 166, Washington DC. funkv@si.edu
4:45	**Break**	
5:00	**MORPH, growing the next generation of plant evolutionary developmental biologists: Undergraduate research training grants**	William Friedman. Dept. Ecology and Evolutionary Biology, Univ. Colorado, Boulder, Boulder, CO 80309. ned@colorado.edu
5:30	**Deep Gene: Undergraduate research training grants**	Kirsten Fisher, Brent Mishler. Deep Gene, Dept. Integrative Biology, Univ. California Berkeley, Berkeley, CA 94720. bmishler@calmail.berkeley.edu
6:00	**Concluding remarks**	Cynthia Penaflor. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. cynthia_penaflor@msn.com

University of Alaska Fairbanks/Institute of Arctic Biology Symposium

Population genetics of adaptation to Arctic and alpine environments

Organized by Matt Olson

1:30	**Introduction**	Matthew Olson. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffmso@uaf.edu
1:35	**The diversity of winter thermoregulatory patterns in alpine sciurid rodents: Ecological correlates**	Patricia DeCoursey. Dept. Biological Sciences, Univ. South Carolina, Columbia, SC 29208. dcoursey@biol.sc.edu
2:05	**Avian hemoglobin evolution in the Andes**	Kevin McCracken. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fnkgm@uaf.edu
2:35	**The evolution of polar fish hemoglobin**	Guido di Prisco. Institute of Protein Biochemistry and Enzymology, Consiglio Nazionale delle Ricerche, Via Marconi 10, I-80125 Naples, Italy. diprisco@area.ba.cnr.it
3:05	**Break**	
3:30	**The CBF transcriptional activators, cis-trans functional analyses and the role they play in plant cold acclimation and freezing tolerance**	Eric Stockinger. Dept. Horticulture and Crop Science, Ohio State Univ. /OARDC, Wooster, OH 44691. stockinger.4@osu.edu
4:00	**Evolution of flowering time in *Arabidopsis* along a latitudinal cline**	Johanna Schmitt. Dept. Ecology and Evolutionary Biology, Brown Univ., Providence, RI 02912. Johanna_Schmitt@brown.edu
4:30	**Seasonal adaptation: Evolution of photoperiodic time measurement over latitudinal and altitudinal clines**	William E. Bradshaw, Christina M. Holzapfel. Center For Ecology and Evolutionary Biology, University of Oregon Eugene, Oregon 97403. bradshaw@darkwing.uoregon.edu

SSE Symposium

Insect endosymbionts as targets and agents of evolutionary change: Recent insights and opportunities

Organized by Jennifer Wernegreen and Seth Bordenstein

8:00	**Session welcome: Endosymbiont diversity, lifestyles, and insights from an ant-bacterial partnership**	Jennifer Wernegreen. Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543. jwernegreen@mbl.edu
8:15	**Evolutionary and functional adaptations in the transition from parasitism to mutualism**	Colin Dale. Biology Dept., Univ. Utah, Salt Lake, UT 84112. dale@biology.utah.edu
8:45	**Diverse reproductive alterations caused by the insect endosymbiont *Cardinium***	Martha Hunter. Dept. Entomology, Univ. Arizona, Tucson, AZ 85721. mhunter@ag.arizona.edu
9:15	**The *Wolbachia* genome of *Brugia malayi*: Endosymbiont biology and evolution within a human pathogenic nematode**	Barton Slatko. New England Biolabs, Beverly, MA 01915. DNASEQ@NEB.COM
9:45	**Phage as catalysts of genome change in *Wolbachia***	Seth Bordenstein. Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543. sbordenstein@mbl.edu
10:00	**Break**	
10:30	**Endosymbiotic associations of whiteflies and prokaryotes**	Paul Baumann. Microbiology Section, Univ. California Davis, Davis, CA 95616. pabaumann@ucdavis.edu
11:00	**Endosymbionts and the unstable genetic systems of scale insects**	Benjamin Normark. Dept. Entomology, Univ. Massachusetts, Amherst, MA 01003. bnormark@ent.umass.edu
11:30	**Temperature shapes the costs and benefits of symbioses between aphids and maternally transmitted bacteria**	Jake Russell. Dept.Organismic and Evolutionary Biology, Harvard Univ., Somerville, MA 02144. jrussell@oeb.harvard.edu

ASN/SSE Symposium

American Society of Naturalists Young Investigators' Symposium and Society for the Study of Evolution Dobzhansky Prize Lecture

Organized by David Rand

1:30	**Ecological and evolutionary epidemiology**	Allison Galvani. Division of Epidemiology of Microbial Diseases, Yale Univ., New Haven, CT 06520. alison.galvani@yale.edu
2:00	**Population genetics and evolution of gene expression**	Jeff Townsend. Dept. Molecular and Cell Biology, Univ. Connecticut, Storrs, CT 06269. Townsend.UConn@comcast.net
2:30	**Connections between species diversity and genetic diversity**	Mark Velland. National Center for Ecological Analysis & Synthesis, Univ. California Santa Barbara, Santa Barbara, CA 93101. vellend@nceas.ucsb.edu
3:00	**Break**	
3:30	**Dobzhansky Prize Lecture: Intraspecific competition and evolutionary diversification**	Daniel Bolnick. Section Integrative Biology, Univ. Texas Austin, Austin, TX 78712. danbolnick@mail.utexas.edu

Charles Davis Concert Hall

SSB Symposium

Genome analysis and molecular systematics of retroelements

Organized by Andrew M. Shedlock

8:00	**Mobile elements and primate genomic diversity**	Mark Batzer. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. mbatzer@lsu.edu
8:20	**The SINE method: History, development and future**	Norihiro Okada. Dept. Biological Sciences, Tokyo Inst. Technology, Tokyo, Japan. nokada@bio.titech.ac.jp
8:40	**Evolutionary history of SINE retroposons in plants**	Jean-Marc Deragon. Univ. Blaise Pascal Clermont-Ferrand II, Aubiere Cedex, France. J-MARC.DERAGON@UNIV-BPCLERMONT.FR
9:00	**Evolutionary genomics of chromoviruses in eukaryotes**	Dusan Kordis. Dept. Biochemistry and Molecular Biology, Josef Stefan Inst., Ljubljana, Slovenia. dusan.kordis@ijs.si
9:20	**Penelope-like elements in eukaryotes: Properties and distribution**	Irina Arkhipova. Dept. Molecular and Cellular Biology, Harvard Univ., Cambridge, MA 02138. arkhipov@fas.harvard.edu
9:40	**The origins and evolution of non-LTR retrotransposons**	Thomas Eickbush. Dept. Biology, Rochester, New York 14627. eick@mail.rochester.edu
10:00	**Break**	
10:30	**Assaulting genomes: Retroelements- the usual "LINE"-up and partners in crime**	Astrid Engel. Dept. Epidemiology, Tulane Univ., School of Public Health and Tropical Medicine, New Orleans, LA 70112. aengel@tulane.edu
10:50	**Retroposition in mammals and evolutionary implications**	Jürgen Schmitz. Inst. Experimental Pathology, Univ. Muenster, Muenster, Germany. jueschm@uni-muenster.de
11:10	**Genome informatics of interspersed repeats**	Arian Smit. Inst. Systems Biology, Seattle, WA 98103. asmit@systemsbiology.org
11:30	**Statistical inference from integrating retroposon insertions and DNA sequences**	Masami Hasegawa. Inst. Statistical Mathematics, Tokyo, Japan. hasegawa@ism.ac.jp
11:50	**Exploring the limits to retroposon insertion analysis**	Andrew Shedlock. Museum of Comparative Zoology, Harvard Univ., Cambridge, MA 02138. shedlock@oeb.harvard.edu

ASN Symposium:

American Society of Naturalists 2005 Vice-Presidential Symposium

Organized by Mark A. McPeek

1:30	**Introduction: The philosophy of integration**	Mark A. McPeek. Dept. Biological Sciences, Dartmouth College, Lebanon, NH 03766. mark.mcpeek@Dartmouth.EDU
1:45	**Integrating ecology with evo-devo to explore evolutionary constraints**	Paul M. Brakefield. Faculty of Mathematics and Natural Sciences, Leiden Univ., 2300 RA Leiden. brakefield@rulsfb.leidenuniv.nl
2:15	**Community assembly rules in non-steady-state systems: The impacts of climatic and socio-economic changes**	F. Stuart Chapin. Dept. Biology and Wildlife. Univ. Alaska Fairbanks, Fairbanks AK 99775. terry.chapin@uaf.edu
2:45	**The sorry state of F2 hybrids: A molecular approach to the evolution of species**	Ron S. Burton. Marine Biology Research Division, Scripps Institution of Oceanography. Univ.California, San Diego, La Jolla, CA 92093. rburton@ucsd.edu
3:15	**Break**	
3:30	**Biological stoichiometry: A chemical bridge between ecosystem ecology and evolutionary biology**	James Elser. School of Life Sciences, Arizona State Univ., Tempe, AZ 85287. j.elser@asu.edu
4:00	**Building damselfly assemblages over the past 10 million years**	Mark A. McPeek. Dept. Biological Sciences, Dartmouth College, Lebanon, NH 03766. mark.mcpeek@Dartmouth.EDU
4:30	**Discussion: Strategies for integrating research**	

Special Symposium

Genetics and development of color pattern

Organized by Sydney Cameron

8:30	**Phylogenetic pattern of mimicry evolution in bumble bees**	Sydney Cameron. Dept. Entomology, Univ. Illinois, Urbana, IL 61801. scameron@life.uiuc.edu
9:00	**Evolution and speciation in mimetic butterflies**	James Mallet. Univ. College London. London, NW1 2HE England. j.mallet@ucl.ac.uk
9:30	**Towards a comparative genomic and developmental framework of mimicry in *Heliconius***	Owen McMillan. Dept. Biology, Univ. Puerto Rico, Rio Piedras. wmcmilla@rrpac.upr.clu.edu
10:00	**Break**	
10:30	**Gene function in the development of butterfly wing patterns**	Antonia Monteiro. Dept. Biological Sciences, 107 Dorsheimer, SUNY Buffalo, Buffalo, NY 14260. monteiro@buffalo.edu
11:00	**Regulation of pigment genes in *Heliconius* wing pattern formation**	Rob Reed. Dept. Biology, Duke Univ., Durham, NC 27708. reed@duke.edu
11:30	**Development and evolution of *Drosophila* melanin patterns**	John True. Dept. Ecology and Evolution, SUNY Stony Brook, Stony Brook, NY 11794. jrtrue@life.bio.sunysb.edu
12:00	**Lunch**	
1:30	**Genetic and molecular analysis of male nuptial color in sticklebacks**	Katie Peichel. Fred Hutchinson Cancer Res. Ctr., Seattle, WA 98109. cpeichel@fhcrc.org
2:00	**The genetics of reptile color evolution at the community level**	Erica Rosenblum. Museum Vertebrate Zoology, Univ. California Berkeley, Berkeley, CA 94720. rosenblum@berkeley.edu
2:30	**Genetic basis of adaptive color patterns: From mice to molecules**	Hopi Hoekstra. Division Biological Sciences, Univ. California San Diego, La Jolla, CA 92122. hoekstra@ucsd.edu
3:00	**Break**	
4:00	**Genetics and ecology of floral color patterning in Chilean *Mimulus***	Arielle Cooley. Dept. Biology, Duke Univ., Durham, NC 27708. amc34@duke.edu

SSE Symposium

Condition dependence, genetic variance, and the evolution of mating preferences

Organized by Howard Rundle and Mark Blows

8:00	**Genetic variance in female condition predicts indirect genetic variance in male sexual display traits**	Donna Petfield, Stephen F. Chenoweth, Howard D. Rundle*, Mark W. Blows. School Integrative Biology, Univ. Queensland, St. Lucia Brisbane, Qld. 4072 Australia. h.rundle@uq.edu.au
8:30	**Merging models of sexual selection**	David Houle, Janna Fierst. Biological Science Dept., Florida State Univ., Tallahassee, FL 32306. dhoule@bio.fsu.edu
9:00	**Genotype x environment interaction, the lek paradox, and the (un)reliability of mating signals**	Michael Greenfield. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. greenfie@ku.edu
9:30	**Good genes, reinforcement, and the evolution of adaptive mate choice**	Mark Kirkpatrick. Section of Integrative Biology, Univ. Texas Austin, Austin, TX 78712. kirkp@mail.utexas.edu
10:00	**Break**	
10:30	**Genetic versus phenotypic condition dependence in birds**	Ian F. P. Owens. Imperial College, Ascot, Berkshire, SL5 7PY UK. i.owens@imperial.ac.uk
11:00	**Sexual conflict and condition dependence**	Locke Rowe. Dept. Zoology, Univ. Toronto, Toronto, Ontario, Canada. M5S 3G5. lrowe@zoo.utoronto.ca
11:30	**Multivariate quantitative genetics and the lek paradox**	Mark W. Blows*, Stephen F. Chenoweth, Emma Hine. School Integrative Biology Univ. Queensland, St. LuciaBrisbane, Qld. 4072 Australia. m.blows@uq.edu.au

SSB/SSE Education Committee Symposium

Teaching phylogenetics at introductory undergraduate and precollege levels

Organized by David Baum and Sam Donovan

1:30	**The challenge of teaching tree-thinking: Major misconceptions and their remedies**	David A. Baum. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. dbaum@wisc.edu
2:00	**The advantages of using phylogenetic trees in biology teaching**	Susan Offner. Lexington High School, Massachusetts. soffner@sch.ci.lexington.ma.us
2:30	**Simulation-based tutorials for teaching tree thinking**	Jon C. Herron. Dept. Zoology, Univ. Washington, Seattle, WA 98195. herronjc@u.washington.edu
3:00	**Break**	
3:30	**Reading topologies: A study of students' understanding of relationships displayed in trees**	Samuel S. Donovan. School of Education, Univ. Pittsburgh, Pittsburgh, PA 15260. sdonovan+@pitt.edu
4:00	**Lessons from the tree of life: The use of language in teaching phylogenetics**	Kirsten Fisher. Dept. Integrative Biology, Univ. California Berkeley, Berkeley, CA 94720. kirstenj@socrates.berkeley.edu
4:15	**Using trees to teach biodiversity**	Manda Clair Jost. Integrative Biology, Patterson Labs, Univ. Texas Austin, Austin, TX 78712. mandaclair@mail.utexas.edu
4:30	**Using phylogenies as a framework for ecology and biogeography**	Michael J. Donoghue. Dept. Ecology and Evolutionary Biology, Yale Univ., New Haven, CT 06511. Michael.Donoghue@Yale.edu

SATURDAY 8:00 – 10:00 Population genetics — Schaible Auditorium

8:00	**High levels of genetic differentiation are detected within island populations in two sympatric *Rhizopogon* species**	*	Lisa C. Grubisha, Thomas D. Bruns. Dept. Plant and Microbial Biology, Univ. California, Berkeley, CA 94720. grubishl@nature.berkeley.edu
8:15	**Signature of a selective sweep in *Arabidopsis thaliana***		Richard C. Moore, Philip Awadala, Michael Purugganan. N.C. State Univ., Raleigh, NC, 27695. rcmoore@unity.ncsu.edu
8:30	**Evolutionary analysis of highly polymorphic genes in *Arabidopsis thaliana*: A hunt for balanced polymorphisms**	*	Jennifer M. Cork, Michael D. Purugganan. North Carolina State Univ., Raleigh, NC 27603. jmreinin@unity.ncsu.edu
8:45	**Estimates of historic levels of gene flow and times of divergence among northern foxtail pine populations**	*	Andrew J. Eckert, Benjamin D. Hall. Dept. Biology, Univ. Washington, Seattle, WA 98195. aje2@u.washington.edu
9:00	**Domestication and the distribution of genetic variation in the Mesoamerican fruit tree, *Spondias purpurea***		Allison J. Miller, Barbara A. Schaal. Univ. Colorado Museum, Univ. Colorado, Boulder, CO, 80309. Allison.J.Miller@colorado.edu
9:15	**Quantitative and molecular arquitecture of Spanish Cedar (*Cedrela odorata*) and Mahogany (*Swietenia macrophylla*)**		Carlos Navarro, Stephen Cavers. Tropical Agricultural Research and Higher Education Centre.CATIE 7170 Turrialba Costa Rica. cnavarro@catie.ac.cr
9:30	**Colonization genetics of an animal-dispersed plant at Mount St. Helens, Washington**	*	Suann Yang, Michael S. Webster, John G. Bishop. Washington State Univ., PO Box 644236, Pullman, WA 99164. syang1@wsu.edu
9:45	**Consequences of range peripheries: Genetic and phenotypic variation in Sitka spruce**	*	Makiko Mimura, Sally N. Aitken. 3041-2424 Main Mall, Vancouver, BC, V6T 1Z4, Canada. mimura@interchange.ubc.ca

SATURDAY 8:00 – 10:00 Development and evolution — Wood Center C & D

8:00		
8:15	**Evolutionary rates of gain and loss of gene expression domains**	Todd H. Oakley, Bjorn Ostman. Univ. California-Santa Barbara. oakley@lifesci.ucsb.edu
8:30	**Changes in development underlying bony armor loss in Alaskan threespine stickleback**	Mark Currey, Angel Amores, Charles B. Kimmel, John H. Postlethwait, William A. Cresko. Center for Ecology and Evolutionary Biology, Univ. Oregon, Eugene, OR 97403. wcresko@darkwing.uoregon.edu
8:45	**Comparative gene expression of zygotic and maternal-effect genes involved in sex differentiation in TSD and GSD turtles**	Nicole Valenzuela, Andrea R. LeClere, Barbara Kagima. Dept. Ecology, Evolution, Organismal Biology, Iowa State Univ., Ames, IA 50011. nvalenzu@iastate.edu

* student presenter

9:00	**Development and evolution of lateral plate position in threespine stickleback**		Michael A. Bell. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794-5245, USA. mabell@life.bio.sunysb.edu
9:15	**Bacterially derived compounds induce choanoflagellate colony formation**	*	Rick Zuzow, Nicole King. Dept. Molecular and Cell Biology, Dept. Integrative Biology, Univ. California, Berkeley. Rzuzow@berkeley.edu
9:30	**Development of abdominal appendages in *Collembola***		Matthew Terry, Lisa Nagy. Univ. Arizona, Tucson, AZ, 85721. matthew_terry@arizona.edu
9:45	**Inferring patterns of morphological integration and modularity of skull shape using morphometrics**	*	Eladio J. Marquez. Univ. Michigan, Museum of Zoology. emarquez@umich.edu

SATURDAY 8:00 – 10:00 Systematics — Wood Center Ballroom

8:00	**A data management framework for the Fungal Tree of Life (AFTOL)**		Frank Kauff, Cymon J. Cox, Francois Lutzoni. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27708. fkauff@duke.edu
8:15	**Evidence for an autochthonous radiation of tropical Pacific birds: Island avifaunas as sources of continental diversity?**		Christopher E. Filardi, Robert G. Moyle. Dept. Ornithology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192. filardi@amnh.org
8:30	**Avian phylogeny: A comparison of supertree and supermatrix methods**	*	Katie E. Davis, Roderic D. M. Page, Nadia Anwar. DEEB, IBLS, Univ. Glasgow, Glasgow, G12 8QQ. k.davis@udcf.gla.ac.uk
8:45	**Multiple gene evidence for expansion of extant penguins out of Antarctica due to global cooling**		Allan J. Baker, Sergio Luiz Pereira, Oliver P. Haddrath, Kerri-Anne Edge. Royal Ontario Museum, Depart Natural History, 100 Queen's Park, Toronto, ON, Canada, M5S 2C6. sergio.pereira@utoronto.ca
9:00	**Polyphyly of a genus of neotropical forest hawks (Accipitridae: *Leucopternis*) based on mitochondrial and nuclear DNA**	*	Heather R.L. Lerner, Matthew C. Klaver, David P. Mindell. Univ. Michigan, Museum of Zoology, Bird Division, 1109 Geddes Rd. Ann Arbor MI 48109-1079. hlerner@umich.edu
9:15	**Phylogenetic history of Old World suboscine birds: How do taxa become pantropical in distribution?**		Robert G. Moyle, R. T. Chesser, Peter Schikler, Joel Cracraft. American Museum of Natural History, New York, NY, 10024. moyle@amnh.org
9:30	**New phylogenies suggest that Enteropneusta is a plausible model for the proximate ancestor of chordates**		Chris B. Cameron. Bamfield Marine Sciences Centre, Bamfield, BC, V0R1B0. jetsam@uvic.ca
9:45	**Comparing morphological and molecular analyses in *Malacothamnus* (Malvaceae)**		Tracey A. Bodo Slotta. 1605 Albrecht Blvd. Fargo ND 58105-5674. slottat@fargo.ars.usda.gov

* student presenter

SATURDAY 8:00 – 10:00 Speciation — Lee H. Salisbury Theatre

8:00	**An intrinsic physiological determinant of range size and genetic structure among congeneric salamanders**		Joseph Bernardo, Ryan J. Ossola, James Spotila, K. A. Crandall. Dept. Biology, College of Charleston, 66 George Street, Charleston, SC 29424. bernardoj@cofc.edu
8:15	**Adaptive loss of an ancient duplicate gene during incipient speciation**		Anthony J. Greenberg, Jennifer R. Moran, Chung-I Wu. Dept of Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. tonyg@uchicago.edu
8:30	**Ecological trade-offs along a depth gradient may increase reproductive isolation between two incipient coral species**		David B. Carlon. Dept. Zoology, Univeristy of Hawaii at Manoa, Honolulu, HI 96822. carlon@hawaii.edu
8:45	**Identifying genomic regions that contribute to incipient speciation in pea aphids**		Sara Via, Joan West. Dept. Biology and Dept. Entomology, Univ. Maryland, College Park, MD 20742. Svia@umd.edu
9:00	**Locally adapted foraging behaviour and chick development in the wedge-tailed shearwater (*Puffinus pacificus*)**	*	Darren R. Peck, Bradley C. Congdon. School of Tropical Biology, James Cook Univ., Cairns, Australia. darren.peck@jcu.edu.au
9:15	**The relationship between population divergence and reproductive isolation among six populations of the annual plant *Diodia teres***	*	Joe Hereford. Florida State Univ., Dept. Biological Science, Tallahassee, FL 32306-1100. hereford@bio.fsu.edu
9:30	**Darwin's corollary to Haldane's rule: Asymmetric postzygotic isolation**		Michael Turelli, Leonie C. Moyle. Section of Evolution and Ecology, Univ. California, Davis, CA 95616. mturelli@ucdavis.edu
9:45	**Extrinsic post-zygotic isolation dramatically broadens conditions for reinforcement speciation**	*	Roman Yukilevich, John R. True. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794-5245. yukilevi@life.bio.sunysb.edu

SATURDAY 8:00 – 10:00 Life history evolution — Gruening 208

8:00	**The biochemical basis of a life history trade-off in a wing-dimorphic cricket**	Tony Zera, Zhangwu Zhao. School of Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. azera1@unlnotes.unl.edu
8:15	**Predator-mediated mortality and comparative demography in the tropical livebearer *Brachyrhaphis rhabdophora*: Which life history traits most affect fitness?**	Jerald B. Johnson. Dept. Integrative Biology, M.L.Bean Life Science Museum, Brigham Young Univ., Provo, UT 84602. jerry.johnson@byu.edu
8:30	**Climatic influences on the evolution of sexual size dimorphism in the chipmunks (*Tamias spp.*)**	Albrecht I. Schulte-Hostedde. Dept. Biology, Laurentian Univ., Sudbury, Ontario, Canada P3E 2C6. aschultehostedde@laurentian.ca
8:45	**Viability cost of reproduction and behavioral compensation in *Gambusia affinis***	Mark C. Belk, Jacob M. Condon. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. mark_belk@byu.edu

* student presenter

9:00	**Foraging determinants of life history strategies in holometabolous insects**	Carol L. Boggs. Center for Conservation Biology, Stanford Univ., Stanford, CA 94305-5020. cboggs@stanford.edu
9:15	**The physiological regulation of simultaneously selected traits: Body size and development time in *Manduca sexta***	Goggy Davidowitz, Derek A. Roff, H. Frederik Nijhout. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. goggy@email.arizona.edu
9:30	**Evolution of benthic development in Sacoglossan gastropods**	Ryan A. Ellingson, Patrick J. Krug. Dept. Biological Sciences, California State Univ., Los Angeles, CA, 90032-8201. pkrug@calstatela.edu
9:45	**Predation favors the evolution of larger size in a Poeciliid**	Alexandra L. Basolo. School of Biological Sciences, Univ. Nebraska-Lincoln. basolo@cricket.unl.edu

SATURDAY 8:00 – 10:00 Gene structure and function — Gruening 306

8:00	**The evolution of tetrodotoxin resistant sodium channels in pufferfishes (Tetraodontiformes: Tetraodontidae)**	Manda Clair Jost, Harold Zakon, David Hillis, Harry Fozzard. Univ. Texas Austin, TX 78712. mandaclair@mail.utexas.edu
8:15	**Parallel patterns of evolution in the genomes and transcriptomes of humans and chimpanzees**	M. Leinweber, H. Franz, G. Weiss, Michael Lachmann, S. Peebo. Max Planck Inst. for evolutionary anthropology, Leipzig Germany. lachmann@eva.mpg.de
8:30	**Brood pouch genomics: Novel gene function associated with male pregnancy in pipefishes and seahorses (Syngnathidae)**	April D. Harlin-Cognato, Eric A. Hoffman, Adam G. Jones. Biology Dept., Texas A&M Univ., College Station, TX 77843. april_harlin-cognato@tamu.edu
8:45	**Evolution of tick CRT introns**	Quentin Q. Fang, Guang Xu. Dept. Biology, Georgia Southern Univ. qfang@GeorgiaSouthern.edu
9:00	**The architecture of the chloroplast trnH-psbA non-coding region in seed plants and the genus *Silene***	Helena Storchova, Matthew S. Olson. Inst. Exp. Botany, Prague, 16500 Czech Rep.; Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. storchova@ueb.cas.cz
9:15	**Micro-evolution of *cis*-acting control of early *Drosophila* development genes: The case of the *fushi tarazu* hox gene's promoter and enhancer sequences**	Mohammed Bakkali, J. F. Y. Brookfield. Inst. Genetics, Univ. Nottingham, Queen's Medical Centre, Nottingham, NG7 2UH, England. M.Bakkali@nottingham.ac.uk
9:30	**Using ESTs to detect large-scale genome duplication events in *Mimulus*' past**	Amy Bouck, John Willis, Todd Vision. Biology Dept, Duke Univ., PO Box 90338, Durham, NC 27708. bouck@duke.edu
9:45	**Evolution of vertebrate genomes: Insights from tiger salamander**	* Jeramiah J Smith, Sri Putta, S. Randal Voss. Dept. Biology, Univ. Kentucky, Lexington, KY, 40506. jjsmit3@uky.edu

* student presenter

SATURDAY 10:30 – 12:00 Population genetics — Schaible Auditorium

10:30 Does seed location within large tree canopy determine where the pollen come from?

Andrea R Pluess, Frank Davis, Brian Dolan, Kurt Merg, Jeanette Papp, Peter Smouse, Victoria Sork. Dept. Ecology and Evolutionary Biology, Univ. California Los Angeles, Los Angeles, CA 90095. apluss@eeb.ucla.edu

10:45 Living in an agrosystem: A population genetic approach using weed beets as a case study

Jean-François Arnaud, Stéphane Fénart, Mathilde Cordellier, Joël Cuguen. Laboratoire GEPV, UMR CNRS 8016, Université de Lille 1, France. jean-francois.arnaud@univ-lille1.fr

11:00 The population genomics of rice and its wild ancestor

Ana L. Caicedo, Michael D. Purugganan. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. ana_caicedo@ncsu.edu

11:15 The role of recombination in a highly-selfing species

Peter L. Morrell, Donna M. Toleno, Karen E. Lundy, Michael T. Clegg. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92697. pmorrell@uci.edu

11:30 The role of coastal topography and circulation patterns in structuring populations of the broadcast spawner *Fucus*

* Jessica F. Muhlin, Susan H. Brawley. School of Marine Sciences, Univ. Maine, Orono, ME 04469. Jessica_Muhlin@umit.maine.edu

11:45 Patterns of chloroplast diversity in wild and cultivated sunflower using cpSSRs

* David M. Wills, Catherine H. Pashley, John M. Burke. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. david.wills@vanderbilt.edu

SATURDAY 10:30 – 12:00 Development and evolution — Wood Center C & D

10:30 Molecular and morphological evolution in the Asteraceae

Mark A Chapman, John M Burke. Vanderbilt Univ., Dept. Biological Sciences, VU Station B 351634, Nashville, TN 37235. mark.a.chapman@vanderbilt.edu

10:45 Insulin, developmental plasticity and the evolution of size and shape in *Drosophila*

Alexander W. Shingleton, Jayatri Das, Lucio Vinicius, David L. Stern. Princeton Univ., Princeton, NJ 08540. ashingle@princeton.edu

11:00 Population structure underlying a developmental trait in Neotropical *Drosophila*

Erin Penton, Daniela DeToni, Marlucia Martins, Neil Lobo, Hope Hollocher. Dept. Biological Sciences, Univ. Notre Dame, Notre Dame, IN 46556. hope.hollocher.1@nd.edu

11:15 Genetic investigation of the rapid evolution of ovariole number in the *melanogaster* species subgroup

Virginie Orgogozo, David Stern. Princeton Univ., Dept. Ecology and Evolutionary Biology, Princeton, NJ 08544. vorgogoz@princeton.edu

* student presenter

11:30	**Cis-regulatory variation and the evolution of eggshell patterning in *Drosophila***	Lisa M. Goering, Greg Gibson. North Carolina State Univ., Raleigh, NC 27695. lmgoerin@ncsu.edu
11:45	**Hsp90 and the quantitative variation of wing shape in *Drosophila melanogaster***	Vincent Debat, Claire C. Milton, Suzannah Rutherford, Christian Peter Klingenberg, Ary A. Hoffmann. Faculty of Life Sciences, Univ. Manchester, Lancashire, UK M13 9PT. vincent.debat@manchester.ac.uk

SATURDAY 10:30 – 12:00 Systematics — Wood Center Ballroom

10:30	**Systematics and historical biogeography of Middle American and Greater Antillean Cichlidae**	* Prosanta Chakrabarty. Univ. Michigan Museum of Zoology, Fish Division, 1109 Geddes Ave., Ann Arbor, MI 48109. pchakrab@umich.edu
10:45	**The evolution of insect agriculturalists: Molecular phylogenetics of fungus-growing ants**	Sean G. Brady, Ted R. Schultz. Dept. Entomology, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560. brady.sean@nmnh.si.edu
11:00	**Nested radiations: An emerging view of ant phylogeny**	Philip S. Ward, Sean G. Brady, Ted R. Schultz, Brian L. Fisher. Dept. Entomology, Univ. California, Davis, CA 95616, USA. psward@ucdavis.edu
11:15	**Phylogenetics of microgastrine wasps based on eight genes**	Jonathan C. Banks, James B. Whitfield. Dept. Entomology, Univ. Illinois, Urbana Champaign, IL 61801. jbanks@life.uiuc.edu
11:30	**Data congruence in Euncida (Annelida) using a Partition Addition Bootstrap Alteration (PABA) approach**	Torsten H. Struck, Kenneth M. Halanych. 101 Life Science Bld, Biology Dept, Auburn Univ, Al 36849. ken@auburn.edu
11:45	**Molecular and morphological phylogenetics of higher flies (Diptera, Cyclorrhapha)**	Jeffery H. Skevington, J.M. Cumming, J.K. Moulton, B.M. Wiegmann, B.J. Sinclair, B. Cassel. Agriculture and Agri-Food Canada, Ottawa, ON, K1A 0C6, Canada. skevingtonj@agr.gc.ca

SATURDAY 10:30 – 12:00 Speciation — Lee H. Salisbury Theatre

10:30	**Speciation and ecological divergence in the Lake Tanganyikan cichlid tribe, Lamprologini**	Julia J. Day. Imperial College London. julia.day@imperial.ac.uk
10:45	**Species pairs of threespine sticklebacks in the Bering glacier region**	* Heidi Weigner, Frank A. von Hippel. Dept. Biology, Univ. Alaska Anchorage, Anchorage, AK 99508. anhlw@uaa.alaska.edu
11:00	**Maintenance of diversity in a polymorphic cichlid**	Brook O. Swanson. Univ. California, Riverside, CA 92521. Brook.Swanson@ucr.edu
11:15	**Evolution of post-zygotic isolation in Centrarchid fishes**	Daniel Bolnick, Thomas Near. Section of Integrative Biology, Univ. Texas Austin, One Univ. Station C0930, Austin TX 78712. danbolnick@mail.utexas.edu

* student presenter

11:30	**Morphological divergence of endemic fishes of Lake Waccamaw, North Carolina**	*	Trevor J. Krabbenhoft, Michael L. Collyer, Joseph M. Quattro. Dept. Biological Sciences, Univ. South Carolina, Columbia SC 29208. Krabbenhoft@biol.sc.edu
11:45	**Microarray analysis of reproductive isolation in *Xenopus* (Amphibia: Anura)**	*	John H. Malone, Pawel Michalak. Dept. Biology, Univ. Texas-Arlington. smilisca@uta.edu

SATURDAY 10:30 – 12:00 Life history evolution — Gruening 208

10:30	**Does parental partnership status affect human population sex ratios at birth?**		Karen E. Norberg. Washington Univ. School of Medicine, St. Louis, MO 63110. norberg@olin.wustl.edu
10:45	**A quantitative analysis of resource allocation to eproduction and soma in *Drosophila***		Kyung-Jin Min, Marc Tatar, Meghan Hogan, Diane M. O'Brien. Box G-W, Brown Univ., Providence, RI 02912. Kyung-Jin_Min@brown.edu
11:00	**The contribution of yeast nutrition to somatic maintenance and reproduction in fully fed and yeast-restricted *Drosophila***	*	Diane M. O'Brien, Kyung-Jin Min, Marc Tatar. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffdo@uaf.edu
11:15	**The rate of aging in domestic mammals, as compared to their recent ancestors in the wild and in the zoo: Can domestic animals serve as a model for aging?**	*	Alex Scheuerlein, Jutta Gampe, Robert E. Ricklefs. Dept. Biology, Univ. Missouri - St Louis. scheuerlein@umsl.edu
11:30	**Male nest guarding and the evolution of parental care in darters (*Etheostoma*: Percidae)**		Jason H. Knouft. Univ. Colorado Museum and Dept. Ecology and Evolutionary Biology, Univ. Colorado, Boulder, CO 80309. knouft@colorado.edu
11:45	**Origin of life history variation in northern form dolly varden *Salvelinus malma***	*	Penny Crane, Fred DeCicco, John Wenburg. USFWS, 1011 E. Tudor Road, Anchorage, AK 99503. penelope_crane@fws.gov

SATURDAY 10:30 – 12:00 Genomics/proteomics — Gruening 306

10:30	**Evolution of insect metamorphosis: A microarray-based study of larval and adult gene expression in a social insect**		Michael A. D. Goodisman, Jun Isoe, Diana E. Wheeler, Michael A. Wells. Georgia Inst. Technology, Atlanta, GA 30332. michael.goodisman@biology.gatech.edu
10:45	**Genomic analysis of caste differentiation in yellowjacket wasps**		Eric A. Hoffman, Michael A. D. Goodisman. Georgia Tech., Atlanta, GA 30032. eric.hoffman@biology.gatech.edu
11:00	**Oscillating evolution of a mammalian locus with overlapping reading frames: An XL-alpha-s/ALEX relay**	*	Anton Nekrutenko, Samir Wadhawan, Paula Goetting-Minesky, Kateryna Makova. Center for Comparative Genomics and Bioinformatics, Penn State, Univ. Park, PA 16802. aun1@psu.edu

* student presenter

11:15	**Reptilian genomics status and resources**		Travis C. Glenn. Savannah River Ecology Lab, Univ. Georgia and South Carolina, Aiken, SC 29802. Travis.Glenn@sc.edu
11:30	**Origin of the vomeronasal system determined by vomeronasal specific genes**	*	Wendy E. Grus, Jianzhi Zhang. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. wgrus@umich.edu
11:45	**Mitochondrial genomics and the higher level phylogeny of beetles (Coleoptera)**		Stephen L. Cameron, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, UT, 84602. slc236@email.byu.edu

* student presenter

SATURDAY 1:30 – 3:00 Population genetics — Schaible Auditorium

1:30	**Population succession and bloom formation in a planktonic diatom**		Tatiana Rynearson, E. V. Armbrust, C.P. Sarason, M. Kawase. Univ. Washington, School of Oceanography, Box 357940, Seattle, WA 98195. trynear@ocean.washington.edu
1:45	**Population structure of stygobitic isopods in the Pilbara, Western Australia**	*	Cara J. Francis. School of Animal Biology, Univ. Western Australia, Perth, WA 6009. cjfran@student.uwa.edu.au
2:00	**The Poisson pairwise difference method: A general approach for population genetic inference from correlated SNP data**	*	Lan Zhu, Carlos D. Bustamante. 434 Warren Hall, Cornell Univ., Ithaca, NY 14850. lz34@cornell.edu
2:15	**Impacts of ascertainment and selection on the estimation of population structure: Comparing SNPs, STRs and allozymes**		Christian T. Smith, William D. Templin, Lisa W. Seeb. Alaska Dept. Fish and Game, 333 Raspberry Road, Anchorage, AK 99518. christian_smith@fishgame.state.ak.us
2:30	**The power of SNPs for large scale parentage analysis**		Eric C. Anderson. Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, CA 95060. eric.anderson@noaa.gov
2:45	**Species divergence parameters: Exploration with a genomic library and different sampling schemes**		Bryan C. Carstens, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. bcarsten@umich.edu

SATURDAY 1:30 – 3:00 Quantitative genetics — Wood Center C & D

1:30	**Circadian organization in the Subarctic**	Ronald J. Tavernier Jr., Keiko Akasofu, Abel Bult-Ito. Alaskan Basic Neurosci. Program, Inst. Arctic Biol., Univ. Alaska Fairbanks, P.O. Box 757000, Fairbanks, AK 99775. ffab@uaf.edu
1:45	**The genetics of thermotolerance in *Drosophila***	Theodore J Morgan, Laura H Duncan, Mohammed U. Naseer, Ergi Özsoy, Trudy F.C. Mackay. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. tjmorgan@unity.ncsu.edu
2:00	**The evolution of evolvability: Dynamics of the G-matrix when the mutational matrix evolves**	Adam G. Jones, Stevan J. Arnold, Reinhard Buerger. Dept. Biology, Texas A&M Univ., College Station, TX 77843. agjones@tamu.edu
2:15	**Results from a multi-regime artificial selection experiment in *Drosophila***	Ashley J.R. Carter, Thomas F. Hansen, David Houle. Florida State Univ., Tallahassee, FL 32306-1100. acarter@bio.fsu.edu
2:30	**Gene expression in the wing discs of *Drosophila melanogaster***	Jason G. Mezey, Nancy Xiong, Ashley J. R. Carter, David Houle, Sergey V. Nuzhdin. Univ. California, Davis. jgmezey@ucdavis.edu

* student presenter

2:45	**Quantitative genetics of plastron shape in slider turtles (*Trachemys scripta*)**	*	Erin M. Myers, Fredric J. Janzen, Dean C. Adams, John K. Tucker. Dept. Ecology, Evolution, and Organismal Biology, Iowa State Univ., Ames, IA 50011. emyers1@iastate.edu

SATURDAY 1:30 – 3:00 Systematics — Wood Center Ballroom

1:30	**Scales and trees: Systematics and phylogeny of *Matsucoccus* (Coccoidea: Margarodidae)**	*	Janie M. Booth, Penelope J. Gullan. Entomology Dept., UC Davis, 1 Shields Ave, Davis, CA 95616. jmbooth@ucdavis.edu
1:45	**Molecular phylogeny of Venus clams: Digging up signs of the Atlantic invasion**	*	Isabella Kappner. Univ. Illinois - Chicago/ Field Museum of Natural History, Chicago, IL 60605. ikappner@fieldmusem.org
2:00	**MtDNA systematics of the Australian fresh water crab genus *Austrothelphusa* (Decapoda: Brachyura: Parathelphusidae)**		David Gopurenko, Peter J.F. Davie. Dept. Forestry and Natural Resources, Purdue Univ., west Lafayette, IN 47906. dgopuren@purdue.edu
2:15	**Phylogeny and host use evolution of buprestid beetles (Coleoptera: Buprestidae)**	*	Amanda M. Evans, Brian D. Farrell. Dept. Organismic and Evolutionary Biology, Harvard Univ., Cambridge, MA 02138. amevans@oeb.harvard.edu
2:30	**Discriminating among tropical Lepidoptera with DNA barcodes**		Mehrdad Hajibabaei, Daniel H. Janzen, John M. Burns, Elpido A. Remigio, Winnie Hallwachs, Paul D. N. Hebert. Dept. Integrative Biology, Univ. Guelph, Guelph, ON Canada N1G2W1. mhajibab@uoguelph.ca
2:45	**The phylogeny of Odonata**		Karl M. Kjer, Frank L. Carle, Michael L. May. Rutgers Univ., Dept. Ecology, Evolution and Natural Resources. Kjer@aesop.rutgers.edu

SATURDAY 1:30 – 3:00 Speciation — Lee H. Salisbury Theatre

1:30			
1:45			
2:00	**Exploring host specificity and species limits of non-pollinating fig wasps**	*	Summer Silvieus, George Weiblen. Univ. Alabama, Dept. Biological Sciences, Tuscaloosa, AL 35487. silv0124@umn.edu
2:15	**Migration in heterogeneous habitats generates genetic covariance between host-plant preference and performance**	*	Patrik Nosil, Bernard Crespi, Cristina Sandoval, Mark Kirkpatrick. Dept. Biosciences, SFU, Burnaby, B.C. Canada, V5A 1S6. pnosila@sfu.ca
2:30	**Pleiotropic effects of the hybrid sterility gene, Odysseus (OdsH), in *Drosophila***	*	Ya-Jen Cheng, Chi-Fa Huang, Chau-Ti Ting. Inst. Molucular and Cellular Biology, National Tsing Hua Univ., Hsinchu 300, Taiwan. d904226@oz.nthu.edu.tw

* student presenter

2:45	**Extraordinary sex ratios and hybrid sterility in stalk-eyed flies**		Sarah J. Christianson, Gerald S. Wilkinson. Dept. Biology, Univ. Maryland College Park, College Park, MD 20742. sjtoll@umd.edu

SATURDAY 1:30 – 3:00 Life history evolution — Gruening 208

1:30	**Poeciliid life history variation along a salinity gradient in coastal marshes**	*	Shannon B. Martin, Paul L. Leberg. Dept. Biology, Univ of Louisiana at Lafayette, P.O. Box 42451, Lafayette, LA 70504. sbm@louisiana.edu
1:45	**Costs and mechanisms of accelerated growth in a damselfly**	*	Caitlin Dmitriew. Dept. Zoology, Univ. Toronto, Toronto, ON M5S3G6. dmitriew@zoo.utoronto.ca
2:00	**Demographic buffering against environmental stochasticity in the long-lived tundra plant *Silene acaulis***		William F. Morris, Daniel F. Doak. Biology Dept., Duke Univ., Durham, NC 27708-0338. wfmorris@duke.edu
2:15	**Limited larval dispersal and minimal adult movement in black rockfish (*Sebastes melanops*): Does it make evolutionary sense?**		Jessica A. Miller. Univ. Oregon Inst. Marine Biology, Charleston, OR. adele@darkwing.uoregon.edu
2:30	**Evolution of poecilogony from planktotrophy: Speciation in the sea slug genus *Alderia***	*	Ryan A. Ellingson, Patrick J. Krug. Dept. Biological Sciences, California State Univ., Los Angeles, CA 90032. ryanellingson@gmail.com
2:45	**Trade-offs of butterfly pupal diapause in the currency of fat reserves and chemical defense**		James A. Fordyce, Chris C. Nice, Arthur M. Shapiro. Univ. Tennessee. jfordyce@utk.edu

SATURDAY 1:30 – 3:00 Genomics/proteomics — Gruening 306

1:30	**Evolution of protein architecture: Structural phylogenomics**		Gustavo Caetano-Anolles, S. Hwang, H.S. Kim, C. Sharpe, S.M. Boca, D. Caetano-Anolles, T. Waddell, J. Mittenthal. Dept. Crop Sciences, Univ. Illinois, Urbana, IL 61801, USA. gca@uiuc.edu
1:45	**Comparative genomics of innate immunity in *Drosophila***	*	Timothy Sackton, Andrew Clark. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY 14850. tbs7@cornell.edu
2:00	**How far does linkage disequilibrium extend in rice, a domesticated selfing species?**		Kristie A. Mather, Ana L. Caicedo, Kenneth M. Olsen, Michael D. Purugganan. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. kamather@ncsu.edu
2:15	**High density of single nucleotide polymorphisms in the Pacific oyster**		Jason P. Curole, Dennis Hedgecock. Dept. Biology, Univ. Southern California, Los Angeles, CA. jcurole@usc.edu
2:30	**Genome-wide gene expression changes and reproductive isolation**		Pawel Michalak, Ivan Lee, Daiju Hoshino, John Malone. Biology Dept., Univ. Texas Arlington, Arlington, TX 76019. michalak@uta.edu
2:45	**A genome-wide examination of *D. simulans*/*D. melanogaster* female hybrid sterility**	*	Heather Eisler, Hope Hollocher. Univ. Notre Dame, 038 Galvin, Notre Dame, IN 46556. heisler@nd.edu

* student presenter

SATURDAY 3:30 – 5:15 Population genetic theory — Schaible Auditorium

3:30	**Co-estimating population growth and migration rates from sequence data using LAMARC**		Eric Rynes, Jon Yamato, Mary K. Kuhner. Dept. Genome Sciences, Univ. Washington, Box 357730, Seattle, WA 98195. erynes@u.washington.edu
3:45	**Bayesian vs. Likelihood approaches to coalescent analysis using LAMARC**		Lucian P. Smith, Eric Rynes, Jon Yamato, Mary Kuhner. Dept. Genome Sciences, Univ. Washington, Seattle, WA 98105. lpsmith@u.washington.edu
4:00	**Polymorphic parameter space for models of frequency-dependent selection**		Hamish G. Spencer, Allan Wilson. Centre for Molecular Ecology and Evolution, Dept. Zoology, Univ. Otago, Dunedin, New Zealand. h.spencer@otago.ac.nz
4:15	**Protein folding stability and the overdispersed molecular clock**		Daniel M. Weinreich, Mark A. DePristo, Dan Hartl. Organismic and Evolutionary Biology, Harvard Univ. dmw@oeb.harvard.edu
4:30	**In silico analysis of disease association mapping strategies using the coalescent with ascertainment and selection**	*	Ying Wang, Bruce Rannala. Genome Center and Section of Evolution and Ecology, Univ. California Davis, USA 95616. ygwang@ucdavis.edu
4:45	**A model of hitchhiking under divergent selection**		Bryan P. Wood, Judith R. Miller. Dept. Mathematics, Georgetown Univ., Washington DC 20057 USA. jrm32@georgetown.edu
5:00	**Gene genealogies when the distribution of offspring number among individuals is highly skewed**		Bjarki Eldon, John Wakeley. Dept. Organismic and Evolutionary Biology, Harvard Univ. wakeley@fas.harvard.edu

SATURDAY 3:30 – 5:00 Quantitative genetics — Wood Center C & D

3:30	**Epistasis in monkeyflowers**		John K. Kelly. EEB, Univ. Kansas, Lawrence KS 66045. jkk@ku.edu
3:45	**Temporal changes in the genetic architecture of *Daphnia pulicaria* in response to sex**	*	Desiree E. Allen, Michael Lynch. Indiana Univ. dallen@bio.indiana.edu
4:00	**Estimating joint relatedness using a Markov Chain Monte Carlo (MCMC) estimator**		Brook Milligan. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico 88003. brook@nmsu.edu
4:15	**Characterizing RMCMC, a Markov chain Monte Carlo (MCMC) joint relatedness estimator**	*	Christine M. Laney, Brook Milligan. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico 88003. chrlaney@nmsu.edu
4:30	**Interactive effects of competition and resource availability on evolutionary potential in *Impatiens capensis***		John Stinchcombe, Johanna Schmitt. Ecology and Evolutionary Biology, Brown University. John_Stinchcombe@brown.edu
4:45			

* student presenter

SATURDAY 3:30 – 5:00 Systematics — Wood Center Ballroom

3:30	**The utility of nuclear DNA intron markers for mammalian systematics**		Conrad A. Matthee, Geeta N. Eick, Amanda Pardini, Terry J. Robinson, Sandi Willows-Munro. Evolutionary Genomics Group, Dept. Botany and Zoology, Stellenbosch Univ., Stellenbosch, South Africa, 7602. cam@sun.ac.za
3:45	**Interordinal phylogenetic relationships of placental mammals based on retroposon insertions**	*	Hidenori Nishihara, Norihiro Okada. Tokyo Inst. Technology, Yokohama, Japan. hnishiha@bio.titech.ac.jp
4:00	**A molecular phylogeny of golden moles (Chrysochloridae) from sub-Saharan Africa**		Sarita Maree, Paulette Bloomer, Gary N. Bronner, Nigel C. Bennett. Mammal Research Inst., Dept. Zoology and Entomology, Univ. Pretoria, Pretoria, 0002, South Africa. smaree@zoology.up.ac.za
4:15	**Evolution of chicken repeat 1 (CR1) elements in penguin genomes**	*	Maiko Watanabe, Masato Nikaido, Tomi T. Tsuda, Koichi Murata, Takanori Kobayashi, David Mindell. Tokyo Inst. Technology, Yokohama, Japan. mwatanab@bio.titech.ac.jp
4:30	**DNA barcoding of North America's Lepidoptera: The story of 5000**	*	Jeremy R. deWaard, Natalia V. Ivanova, Janet C. Topan, Jean-Francois Landry, Paul D.N. Hebert. Biodiversity Inst. Ontario, Univ. Guelph, Guelph, ON N1G 2W1. jdewaard@uoguelph.ca
4:45	**New insight into the phylogeny of Mantodea**	*	Gavin Svenson, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, UT, 84602. svenson@byu.edu

SATURDAY 3:30 – 5:00 Speciation — Lee H. Salisbury Theatre

3:30	**A continuum or reproductive isolation in *D. bipectinata***		Artyom Kopp, Amanda K. Frank, Chen-Siang Ng. Division of Biological Sciences, UCSD, La Jolla, CA 92093-0116. akopp@ucdavis.edu
3:45	**Species-wide variation in a two-locus hybrid sterility system in *Mimulus***	*	Andrea L. Sweigart, John H. Willis. Duke Univ., Biology Dept., Box 90338, Durham, NC 27708. als21@duke.edu
4:00	**Chromosomal inversions and reproductive isolation in the *Drosophila pseudoobscura* group**		Mohamed A. F. Noor, Audrey S. Chang. Biology Dept., Duke Univ., Durham, NC 27708. NOOR@DUKE.EDU
4:15	**Reproductive isolation and speciation in tropical sea urchins**		Laura B. Geyer, Harilaos Lessios, Stephen R. Palumbi. Smithsonian Tropical Research Inst., Apartado 2072 Balboa Ancon, Republica de Panama. geyerl@si.edu
4:30	**Niche models and speciation mechanisms; examples from anurans**	*	Guinevere O. U. Wogan. Univ. California, Berkeley. gwogan@berkeley.edu

* student presenter

4:45	**Relative abundance and the reinforcement of male mating preference in a beetle hybrid zone**	Merrill A. Peterson, B. Honchak, S. Locke, T. Beeman, J. Mendoza, J. Green, K. Buckingham, M.A. White, K. Monsen. Biology Dept., Western Washington Univ., Bellingham, WA 98225. peterson@biol.wwu.edu

SATURDAY 3:30 – 5:00 Inbreeding — Gruening 208

3:30	**From inbreeding to inbreeding depression: A genomic perspective**	* Julien Ayroles, Kim Hughes, Kevin Rowe, Sandra Rodriguez, Carla Caceres, Ken Paige. School of Integrative Biology, Univ. Illinois, 505 South Goodwin, Urbana, Il 61801. ayroles@uiuc.edu
3:45	**The effects of inbreeding and outbreeding in an annual kelp**	Catherine A. Pfister, J. Timothy Wootton, Handojo Kusumo, Richard Hudson. Dept. Ecology and Evolution, Univ. Chicago, Chicago IL 60637. cpfister@uchicago.edu
4:00	**Persistent effects of inbreeding in *Echinacea angustifolia*: Life history and herbivory**	Helen H. Hangelbroek, Stuart Wagenius, Ruth G. Shaw. Dept. Ecology, Evolution, and Behavior, Univ. Minnesota, 1987 Upper Buford Circle, St Paul, MN 55108, USA. hange001@umn.edu
4:15	**Evolution of self-compatibility increases local drift load in an endemic plant (*Leavenworthia alabamica*)**	* Jeremiah W. Busch. Dept. Biology, Indiana Univ., Bloomington, IN 47405. jbusch@bio.indiana.edu
4:30	**Inbreeding depression variance in structured populations**	Jacob A Moorad. Dept. Biology, Indiana Univ., Bloomington, IN 47405. jmoorad@indiana.edu
4:45	**Links between inbreeding depression and outbreeding depression: A phylogenetic perspective in 14 populations in the *Mimulus moschatus* species alliance**	Matthew L. Carlson. Univ. Alaska Anchorage - Alaska Natural Heritage Program. afmlc2@uaa.alaska.edu

SATURDAY 3:30 – 5:15 Bioinformatics/phyloinformatics — Gruening 306

3:30	**A new one-sample estimator of effective population size based on approximate Bayesian computation**	David A. Tallmon, Mark A. Beaumont, Gordon H. Luikart. Biology Program, Univ. Alaska Southeast, Juneau, AK 99801. david.tallmon@uas.alaska.edu
3:45	**Kicking off the National Evolutionary Synthesis Center**	Cliff W Cunningham. National Evolutionary Synthesis Center. cliff@duke.edu
4:00	**Assessing the accuracy of methods used for detecting adaptive evolution**	* Jennifer Commins, James O. McInerney. Bioinformatics Laboratory, National Univ. Ireland Maynooth, Maynooth, Co. Kildare, Ireland. jennifer.commins@nuim.ie
4:15	**Google, Yahoo, and the end of taxonomy**	Roderic D. M. Page. DEEB, IBLS, Univ. Glasgow. r.page@bio.gla.ac.uk

* student presenter

4:30	**Multiple alignment can bias evolutionary distance estimation**	Michael S. Rosenberg. Evolutionary Functional Genomics, Biodesign Inst., and School of Life Sciences, Arizona St. Univ., Tempe AZ 95287-4501. msr@asu.edu
4:45	**Automated phylogenetic taxonomy: An example in the mushroom-forming fungi**	David S. Hibbett. Biology Dept., Clark Univ., Worcester MA 01610. dhibbett@black.clarku.edu
5:00	**Incorporating gene-specific variation when inferring and evaluating tree topologies from multilocus sequence data.**	Tae-Kun Seo, Hirohisa Kishino, Jeffrey L. Thorne. Professional Programme for Agricultural Bioinformatics, Univ. Tokyo, Japan. seo@iu.a.u-tokyo.ac.jp

* student presenter

SUNDAY 8:00 – 10:00 Population genetics — Schaible Auditorium

8:00	**The influence of habitat isolation and dispersal strategy on the genetic diversity of two insect species**	*	J. Gwen Shlichta, David Hawthorne, Robert Denno, Barbara Thorne. Behavior, Ecology, Evolution and Systematics Program, Dept. Entomology, Univ. Maryland, College Park, MD 20742. bugheart@umd.edu
8:15	**X-linked fitness variation maintained by overdominant selection in *Drosophila***	*	Tim Connallon, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan 48109. tconnal@umich.edu
8:30	**Genetic differentiation between the behavioural races of *Drosophila melanogaster***		Joshua Shapiro, Naoki Osada, Hurng-Yi Wang, Chung-I Wu. Dept. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. hwang@uchicago.edu
8:45	**Inferring combined effects of population history and positive selection on genetic variation in *Drosophila melanogaster***	*	John E. Pool, V. B. DuMont, J. L. Mueller, C. F. Aquadro. Dept. Molecular Biology and Genetics, Cornell Univ., Ithaca, New York, 14853, USA. jep36@cornell.edu
9:00	**Clinal analysis of candidate genes in a thermal QTL of *Drosophila melanogaster***		David M. Rand, Colin Meiklejohn, George Gilchrist. Dept. Ecology and Evolution, Brown Univ., Providence, RI 02912. David_Rand@brown.edu
9:15	**Nucleotide variability on the X chromosome in natural populations of house mice**	*	Tovah Salcedo, Michael W. Nachman. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. tovahs@email.arizona.edu
9:30	**Molecular population genetics of X-linked reproductive genes in *Mus***	*	Jeffrey M. Good, Michael W. Nachman. Dept. Ecol. and Evol. Biology, Univ. Arizona, Tucson, AZ 85721. jgood@email.arizona.edu
9:45	**Reproductive protein evolution within a species: ZP3 sequence variation in *Peromyscus truei***	*	Leslie M. Turner, Hopi E. Hoekstra. Univ. California San Diego, 9500 Gilman Drive MC0116, La Jolla, CA 92093. lturner@biomail.ucsd.edu

SUNDAY 8:00 – 10:00 Animal mating/breeding systems — Gruening 208

8:00		
8:15		
8:30	**A quantitative genetic approach to status dependent selection**	Wade Hazel, Rick Smock. Dept. Biology, DePauw Univ., Greencastle, IN 46135. wnh@depauw.edu
8:45	**Behavioral syndromes in sexually cannibalistic spiders**	J. Chadwick Johnson, Maydianne Andrade. Dept. Life Sciences, Univ. Toronto, Toronto ON m4e 1x2. jcjohnson@utsc.utoronto.ca
9:00	**Growth of territoriality in field-tagged *Tropheops tropheops*, a rock-dwelling cichlid from Lake Malawi**	Jeffrey A. Markert, Matthew Arnegard. Molecular Ecology Research Branch/USEPA, Cincinnati OH 45268. markert@fastmail.fm

* student presenter

9:15	**Selfing in the intertidal sea anemone *Aulactinia incubans***		Tamara M. McGovern. Dauphin Island Sea Labs, 101 Bienville Blvd., Dauphin Island, AL 36528. tmcgovern@disl.org
9:30	**Assortative mating in a bimodal population of Darwin's finches**	*	Sarah K. Huber, Jeffrey Podos. Organismic and Evolutionary Biology, 319 Morrill Science Center, Univ. Massachusetts, Amherst, MA 01003. shuber@bio.umass.edu
9:45	**The evolution of sex determination in ray-finned fishes, and the role of sex chromosomes in sexual selection**	*	Judith E. Mank, John C. Avise. Dept. Genetics, Univ. Georgia, Life Sciences Building, Athens, GA 30602. jemank@uga.edu

SUNDAY 8:00 – 10:00 Phylogenetic theory and methods — Wood Center Ballroom

8:00	**Bayesian concordance analysis and the quantification of reticulate evolution**		David Baum, Bret Larget, Cecile Ane, Antonis Rokas, Stacey Dewitt Smith. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. dbaum@wisc.edu
8:15	**Assessing confidence in supertrees and supermatrices**		Amy Driskell, Gordon Burleigh, Mike Sanderson. Section of Evolution and Ecology, Univ. California, Davis, CA 95616. acdriskell@ucdavis.edu
8:30	**DNA Assembly with Gaps (DAWG): Simulating sequence evolution**	*	Reed A. Cartwright. Dept. Genetics, Univ. Georgia, Athens, GA 30602. rac@uga.edu
8:45	**Identifiability of tree topology for covarion and other models**		John A. Rhodes, Elizabeth S. Allman. Dept. Mathematics, Bates College, Lewiston, ME 04240. jrhodes@bates.edu
9:00	**Testing for different rates of continuous trait evolution in different groups using likelihood**	*	Brian C. O'Meara, Cecile M. Ané, Michael J. Sanderson, Peter C. Wainwright. Center for Population Biology, Univ. California, Davis. bcomeara@ucdavis.edu
9:15	**Assessing current adaptation and phylogenetic inertia as explanations of trait evolution: The need for controlled comparisons**		Steven Orzack, Thomas F. Hansen. Fresh Pond Research Inst., 173 Harvey Street, Cambridge, MA 02140. orzack@freshpond.org
9:30	**Supertree and supermatrix methods compared: A case study with damselflies (Odonata: Zygoptera)**	*	Elizabeth A. Perotti, Nathaniel M. Hallinan, Ryan I. Hill, Simon N. Sponberg, Jann E. Vendetti, Charles L. Nunn. Dept. Integrative Biology, U.C. Berkeley, Berkeley, CA 94720. marinelizard@berkeley.edu
9:45	**Efficient phylogenetic inference using complex substitution models**	*	Ligia Mateiu, Bruce Rannala. Dept. Medical Genetics, Univ. Alberta Edmonton, Alberta T6G 2H7. lmateiu@ualberta.ca

SUNDAY 8:00 – 10:00 Speciation — Lee H. Salisbury Theatre

8:00	**Species richness, phylogeny and the mid-domain effect**		T. Jonathan Davies, Richard Grenyer, John L. Gittleman. Dept. Biology, Univ. Virginia. jdavies@virginia.edu
8:15	**Cladogenesis and range expansion explain latitudinal variation in taxonomic richness**	*	Paul R. Martin, Frances Bonier, Joshua J. Tewksbury. Dept. Biology, Univ. Washington, Seattle, WA 98195-1800. hellmayr@u.washington.edu
8:30	**The expression basis of Haldane's rule**		Xue-Mei Lu, Joshua Shapiro, Chau-Ti Ting, Chung-I Wu. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. xuemeil@uchicago.edu
8:45	**Divergence and reticulation in the Australian Wet Tropics suture zone**		Craig Moritz, Conrad Hoskin, Maria Tonioni, Jason MacKenzie, Gaynor Dolman. MVZ, UC Berkeley, Berkeley, CA 94720. craigm@berkeley.edu
9:00	**Geographic variation of pea aphids on alfalfa and clover in the US**	*	Joan A. West, Sara Via, David Hawthorne. Univ. Maryland. joanwest@wam.umd.edu
9:15	**Pollinator-driven plant speciation for southern African biodiversity hotspots**		Vincent Savolainen, Peter Goldblatt, Timothy G. Barraclough. Jodrell Laboratory, Royal Botanic Gardens, Kew, TW9 3DS London UK. v.savolainen@kew.org
9:30	**Speciation genetics and molecular evolution among sunflower (*Helianthus*) species**		Sheri Church, Sophie Karrenberg, Loren Rieseberg. Dept. Biological Sciences, George Washington Univ., 2023 G St., Washington, DC 20052. schurch@gwu.edu
9:45	**Floral diversification and comparative pollination biology in the Andean clade Iochrominae (Solanaceae)**	*	Stacey DeWitt Smith, David A. Baum. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. sdsmith4@wisc.edu

SUNDAY 8:00 – 10:00 Behavior/social evolution — Gruening 306

8:00	**Games among cannibals: Competition among offspring increases tendency to eat siblings**	*	Jennifer C. Perry, Bernard D. Roitberg. Dept. Zoology, Univ. Toronto. jperry@zoo.utoronto.ca
8:15	**Evolution and behavioral syndromes (aka 'animal personalities')**		Andrew Sih, Alison M. Bell, J. Chad Johnson, Jason V. Watters. Dept. Environmental Science and Policy, Univ. California at Davis, Davis, CA 95616. asih@ucdavis.edu
8:30	**A game theory model of conspecific brood parasitism with parasitism-defense trade-off**		Emily Mullersman, Jennifer Whittington, Lev Yampolsky. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614. yampolsk@etsu.edu
8:45	**Parentage, kinship, and group structure in the white-throated magpie-jay, a cooperative breeder with female helpers**		Elena C. Berg. Center for Tropical Research, Inst. the Environment, Univ. California, Los Angeles, CA 90095-1496. ecberg@ucla.edu

* student presenter

9:00	**Determinants of co-evolution between male signals and female response in field crickets**		Luke Verburgt, J. Willem H. Ferguson. Centre for Environmental Studies, Univ. Pretoria, 0002 Pretoria, South Africa. jwhferguson@zoology.up.ac.za
9:15	**Sex allocation in response to female condition in the Zebra Finch**	*	Valerie S. Foster, Nancy Tyler Burley. 321 Steinhaus Hall, Irvine, CA 92697-2525. vfoster@uci.edu
9:30	**The evolution of altruism: Game theory in multilevel selection and inclusive fitness**		Jeffrey A. Fletcher, Martin Zwick. Dept. Zoology, Univ. British Columbia. fletcher@zoology.ubc.ca
9:45	**Genetic basis for divergence of courtship display in stickleback**		Jun Kitano, Seiichi Mori, Catherine L. Peichel. Fred Hutchinson Cancer Research Center. jkitano@fhcrc.org

SUNDAY 8:00 – 10:00 Arctic and Alpine — Wood Center C & D

8:00	**Temporal and spatial population genetics of Canadian Peregrine Falcons, *Falco peregrinus***	*	Joseph W. Brown, Tim P. Birt, Peter J. van Coeverden de Groot, Gilles Seutin, Peter T. Boag, Vicki L. Friesen. Dept. Biology, Queen's Univ., Kingston, Ontario K7L 3N6. josephwb@umich.edu
8:15	**Cryptic diversity in the North: Diversification and biogeography of a Holarctic tapeworm species complex**	*	Kurt E. Galbreath. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY 14853. keg34@cornell.edu
8:30	**Is polyploidy an instantaneous speciation mechanism?**	*	Holly A. Sabara, Brian C. Husband. Dept. Integrative Biology, Univ. Guelph. sholly@uoguelph.ca
8:45	**Adaptive variation in the deer mouse across a 10,000 ft elevation gradient**	*	Eben J. Gering, Steven Sabotino, Stefanie Grotkin, Jay F. Storz. Dept. Biology, Univ. Nebraska. eben@sfsu.edu
9:00	**Evolution of thermoregulatory characters of *Colias meadii* butterflies in response to global warming**	*	Jeannie A. Stamberger, Ward B. Watt. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305-5020. jeans@stanford.edu
9:15	**Murres of a feather nest together: Morphological and kin clusters in an arctic seabird**	*	Gabriela Ibarguchi, Anthony J. Gaston, Peter T. Boag, Vicki L. Friesen. Dept. Biology, Queen's Univ., Kingston, ON, K7L 3N6. gibarguchi@biology.ca
9:30	**Exploring the population history of gray whales using multi-locus genetic data**	*	S. Elizabeth Alter, Stephen R. Palumbi. Hopkins Marine Station, Stanford Univ., Pacific Grove, CA 93950. sealter@stanford.edu
9:45	**Genomic variation in an isolated sub-arctic island population, the Newfoundland caribou**	*	Corinne D. Wilkerson, Steven M. Carr. Memorial Univ. Newfoundland, Dept. Biology, St. John's, NL A1B 3X9. r34cdw@mun.ca

SUNDAY 10:30 – 12:00 Population genetics — Schaible Auditorium

10:30 Dispersal and demographics of two California abalone species

* Kristen M. Gruenthal, Lauren K. Acheson, Ronald S. Burton. Scripps Institution of Oceanography, Univ. California San Diego, La Jolla, CA 92093-0202. kgruenth@ucsd.edu

10:45 Ecological barriers to gene flow in the Hawaiian spinner dolphin

* Kimberly R. Andrews, Leszek Karczmarski. 2538 The Mall Zoology Dept, Univ. Hawaii, Honolulu, HI 96822. kimandrews@gmail.com

11:00 Population genetics of North American caribou

Matthew Cronin, Michael MacNeil, John C. Patton. School of Natural Resources and Agricultural Sciences, Univ. Alaska Fairbanks, Palmer Res. Ctr, Palmer, AK. croninm@aol.com

11:15 The impact of anthropogenic activity on the genetic structure of the alpine mountain pygmy-possum, *Burramys parvus*

* Paul Mitrovski, Dean Heinze, Linda Broome, Andrew Weeks, Ary Hoffmann. Centre for Environmental Stress and Adaptation Research, Univ. Melbourne, Melbourne, 3010. p.mitrovski@pgrad.unimelb.edu.au

11:30 High-latitude speciation: Population genetics of Snow and McKay's Buntings

* James M. Maley, Kevin Winker. Univ. Alaska Museum, 907 Yukon Dr, Fairbanks, AK 99775. fsjmm1@uaf.edu

11:45 Population structure of Common Eiders

* Sarah A. Sonsthagen, Sandy L. Talbot, Richard B. Lanctot, Kim T. Scribner, Kevin G. McCracken. Inst. Arctic Biology, Dept. Biology and Wildlife, UAF, Fairbanks, AK 99775. ftsas@uaf.edu

SUNDAY 10:30 – 12:00 Plant mating systems — Gruening 208

10:30 Darwinian selection on a selfing locus in *Arabidopsis*

Kentaro K. Shimizu, J.M. Cork, A.L. Caicedo, C.A. Mays, R.C. Moore, K.M. Olsen, S. Ruzsa, G. Coop, C.D. Bustamante, P. Awadalla, M.D. Purugganan. Dept. Genetics, North Carolina State Univ., Raleigh, NC 27695. kshimizu@ncsu.edu

10:45 Specialized bird perch promotes mating success

Spencer C.H. Barrett, Bruce Anderson, William W. Cole. Dept. Botany, Univ. Toronto, Ontario, Canada M5S 3B2. barrett@botany.utoronto.ca

11:00 Correlated evolution of floral and mating-system traits in *Collinsia* (Scrophulariaceae, s.l.)

W. Scott Armbruster, Johanne Maad, Bruce G. Baldwin, Susan Kalisz. Inst. Arctic Biology, Univ. Alaska, Fairbanks, AK 99775. ffwsa@uaf.edu

11:15 Mating system variation in *Pinus sylvestris* L. populations of contrasting size: An empirical and modeling approach

Juan J. Robledo-Arnuncio, Ricardo Alia, Luis Gil. ETSI de Montes, Univ. Politecnica de Madrid, 28040 Madrid, Spain. jrobledo@runbox.com

* student presenter

11:30	**Self-fertilization and the escape from pollinator limitation**	Martin T. Morgan, William G. Wilson, Tiffany M. Knight. School of Biological Sciences, Washington State Univ., Pullman, WA 99164-4236. mmorgan@wsu.edu
11:45	**Ploidy, gender, and self-incompatibility in *Lycium californicum* (Solanaceae)**	Joshua R. Kohn, Kai Yeung, Boris Igic, Anna Savage, Brian Husband, Jill Miller. Univ. California San Diego, La Jolla, CA 92093. jkohn@ucsd.edu

SUNDAY 10:30 – 12:00 Phylogenetic theory and methods/Systematics — Wood Center Ballroom

10:30	**Homology and consistency in the gene content tree of life**	*	E Kurt Lienau, Rob DeSalle, Jeffrey Rosenfeld, Paul J Planet. Dept. Invertebret Zoology, AMNH, 79th Street and Central Park West, New York, NY 10024. ekl@amnh.org
10:45	**The partition homogeneity test is still useful**		Kevin P. Johnson, Jason D. Weckstein. Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. kjohnson@inhs.uiuc.edu
11:00	**Identification of new nuclear DNA markers for phylogenetic reconstruction in angiosperms**	*	Ruth Timme, Anneke Padolina, Weijia Xu, Willard Briggs, Rui Mao, Kai Yan, Danial P. Miranker, Randy Linder. Univ. Texas Austin. retimme@mail.utexas.edu
11:15	**A molecular timescale of Old World Murine biogeography**		Ronald M. Adkins, Scott J. Steppan. Univ. Tennessee Health Science Center, Memphis, TN 38103. radkins1@utmem.edu
11:30	**Sixty-five (new) nuclear protein-coding genes for metazoan phylogeny**		Bernard Ball, Clifford W. Cunningham. Duke Univ., Dept. Biology, Durham, NC 27708. bernie.ball@duke.edu
11:45	**Combining multiple introns to test mtDNA trees and reconstruct sexual dichromatism in Orioles (*Icterus*)**		Kevin E. Omland. UMBC - Univ. Maryland, Baltimore, MD 21250. omland@umbc.edu

SUNDAY 10:30 – 12:00 Speciation — Lee H. Salisbury Theatre

10:30	**The Maynard Smith model of sympatric speciation**		Sergey Gavrilets. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville TN 37996. gavrila@math.utk.edu
10:45	**Reinforcement and the genetics of hybrid incompatibilities**	*	Alan R. Lemmon, Mark Kirkpatrick. 1 Univ. Station #C0930, Univ. Texas, Austin, TX 78712. alemmon@evotutor.org
11:00	**Rapid evolutionary radiation of marine zooplankton in peripatry**		Michael N Dawson. Evolution and Ecology, Univ. California, Davis, CA 95616. mndawson@ucdavis.edu
11:15	**The origin of genetic variation for domestication: The example from rice**		Suhua Shi, Tian Tang, Jianzi Huang, Jian Lu, Jinghong He, Chung-I Wu. Univ. New South Wales. lssssh@zsu.edu.cn

* student presenter

11:30	**A method for detecting genealogical divergence with applications to the species problem**		Michael P. Cummings, Maile C. Neal, Kerry L. Shaw. Dept. Biology, Univ. Maryland, College, Park, MD 20742. kerryshaw@umd.edu
11:45	**Molecular phylogenetic reconstruction of a remarkable neotropical species radiation: Cephaloleia beetles on gingers**	*	Duane D. McKenna, Brian D. Farrell. Harvard Univ. Dept. Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138. dmckenna@oeb.harvard.edu

SUNDAY 10:30 – 12:00 Behavior/social evolution — Gruening 306

10:30	**Cooperative breeding and genetic chimerism in Callitrichids**	*	Corinna N. Ross, Guillermo Orti, Jeffrey A. French. Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. cross@bigred.unl.edu
10:45	**Foraging behaviors of planktonic predators in patchy prey distributions**		Susanne Menden-Deuer. Shannon Point Marine Center, Western Washington Univ., Anacortes, WA 98221. mendens@wwu.edu
11:00	**Causes and consequences of behavioral syndromes in sticklebacks**		Alison M Bell. Environmental and Evolutionary Biology, Univ. Glasgow, Glasgow, UK G12 8QQ. alison.bell@bio.gla.ac.uk
11:15	**Direct and indirect genetic effects on mass, caste, and sex in ants**	*	Timothy A. Linksvayer. Dept. Biology, Indiana Univ., Bloomington, IN 47405. tlinksva@bio.indiana.edu
11:30	**Patterns of courtship song evolution in the *Drosophila saltans* species group**		Jennifer M. Gleason. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. jgleason@ku.edu
11:45	**Masking interference and the evolution of the acoustic communication system of the Amazonian frog *Epipedobates femoralis***		Adolfo Amézquita, Lina Castellanos, Albertina Lima, Luciana Erdtmann, Maria C. da Araujo, Claudia Keller, Walter Hoedl. Dept. Biological Sciences, Univ. Los Andes, AA 4976, Bogota, Colombia. aamezqui@uniandes.edu.co

SUNDAY 10:30 – 12:00 Arctic and Alpine — Wood Center C & D

10:30	**Freeze/thaw/growth experimental evolution in *E. coli***	*	Sean C. Sleight, Richard E. Lenski. Dept. Microbiology and Molecular Genetics, Michigan State Univ., East Lansing, MI 48823. sleight3@msu.edu
10:45	**Additive genetic variation of secondary and primary metabolites in mountain birch**	*	Sanna Haviola, Irma Saloniemi, Vladimir Ossipov, Erkki Haukioja. Section of Ecology, Dept. Biology, Univ. Turku, FIN-20014 Turku, Finland. saklaak@utu.fi
11:00			
11:15			
11:30			
11:45			

* student presenter

SUNDAY 1:30 – 3:00 Population genetics — Schaible Auditorium

1:30	**Salmon, seedbanks, and sleeping genes**		Robin S. Waples. Northwest Fisheries Science Center, Seattle, WA 98112. robin.waples@noaa.gov
1:45	**Incongruence of genetic and morphological variation in the Gila robusta species complex (Teleostei, Cyprinidae), Bill Williams and Gila rivers, Arizona**	*	Michael R. Schwemm, Thomas E. Dowling. School of Life Sciences, Arizona State Univ., Tempe, AZ 85287. mike.schwemm@asu.edu
2:00	**Use of morphology and neutral markers to infer relative roles of selection, history, and gene flow on evolutionary diversification: A test using stickleback**	*	Erika Crispo, Jean-Sébastien Moore, Andrew P. Hendry. McGill Univ., Redpath Museum, Montréal, Québec, H3A 2K6, Canada. erika.crispo@mail.mcgill.ca
2:15	**Effects of local extinction and recolonization on temporal and spatial population-genetic structure of fish**		Joel Trexler, Douglas Creer, Thomas McElroy. Dept. Biological Science, Florida International Univ., Miami, FL 33199. trexlerj@fiu.edu
2:30	**Tracking Gag groupers with genetic fingerprints: Patterns of dispersal and variance in reproductive success**	*	Nathaniel K Jue. Dept. Biological Science, Florida State Univ., Tallahassee, FL 32306. jue@bio.fsu.edu
2:45	**Biogeography and speciation of southwestern Australian frogs**	*	Danielle L. Edwards. School of Animal Biology, Univ. Western Australia, Crawley, WA 6009. dan@cyllene.uwa.edu.au

SUNDAY 1:30 – 3:00 Plant mating systems — Gruening 208

1:30	**Gynodioecy in wild beet: How to maintain non-sterile cytoptypes in populations?**	Mathilde Dufay, Pascal Touzet, Laetitia Fougnies, Joel Cuguen. Dept. Zoology, Univ. Toronto, Toronto, Ontario. mathilde.dufay@univ-lille1.fr
1:45	**Masking deleterious mutations in diploid pollen: A potential mechanism for tetraploid siring success in fireweed**	Brian C. Husband, Paul Kron, Brad Kennedy. Dept. Integrative Biology, Univ. Guelph, Guelph, ON N1G 2W1. bhusband@uoguelph.ca
2:00	**Inbreeding depression contributes to the maintenance of female plants in a gynodioecious species, *Geranium maculatum***	Shu-Mei Chang. Dept. Plant Biology, Univ. Georgia, Athens, GA 30602. chang@plantbio.uga.edu
2:15	**Why does geitonogamous selfing vary markedly among flowers?**	Jeffrey D. Karron, Karsten G. Holmquist, Randall J. Mitchell. Dept. Biological Sciences, Univ. Wisconsin - Milwaukee, Milwaukee, WI 53201. karron@uwm.edu
2:30	**Stress and the female advantage in gynodioecious plants**	Camille M. Barr. Dept. Biology, Univ. Virginia, Charlottesville, VA 22903. cbarr@virginia.edu
2:45	**Evolution of heterostylous reproductive systems in the Sky Islands of the Sonoran Desert**	Stephen G. Weller, Cesar A. Dominguez, Francisco Molina-Freaner, Juan Fornoni, Gretchen LeBuhn. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92697. sgweller@uci.edu

* student presenter

SUNDAY 1:30 – 3:00 Systematics — Wood Center Ballroom

1:30	**Molecular systematics and phylogenetic hypothesis testing in the Great Copper Butterfly species complex**	*	Jeffrey C. Oliver, Arthur M. Shapiro. Interdisciplinary Program in Insect Science, Univ. Arizona, Tucson, AZ 85721. jcoliver@email.arizona.edu
1:45	**Molecular systematics and biogeography of the Neotropical Scorpion *Tityus***		Oris Sanjur, Adolfo Borges, Eldredge Bermingham. STRI, Unit 0948 APO AA 34002-0948. sanjuro@si.edu
2:00	**The geography of repeated rapid radiations in both New and Old World clades of mice and rats**		Scott J. Steppan, Ronald M. Adkins, Jean H. Burns, Christopher Hale, Philip Q. Spinks, Chris Zawadzki. Dept. Biological Science, Florida State Univ., Tallahassee, FL 32306-1100. steppan@bio.fsu.edu
2:15	**A chloroplast genealogy reveals reasons for the far reaching inconsistencies in chloroplast phylogenies of *Hordeum***		Frank R. Blattner, Sabine S. Jakob. IPK Gatersleben, Corrensstr. 3, D-06466 Gatersleben, Germany. blattner@ipk-gatersleben.de
2:30	**Evolutionary relationships of *Dubautia* sect. *Railliardia* (Asteraceae) inferred from multiple low copy nuclear genes**		Linda M. Prince, Elizabeth A. Friar, Jennifer M. Cruse-Sanders. Rancho Santa Ana Botanic Garden, Claremont, CA 91711. linda.prince@cgu.edu
2:45	**Relationships in the n=7 Loeselieae (Polemoniaceae) based on nuclear pistillata, ITS, and chloroplast trnL-F sequences**		Terri L. Weese, Leigh A. Johnson. Dept. Biology, Univ. Utah. weese@biology.utah.edu

SUNDAY 1:30 – 3:00 Speciation — Lee H. Salisbury Theatre

1:30	**Gene expression and the divergence of Hawaiian crickets**		Patrick D. Danley, Kerry L. Shaw. Dept. Biology, Univ. Maryland, College Park MD 20742. pd90@umail.umd.edu
1:45	**Genetics of sexual isolation in *Drosophila mojavensis*: QTL analysis**		William J. Etges, Cassia Cardoso de Olveira, Daniel Ortiz-Barrientos, Mohamed A. F. Noor. Univ. Arkansas. wetges@uark.edu
2:00	**Interactions between conspecific gamete preference and reinforcement**		Patrick D. Lorch, Maria R Servedio. Biology Dept., Univ. North Carolina. plorch@email.unc.edu
2:15	**Maintenance of species boundries in Hawaiian picture-winged flies: Mating success of backcross males**	*	Steve Souder, Tatiane Varys, Donald Price. Dept. Biology, Univ. Hawaii Hilo, Hilo, HI 96720. souder@hawaii.edu
2:30	**Ecology consistently promotes speciation across diverse taxa**		Daniel J. Funk, Patrik Nosil, William Etges. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. daniel.j.funk@vanderbilt.edu
2:45	**Evolution de novo: Genetic and morphological analysis of recent diversification of Galapagos land snails**	*	Christine Parent, Deborah K. Austin, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, Canada. cparent@sfu.ca

* student presenter

SUNDAY 1:30 – 3:00 Evolution of Sex — Gruening 306

1:30	**Testing causal models for the evolution of dioecy in *Echinocereus coccineus* (Cactaceae) using GIS and SEM**	*	Summer A. Scobell, Stewart Schultz, Ted Fleming. 252D Cox Science Center, Univ. Miami, Coral Gables, FL 33124. sscobell@fig.cox.miami.edu
1:45	**X chromosome behavior in asexual aphids**		Alex C. C. Wilson, Christoph Vorburger, Monica Villar, Nancy Moran. Center for Population Biology and Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ. acwilson@email.arizona.edu
2:00	**Evolutionary traction: The cost of adaptation and the maintenance of sexual reproduction**	*	Lilach Hadany, Marcus W. Feldman. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305. lilach@charles.stanford.edu
2:15	**The role of pleiotropy in the maintenance of sex in yeast**	*	Jessica A. Hill, Sarah P. Otto. Dept. Zoology, UBC, Vancouver, BC V6T 1Z4. hill@zoology.ubc.ca
2:30	**Frequency-dependent selection maintains clonal diversity in an asexual mite species**		Andrew R. Weeks, Ary A. Hoffmann. CESAR, Dept. Genetics, The Univ. Melbourne, Melbourne, Victoria 3010, Australia. aweeks@unimelb.edu.au
2:45	**Geographic patterns of sequence variation in sexual and asexual lineages of a freshwater snail**		Steven Johnson. Dept. Biological Sciences, Univ. New Orleans, New Orleans, LA, 70148. sgjohnso@uno.edu

SUNDAY 1:30 – 3:00 Undergraduates — Wood Center C & D

1:30	**Incongruence between chloroplast and nuclear DNA in the phylogeny of *Rubus***	*	Thomas M. Dodson, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101 USA. dodsotm@wku.edu
1:45	**A phylogeographic approach to taxonomy of *Mentha longifolia* (Lamiaceae)**	*	Kate L. Hertweck, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. hertwkl@wku.edu
2:00	**Systematic revision of the Cossulinae (Lepidoptera: Cossidae) of Costa Rica and the discovery of new Lepidopteran glands**	*	Steve Davis, Patricia Gentili-Poole, Charles Mitter. Univ. Maryland, College Park, MD 20742. steved@wam.umd.edu
2:15	**Molecular phylogenetics of armored scale insects (Hemiptera: Diaspididae): Utility of CAD**	*	Jeremy C. Andersen, Geoffrey E. Morse, Benjamin B. Normark. Division of Entomology, Univ. Mass., Amherst, MA 01003. janderse@student.umass.edu
2:30	**What's in a name? Examining the subspecies designation of the Booby Cay Iguana, *Cyclura carinata bartschi***	*	Jason J. Bryan, Glenn Gerber, Mark Welch, Catherine L. Stephen. Dept. Biology, School of Science and Health, Utah Valley State College, Orem, UT 84058. hellbronco@hotmail.com
2:45	**Relative foraging ability as a measure of fitness in *Drosophila***	*	Tina M. Weier, Brian Hollis, David Houle. Florida State Univ., Tallahassee, FL. tweier@gmail.com

* student presenter

SUNDAY 3:30 – 5:00 Population genetics — Schaible Auditorium

3:30 **Experimental demonstration of a role for epistasis in inbreeding depression in flour beetles, *Tribolium castaneum***
Jorge E. Lopez, Michael J. Wade. Biology Dept., Grand Valley State Univ. lopezjor@gvsu.edu

3:45 **The effects of annual population size fluctuations on spatial genetic pattern in the African Wild Silk Moth**
* Wayne Delport, J. Willem H. Ferguson, Paulette Bloomer. Molecular Ecology and Evolution Programme, Dept. Genetics, Univ. Pretoria, Pretoria, 0002, South Africa. wdelport@postino.up.ac.za

4:00 **Extended haplotypes of G6PD*mediterranean* and the evolutionary history of human resistance to malaria in Eurasia**
Matthew A. Saunders, Montgomery Slatkin, Michael F. Hammer, Michael W. Nachman. Ecology and Evolution Dept., Univ. Chicago, Chicago, IL 60637. saunders@uchicago.edu

4:15 **Geographic distance predicts genetic distance in human populations**
* Sohini Ramachandran, Charles C. Roseman, Noah A. Rosenberg, Marcus W. Feldman, L. Luca Cavalli-Sforza. Dept. Biological Sciences, Stanford Univ., Stanford, CA 94305-5020. sohini@stanford.edu

4:30 **Host switch leads to emergence of *Plasmodium vivax* malaria in humans**
J. Mu, Deirdre A. Joy, J. Duan, Y. Huang, J. Carlton, J. Walker, J. Barnwell, P. Beerli, M.A. Charleston, O.G. Pybus, X-Z. Su. NIH / NIAID / Laboratory of Maralia and Vector Research, Rockville, MD 20850. djoy@niaid.nih.gov

4:45 **Asymmetric male and female genetic histories in Native Americans from eastern North America**
* Deborah A. Bolnick. Dept. Anthropology, Univ. Texas-Austin, Austin, TX 78712. deborah.bolnick@mail.utexas.edu

SUNDAY 3:30 – 5:00 Plant mating systems — Gruening 208

3:30 **A novel pollination mechanism of delayed reproductive assurance in *Brassica napus***
* Katrina E. Hayter, J.E. Cresswell. Univ. Exeter, Exeter, UK. k.e.hayter@ex.ac.uk

3:45 **Evolution of male flowers in *Solanum carolinense***
* Mario Vallejo-Marin, Mark D. Rausher. Biology Dept., Box 90338 Duke Univ., Durham NC 27708. mv6@duke.edu

4:00 **Mating system affects quantitative trait evolution in *Mimulus guttatus* (yellow monkeyflower)**
* Liza M. Holeski, John K. Kelly. Ecology and Evolutionary Biology, Univ. Kansas, 1200 Sunnyside Avenue, Lawrence, KS 66045. holeski@ku.edu

4:15 **Pollen limitation by mate scarcity in fragmented *Echinacea* populations: A genetic component of the Allee effect**
Stuart Wagenius. Inst. Plant Conservation, Chicago Botanic Garden, Glencoe IL 60022. swagenius@chicagobotanic.org

* student presenter

4:30	**Comparative reproductive biology of a rare and common arctic *Primula* species pair**		Matthew L. Carlson. Univ. Alaska Anchorage - Alaska Natural Heritage Program. afmlc2@uaa.alaska.edu
4:45			

SUNDAY 3:30 – 5:00 Systematics — Wood Center Ballroom

3:30	**Incongruent gene trees and speciation in *Pluvialis* plovers**	*	Thomas M. Braile, Christin L. Pruett, Kevin Winker. Univ. Alaska Museum, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fttmb@uaf.edu
3:45	**Molecular systematics and host-use evolution in neotropical cucurbit-feeding flies (Tephritidae: *Blepharoneura*)**		Sonja J. Scheffer, Matthew L. Lewis, Marty A. Condon. Bld. 005, Rm. 137, BARC-W, USDA, 10300 Baltimore Av., Beltsville, MD 20705. sscheffe@sel.barc.usda.gov
4:00	**Molecular systematics of rattlesnakes (*Crotalus* and *Sistrurus*)**		Kelly Zamudio, Harry Greene, Jonathan Campbell, David Hillis, Javier Rodriguez-Robles. Cornell Univ., Dept. Ecology and Evolutionary Biology, Ithaca, NY 14853. krz2@cornell.edu
4:15	**Diversification patterns in a species complex of Southeast Asian frogs**	*	Bryan L. Stuart. Field Museum, Dept. Zoology, 1400 S. Lake Shore Drive, Chicago IL 60605-2496 USA. bstuart@fmnh.org
4:30	**An update on the phylogeny of Andrena (Hymenoptera: Andrenidae) using multiple markers**		Leah L. Larkin. Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131. llarkin@unm.edu
4:45	**Systematics and biogeography of oryzomyine rodents (Muroidea: Sigmodontinae) based on phylogenetic analysis of molecular and morphological data**		Marcelo Weksler. American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024. mweksler@amnh.org

SUNDAY 3:30 – 5:00 Speciation — Lee H. Salisbury Theatre

3:30	**Adaptive radiation of gall midges within a single host plant: Nexus of genetic structure, speciation, and ecomorphology**	*	Jeffrey B. Joy, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Vancouver, B.C., V5A 1S6. jbjoy@sfu.ca
3:45	**Speciation by cultivar switching in fungus-growing ants**	*	Anna Himler, Ulrich Mueller. Section of Integrative Biology, Univ. Texas Austin, 1 Univ. Station C0930, Austin, TX 78712. ahimler@mail.utexas.edu
4:00	**How do *Neodiprion* sawflies speciate?**	*	Catherine R. Linnen, Brian D. Farrell. Harvard Univ., Museum of Comparative Zoology, 26 Oxford Street, Cambridge, MA 02138. clinnen@oeb.harvard.edu
4:15	**Phylogenetics and speciation in *Lachnaea* and *Passerina* (Thymelaeaceae) based on plastid and nuclear sequence data**		Michelle van der Bank, Vincent Savolainen. Dept. Botany, Univ. Johannesburg, Kingsway Campus PO BOX 524, Auckland Park 2006, South Africa. mvdb@na.rau.ac.za

* student presenter

4:30	**Timing and pattern of colonization in a radiation of Caribbean crickets (genus *Amphiacusta*)**	*	Elen Oneal, Daniel Otte, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan, MI 48109. eoneal@umich.edu
4:45	**Selection for Dobzhansky-Muller incompatabilities: A novel mechanism for reinforcement?**	*	Maren Friesen. Population Biology Graduate Group, One Shields Ave., UC Davis, Davis CA 95616. mfriesen@ucdavis.edu

SUNDAY 3:30 – 5:00 Evolutionary theory — Gruening 306

3:30	**Distributions of beneficial fitness effects in RNA**	*	Matthew C. Cowperthwaite, J. J. Bull, Lauren Ancel Meyers. Univ. Texas - Austin. mattccowp@mac.com
3:45	**Postulate of an *Externally-Driven Irreversible Transferable Adaptation* (EDITA) mechanism as a second generator of evolutionary change**		Frank H. Laukien. Univ. Amsterdam, Swammerdam Institute for Life Sciences, 1018 WV Amsterdam, Netherlands. frank.laukien@bruker.com
4:00	**Intra-genomic conflict and the evolution of gene silencing**		Paul Schliekelman, John F. McDonald. Dept. Statistics, Univ. Georgia, Athens, GA 30606. pdschlie@stat.uga.edu
4:15	**Population genetics of evolutionary capacitance**		Joanna Masel. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson AZ 85721. masel@u.arizona.edu
4:30	**The evolution of strategy variation: Will an ESS evolve?**		Steven Orzack, Gord Hines. Fresh Pond Research Inst., 173 Harvey Street, Cambridge, MA 02140. orzack@freshpond.org
4:45	**Hamilton's rule in reciprocal altruism and symbiosis**		Jeffrey A. Fletcher, Martin Zwick. Dept. Zoology, Univ. British Columbia. fletcher@zoology.ubc.ca

SUNDAY 3:30 – 5:00 Education — Wood Center C & D

3:30	**A phylogenetics workflow automation framework for education, public outreach, and professional research**	Timothy M. McPhillips. Natural Diversity Discovery Project, 1163 Yarwood Ct., San Jose, CA 95128. tmcphillips@naturaldiversity.org
3:45	**Teaching evolution in public high schools: Do state science standards matter?**	James H. Bandoli. Dept. Biology, Univ. Southern Indiana, Evansville, IN 47712 USA. jhbandol@usi.edu
4:00	**A rigorous method for assessing critical thinking in biology: Why bother, how do we do it, and what do we gain?**	Ahrash N. Bissell, Paula P. Lemons. Duke Univ. ahrashb@duke.edu
4:15		
4:30		
4:45		

* student presenter

MONDAY 8:00 – 10:00 Phylogeography — Schaible Auditorium

8:00	**Consequencesof Paleoclimatic cycles on an Alpine plant-insect association**		Eric G. DeChaine, Andrew P. Martin. Harvard Univ., Dept. OEB, Cambridge, MA 02138. dechaine@fas.harvard.edu
8:15	**Phylogeography and call variation in an Amazonian frog**		W. Chris Funk, David C. Cannatella, Michael J. Ryan, Kathryn E. Boul. Section of Integrative Biology, Univ. Texas, Austin, TX 78712. wcfunk@mail.utexas.edu
8:30	**Multiple gene genealogies reveal sympatric cryptic species in the *Amanita muscaria* species complex**		Jozsef Geml, Gary A. Laursen, Harris C. Nusbaum, D. Lee Taylor. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. jgeml@iab.alaska.edu
8:45	**Tests of phylogeographic and morphological concordance among Panamanian golden frog (*Atelopus*) populations**	*	Corinne L. Richards, L. Lacey Knowles. Univ. Michigan Museum of Zoology, Ann Arbor, MI 48109. clrichar@umich.edu
9:00	**Haplotype diversity in *Pilbarus millsi*, a widespread groundwater species of amphipod from the Pilbara, Western Australia**		Terrie Finston, Mike Johnson, Bill Humphreys, Stefan Eberhard, Stuart Halse. School of Animal Biology, Univ. Western Australia, Crawley, W. A. 6009 Australia. tfinston@cyllene.uwa.edu.au
9:15	**Invasion, extinction, and speciation in Mesoamerica**		Eldredge Bermingham, Anabel Perdices, Ricardo Mallarino. STRI, Unit 0948 APO AA 34002-0948. eb@naos.si.edu
9:30	**Dispersal by rafting: Does distance matter? Patterns in North Atlantic amphipods**	*	Christine M. Henzler, Clifford W. Cunningham. Duke Univ., Durham, NC 27708. cmh20@duke.edu
9:45	**Molecular dating and biogeography: Calibration matters! An example using Crypteroniaceae**	*	Frank Rutschmann, Torsten Eriksson, Kamariah Abu Salim, Elena Conti. Inst. Systematic Botany, Univ. Zurich, Zollikerstrasse 107, CH-8008 Zurich, Switzerland. frank@plant.ch

MONDAY 8:00 – 10:00 Phenotypic plasticity — Gruening 208

8:00			
8:15	**Interactions between predator and diet induced phenotypic changes in body shape**		Frank Johansson. Dept. Ecology and Environmental Science, Umea Univ., Sweden. frank.johansson@emg.umu.se
8:30	**Consequences of phenotypic plasticity in the spadefoot toad *Spea multiplicata***	*	Amber M. Rice. Biology Dept., Univ. North Carolina-Chapel Hill, Chapel Hill, NC 27599. arice@email.unc.edu
8:45	**A multivariate method of model selection for evolutionary data**		Michael L. Collyer, Dean C. Adams. Iowa State Univ., Dept. Statistics, Dept. Ecology, Evolution, and Organismal Biology, Ames, IA 50011. collyer@iastate.edu

* student presenter

9:00	**Phylogenetic analysis of the evolution of hatching plasticity in tropical treefrogs**		Ivan Gomez-Mestre, Karen M. Warkentin, Christopher J. Schneider, John J. Wiens. Dept. Biology, Boston Univ., Boston MA 02215. igmestre@bu.edu
9:15	**Plasticity and integration of melanism in the cabbage white butterfly**	*	Andrew M. Stoehr. Dept. Biology, Univ. California, Riverside, CA 92521. andrew.stoehr@email.ucr.edu
9:30	**Does phenotypic plasticity facilitate evolution?**		Gerdien de Jong. Evolutionary Population Biology, Utrecht Univ., Utrecht, the Netherlands. g.dejong@bio.uu.nl
9:45	**Evolution of a color polyphenism by genetic accommodation**	*	Yuichiro Suzuki, H. Frederik Nijhout. Biology Dept., Duke Univ., Durham, NC 27708. ys16@duke.edu

MONDAY 8:00 – 10:00 Species interactions — Wood Center C & D

8:00	**Ants, agriculture, and antibiotics: Discovery of a new layer of exploitation of the Attine ant-microbe symbiosis**	*	Ainslie E.F. Little, Matias J. Cafaro, Cameron R. Currie. Dept. Bacteriology, Univ. Wisconsin-Madison. alittle@wisc.edu
8:15	**Intrinsic advantages to ecological specialization: Population- and individual-level evidence for neural constraints**	*	Scott P. Egan, Daniel J. Funk. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN, 37206. scott.p.egan@vanderbilt.edu
8:30	**The geographic selection mosaic for red crossbills, Abert's squirrels, and ponderosa pine**	*	Thomas L. Parchman, Craig W. Benkman. Dept. Biology, New Mexico State Univ., Las Cruces, New Mexico, 88003. tparchma@nmsu.edu
8:45	**Diversification of yucca moths and their parasitoids**		David M. Althoff. Dept of Biological Sciences, Univ. Idaho, Moscow, ID 83844. dalthoff@uidaho.edu
9:00	**Do plant mutualists and antagonists exert conflicting natural selection on floral traits?**		Amy L. Parachnowitsch, Christina M. Caruso. Dept. Integrative Biology, Univ. Guelph, Guelph, Ontario N1G 2W3 Canada. carusoc@uoguelph.ca
9:15	**Interactions between boreal forest plants and their pests: How will climate change affect them?**		Christa P.H. Mulder, Bitty Roy. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffcpm2@uaf.edu
9:30	**Quantifying natural selection on floral traits in hummingbird pollinated *Silene virginica*: A multi-year study**		Charles B. Fenster, Richard J. Reynolds, Michele R. Dudash. Dept. Biology, Univ. Maryland, College Park, MD 20742. cfenster@umd.edu
9:45	**Beta diversity in corals: How it changes with gamma diversity, spatial scale, and dispersal limitation across a 10,000 k**		Howard V. Cornell, Ron H. Karlson, Terence P. Hughes. Dept. Environmental Science and Policy, Uni. of California, Davis, Davis, CA 95616. hvcornell@ucdavis.edu

MONDAY 8:00 – 10:00 Adaptation — Wood Center Ballroom

8:00	**The economics of academic publishing: Are for-profit journals fleecing the evolutionary biology community?**		Carl T. Bergstrom, Theodore C. Bergstrom. Dept. Biology, Univ. Washington, Seattle, WA 98195. cbergst@u.washington.edu
8:15	**Evolution and diversity of spider silk materials**		Brook O. Swanson, Cheryl Y. Hayashi, Adam P. Summers. Univ. California, Riverside, CA 92521. Brook.Swanson@ucr.edu
8:30	**The viceroy butterfly is not a Batesian mimic: A chemical mechanism**	*	Kathleen L. Prudic. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. klprudic@email.arizona.edu
8:45	**Comparative analyses of adaptive evolution using OUCH**		Marguerite A. Butler, Aaron A. King. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. mabutler@utk.edu
9:00	**Venom evolution in *Sistrurus* rattlesnakes**		H. Lisle Gibbs, Wayne Rossiter. Dept. EEOB, Ohio State Univ., Columbus, OH 43210-1293. gibbs.128@osu.edu
9:15	**Why does *Arabidopsis halleri* hypperaccumulate zinc? A non-adaptive hypothesis**		Stacy I. Taylor, Mark R. Macnair, Nick Smirnoff. School of Biological and Chemical Sciences, Univ. Exeter, Exeter UK EX4 4PS. S.I.Taylor@ex.ac.uk
9:30	**The role of the maternal environment in the salt tolerance of a locally adapted roadsides plant**		Laura L. Beaton, Susan A. Dudley. Washington Univ., St. Louis, Missouri. beaton@biology2.wustl.edu
9:45	**The evolutionary trajectory of a recently established Alaskan threespine stickleback population**	*	Windsor E. Aguirre, Michael A. Bell. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook, NY 11794. waguirre@life.bio.sunysb.edu

MONDAY 8:00 – 10:00 Population dynamics — Gruening 306

8:00			
8:15	**Species abundance models and patterns in dragonfly communities: effects of fish predators**		Tomas Brodin, Frank Johansson, Göran Englund, Hans Gardfjell. Dept. Ecology and Environmental Science, Umeå Univ., 90187 Umeå, Sweden. tomas.brodin@emg.umu.se
8:30	**Assessing natural variability in Gulf of Alaska populations: Comparisons among taxa, substrates, habitats, and measures**		Ginny L. Eckert. Univ. Alaska, Juneau, AK 99801. ginny.eckert@uas.alaska.edu
8:45	**Woodpecker-mediated seed movement in the California valley oak using a maternal-identity approach**		Delphine Grivet, Peter E. Smouse, Victoria L. Sork. Ecology and Evolutionary Biology Dept., Univ. California Los Angeles, Los Angeles, CA 90024. dgrivet@ucla.edu

* student presenter

9:00	**Linking population ecology and genetics: The influence of density-dependence and environment on *Ne* in an annual plant**	*	Erin K. Espeland. Ecology Graduate Group, UC Davis, Davis CA 95616. ekespeland@ucdavis.edu
9:15	**Evolutionarily stable dispersal distances with emergent pattern-formation and metapopulation dynamics**	*	Curtis A. Smith, William G. Wilson. Dept. Biology, Duke Univ., Durham, NC 27708. curtis.smith@duke.edu
9:30	**Multiple paternity and multiple mating in natural populations of house mice (*Mus domesticus*)**		Matthew D. Dean, Kristin Ardlie, Michael W. Nachman. Ecology and Evolution, Univ. Arizona, Tucson, AZ 85741. mattdean@email.arizona.edu
9:45	**Model communities of non-neutral resources and consumers: Empirical predictions from linearized species interactions**		Will Wilson, Per Lundberg. Biology Dept., Duke Univ., Durham, NC 27708 USA. wgw@duke.edu

MONDAY 8:00 – 10:00 Mutation — Lee H. Salisbury Theatre

8:00	**The nature and diversity of compensatory mutations in the bacteriophage phiX174**	*	Art Poon, Lin Chao. Div. Biological Sciences, Univ. California, San Diego, La Jolla 92122, USA. apoon@biomail.ucsd.edu
8:15	**Radiation-induced untargeted germ line mutations in Japanese medaka (*Oryzias latipes*)**		Olga Tsyusko, T. Glenn, Yi Yi, T. Hinton. Savannah River Ecology Laboratory, Univ. Georgia. tsyusko@srel.edu
8:30	**Strong and weak male mutation bias at different sites in the primate genomes**		Kateryna D. Makova, Svitlana Tyekucheva, Michael Zody, Francesca Chiaromonte, James Taylor. 208 Mueller Lab, Dept. Biology, Penn State Univ., Univ. Park, PA 16802. kdm16@psu.edu
8:45	**Direct estimation of the per nucleotide mutation rate in *Drosophila***		Peter D. Keightley, Steven Macaskill, Mark Dorris, Xulio Maside, Brian Charlesworth. School of Biological Sciences, Univ. Edinburgh, Edinburgh EH9 3JT, UK. peter.keightley@ed.ac.uk
9:00	**Distribution of compensatory mutations within genes**	*	Brad Davis, Art Poon. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T1Z4. davis@zoology.ubc.ca
9:15	**Quantifying mutation parameters in the field using *Arabidopsis thaliana***		Matthew T. Rutter, Charles B. Fenster. Dept. Biology, Univ. Maryland, College Park, MD 20742. rutter@wam.umd.edu
9:30	**Transposons and mutational variance**		Mattieu Begin, Daniel Schoen. McGill Univ., Stewart Biology building, 1205 Dr Penfield, Montreal, Quebec, H3A 1B1, Canada. mattieubegin@hotmail.com
9:45	**Comparative mutational biology of nematodes: G x E and mutational covariance**		Charles F. Baer, Naomi Phillips, Frank Shaw, Dejerianne Ostrow, Thomas Keller, Ashley Boggs, Laura Levy, Dustin Blanton. Dept. Zoology, Univ. Florida, Gainesville, FL 32611. cbaer@zoo.ufl.edu

* student presenter

MONDAY 10:30 – 12:00 Phylogeography — Schaible Auditorium

10:30 Comparative phylogeography of chipmunks and mice in relation to the Quaternary history of eastern deciduous forests

* Kevin C. Rowe, Edward J. Heske, Ken N. Paige. Dept. Animal Biology, Univ. Illinois, Urbana, IL 61801. krowe@uiuc.edu

10:45 Historical demography of the cinereus shrew complex: Effects of Pleistocene glaciations on population dynamics

* Eric Waltari, Joseph A. Cook. Dept. Biological Sciences, Idaho State Univ., Pocatello, ID 83209. walteric@isu.edu

11:00 The effects of differential dispersal on phylogeographic structure among Madagascar's oryzorictine tenrecs

* Kyndall Hildebrandt, Steven M. Goodman, Link E. Olson. Univ. Alaska Museum, 907 Yukon Dr., Fairbanks, AK 99775. fskbh1@uaf.edu

11:15 Ocean channels and distance determine phylogeographic patterns in three widespread Philippine fruit bats

* Trina E. Roberts. Committee on Evolutionary Biology, Univ. Chicago, Chicago, IL 60637. terobert@uchicago.edu

11:30 The geography of evolutionary interactions between wildfire, North American paper birches and Arctic hares

Joseph H. Williams, John P. Bryant, Tom Clausen, Joe Cook, Simon Landhausser, Suzanne Carrier. Dept. Ecology and Evolution, Univ. Tennessee, Knoxville, TN 37996. joewill@utk.edu

11:45 Identifying areas of endemism using parsimony analysis of endemicity and nested clade analysis

* Anthon J Deo, Rob DeSalle. American Museum of Natural History, New York, NY 10024. adeo@nyu.edu

MONDAY 10:30 – 12:00 Phenotypic plasticity — Gruening 208

10:30 Landscape genetics of local adaptation in *Impatiens capensis*: Replicate evolution of forest understory and open habitat

* Eric J. von Wettberg, David L. Remington, Johanna Schmitt. Ecology and Evolution, Brown Univ., Providence, RI 02912 USA. Eric_von_Wettberg@brown.edu

10:45 Are patterns of inbreeding depression and plasticity correlated between micro- and macro-environmental gradients?

Courtney J. Murren, Michele R. Dudash. Dept. Biology, College of Charleston, Charleston SC 29412. murrenc@cofc.edu

11:00 Phenotypic plasticity to nutrients and herbivory in wild populations of *Arabidopsis thaliana*

* Joshua A. Banta, Massimo Pigliucci. Dept. Ecology and Evolution, SUNY - Stony Brook, Stony Brook, NY 11794-5245. jbanta@life.bio.sunysb.edu

11:15 A generalized framework for the analysis of phenotypic change

Dean C. Adams, Michael L. Collyer. Dept. Ecology, Evolution, Organismal Biology, Iowa State Univ., Ames, IA 50011. dcadams@iastate.edu

11:30 The adaptive significance of behavioral and phenotypic plasticity for thermoregulation in pipevine swallowtail larvae

Chris Nice, James A. Fordyce. Texas State Univ. ccnice@txstate.edu

11:45	**Heritable plasticity in *Tribolium castaneum***	Jacob A Moorad, Michael J Wade. Dept. Biology, Indiana Univ., Bloomington, IN 47405. jmoorad@indiana.edu

MONDAY 10:30 – 12:00 Species interaction — Wood Center C & D

10:30	**Bacteria spice it up: Symbiont effects on the mode of aphid reproduction**		Teresa E. Leonardo. Evolutionary Biology and Ecology, Princeton Univ., Princeton NJ 08544. teresal@princeton.edu
10:45	**A test of multi-trophic interaction hypotheses involving mycorrhizae, plants, and herbivores**	*	Alison E. Bennett, James D. Bever. Dept. Biology, Indiana Univ.-Bloomington, Bloomington IN 47405. alibenne@bio.indiana.edu
11:00	**Floral trait evolution in response to pollinator preference**	*	Risa D. Sargent, Sarah P. Otto. Dept. Zoology, Univ. British Columbia, Vancouver, BC, V6T 1Z4. sargent@zoology.ubc.ca
11:15	**Predator and prey space use as an interactive game: Comparing empirical data to alternative models of movement rules**		Barney Luttbeg, John Hammond, Andrew Sih. Dept. Environment Science and Policy, Univ. California, Davis, CA 95616. btluttbeg@ucdavis.edu
11:30	**The role of aspen extrafloral nectaries in plant-insect interactions**		Pat Doak, Diane Wagner. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffpd@uaf.edu
11:45	**Predator-driven evolution in the deep-sea**	*	Alberto Lindner, Stephen D. Cairns, Cliff Cunningham. Biology Dept., Duke Univ., Durham, NC, 27708, USA. alberto.lindner@duke.edu

MONDAY 10:30 – 12:00 Adaptation — Wood Center Ballroom

10:30	**Population differentation at a global scale: Examining adaptation of wild radish through comparisons of *Fst* and *Qst***	*	Heather F. Sahli, Jeffrey K. Conner. Kellogg Biological Station, Michigan State Univ., Hickory Corners, MI 49060. sahlihea@msu.edu
10:45	**Selection on tadpole morphology and swimming performance: An evaluation of the morphology, performance and fitness parad**	*	James B. Johnson, Thomas J. DeWitt, D. Brent Burt. Dept. Wildlife and Fisheries Sciences, Texas A&M Univ. College Station TX 77843-2258. jamesbjohnson@neo.tamu.edu
11:00	**The importance of population origin and environment on clonal and sexual reproduction in the alpine plant *Geum reptans***		Andrea R Pluess, Jürg Stöcklin. Inst. Botany, Univ. Basel, CH 4056 Basel, Switzerland. andrea.pluess@unibas.ch
11:15	**Joint analysis of series of life history traits and its application to multiyear records of *Echinacea angustifolia***		Ruth G. Shaw, Charles J. Geyer, Stuart Wagenius. Dept. Ecology, Evolution and Behavior, Univ. Minnesota, St. Paul 55108. rshaw@superb.ecology.umn.edu

* student presenter

11:30	**Phylogeny and vocal stereotypy in mice: A peromyscine model**	*	Jacqueline R. Miller, Mark D. Engstrom. Dept. Zoology, Univ. Toronto. jmiller@rom.on.ca
11:45	**Demic adaptation and host plant quality as determinants of the distribution of a host-specific gall former**		James R. Ott, Scott P. Egan. Dept. Biology, Texas State Univ.-San Marcos. jimott@txstate.edu

MONDAY 10:30 – 12:00 Ernst Mayr Award — Gruening 306

10:30	**Convergent evolution and divergent selection: Rapid adaptation to novel environments in a community of lizards**	*	Erica Bree Rosenblum. Museum of Vertebrate Zoology, 3101 Valley Life Sciences Building, Univ. California, Berkeley CA 94720-3160. rosenblum@berkeley.edu
10:45	**Using multi-marker analyses to examine causes of paraphyly in the Mallard complex (genus *Anas*)**	*	Ryan J. Harrigan, Michael D. Sorenson. B.U. Dept. Biology, 5 Cummington Street, Boston, MA, 02215. iluvsa@bu.edu
11:00	**Phylogenetic analysis based on a whole-proteome evolution model of protein domain composition**	*	Ivan Iossifov, Andrey Rzhetsky. DBMI, 622 West 168th St. Vanderbilt Clinick, 5th Floor New York, NY 10032. iossifov@dbmi.columbia.edu
11:15	**Investigating protein evolution through an empirical codon model**	*	Carolin Kosiol, Nick Goldman. EMBL - European Bioinformatics Inst. kosiol@ebi.ac.uk
11:30	**Evolutionary rates and the generation-time effect in sporeforming bacteria**	*	Heather Maughan. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, Arizona 85701. hmaughan@u.arizona.edu
11:45	**Chloroplast capture in the Hawaiian silversword alliance**	*	Mitchell E McGlaughlin, Elizabeth Friar. Rancho Santa Ana Botanic Garden, 1500 N College Ave, Claremont, CA 91711. mitchell.mcglaughlin@cgu.edu

MONDAY 10:30 – 12:00 Ecology and evolution of disease — Lee H. Salisbury Theatre

10:30	**N-fixing *Alnus crispa* shows no local adaptation to pathogens, herbivores, or the abiotic environment**		Bitty A. Roy, Christa P.H. Mulder, Julie Stewart. Center for Ecology and Evolutionary Biology, Univ. Oregon, Eugene, OR 97405. bit@darkwing.uoregon.edu
10:45	**Coevolution of tiger salamanders and an emerging iridovirus**	*	Andrew Storfer. School of Biological Sciences, Washington State Univ. astorfer@wsu.edu
11:00	**The evolution of antibiotic resistance in hospitals: Does antimicrobial cycling work?**		Carl T. Bergstrom, Monique Lo, Marc Lipsitch. Dept. Biology, Univ. Washington, Seattle, WA 98115. cbergst@u.washington.edu
11:15	**Genetic variation in field strains of the gypsy moth pathogen nucleopolyhedrosis virus**	*	Pauline A. Fujita, Greg Dwyer. Dept. Ecology and Evolution, Univ. Chicago, Chicago, IL 60637. paf@uchicago.edu

11:30	**Evolution of genomes and host shifts among SARS associated and related coronaviruses.**	Daniel Andrew Janies. Dept. Biomedical Informatics, Ohio State Univ., 3184 Graves Hall, 333 W. 10th Av. Columbus, OH, 43210 USA. janies-1@medctr.osu.edu
11:45	**Identifying conflict and accord in within-host and between-host selection on parasite evolution: A nested approach**	Michael A. Gilchrist, Daniel Coombs. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37917. mikeg@utk.edu

MONDAY 1:30 – 3:00 Phylogeography — Schaible Auditorium

1:30	**Evidence from avian genetics for a necklace of glacial refugia across the North Pacific**		Christin Pruett, Kevin Winker. Univ. Alaska Museum, 907 Yukon Dr., Fairbanks, AK 99775. ftclp@uaf.edu
1:45	**Genetic consequences of the late quaternary: Lessons from phylogenetic and coalescent analyses of the Mountain Chickadee**	*	Garth M. Spellman, John Klicka, Brett Riddle, Marjorie Barrick. Museum of Natural History, Univ. Nevada - Las Vegas, Las Vegas, NV 89154. garth@unlv.nevada.edu
2:00	**Divergent patterns of species accumulation in lowland and highland Neotropical birds**	*	Jason T. Weir. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T 1Z4. weir@zoology.ubc.ca
2:15	**Phylogeography of the New Zealand freshwater crayfish, *Paranephrops sp.***		Smita Apte, Graham Wallis. Dept. Zoology, Univ. Otago, 340 Great King Street, P.O. Box 56, Dunedin, New Zealand. smita.apte@stonebow.otago.ac.nz
2:30	**Genetic divergence between Caribbean and Hawaiian populations of the banded coral shrimp *Stenopus hispidus***		Nikolaos Schizas, William E. Browne. Univ. Puerto Rico, Mayaguez, Isla Magueyes Laboratories, P.O. Box 908, Lajas, PR 00667. n_schizas@cima.uprm.edu
2:45	**Breaching the impassable barrier: Genetic connections in 20 transpacific fishes**		Harilaos A. Lessios, D.R. Robertson. Smithsonian Tropical Research Inst., Unit 948, APO AA 34002. Lessiosh@stri.org

MONDAY 1:30 – 3:00 Experimental evolution — Gruening 208

1:30	**Adaptive diversification in genes regulating resource use in *Escherichia coli***		Melanie Bertrand, Christine C. Spencer, Michael Doebeli. Univ. British Columbia. spencer@zoology.ubc.ca
1:45	**The speed of evolution and maintenance of variation in asexual populations**	*	Michael M. Desai, Daniel S. Fisher, Andrew W. Murray. Dept. Physics, Jefferson Laboratories, Harvard Univ., 17 Oxford Street, Cambridge, MA 02138. desai@fas.harvard.edu
2:00	**Rapid genomic size change in *Saccharomyces cerevisiae***	*	Aleeza C. Gerstein, Sarah P. Otto. Dept. Zoology, Univ. British Columbia, Vancouver, BC V6T 1Z4 Canada. gerstein@zoology.ubc.ca
2:15	**A tale of two genotypes: A cautionary account of laboratory dependence**		Kara J O'Keefe, Nadya M. Morales, Paul E. Turner. Ecology and Evolutionary Biology, Yale Univ., New Haven, CT 06520. kara.okeefe@yale.edu
2:30	**The evolution of a 'tragedy of the commons' in host-pathogen metapopulations**	*	Benjamin Kerr, Claudia Neuhauser, Brendan J. M. Bohannan, Antony M. Dean. Ecology, Evolution and Behavior Dept., Univ. Minnesota, 100 Ecology, 1987 Buford Circle, St. Paul, MN 55108. kerrx024@umn.edu

* student presenter

2:45	**Replaying the molecular tape of life: Antibiotic resistance evolution in *E. coli***		Daniel M. Weinreich. Organismic and Evolutionary Biology, Harvard Univ. dmw@oeb.harvard.edu

MONDAY 1:30 – 3:00 Invasive Species — Wood Center C & D

1:30	**Genetic bottlenecks and rapid evolution in an invasive plant**	*	Katrina M. Dlugosch, Ingrid M. Parker. Ecology and Evolutionary Biology, Univ. California Santa Cruz, Santa Cruz, CA 95064. dlugosch@biology.ucsc.edu
1:45	**Decision case development for invasive ornamental crops**		Neil O. Anderson. Dept. Horticultural Science, Univ. Minnesota, Saint Paul, MN 55108. ander044@umn.edu
2:00	**Evolutionary origins of weedy rye (*Secale cereale*) in western North America**	*	Jutta C. Burger, Sky Lee, Norman C. Ellstrand. Dept. Botany and Plant Sciences, Univ. California-Riverside, Riverside, CA 92521. jburge002@student.ucr.edu
2:15	**Homology of microsatellite and ISSR markers in *Cirsium* (Asteraceae)**		Tracey A. B. Slotta, David Horvath. 1605 Albrecht Blvd. Fargo ND 58105-5674. slottat@fargo.ars.usda.gov
2:30	**Range expansion: Edge vs. central populations in a newly invasive species**	*	Alisa P. Ramakrishnan, Trieste Dobberstein, Mitch Cruzan. Dept. Biology, Portland State Univ., Portland, OR 97207. aramakris@yahoo.com
2:45	**Continent-wide fixation of asymmetry in invasive *Drosophila subobscura***		George W. Gilchrist, Raymond B. Huey. Dept. Biology, College of William and Mary, Williamsburg, VA 23187. gwgilc@wm.edu

MONDAY 1:30 – 3:00 Adaptation — Wood Center Ballroom

1:30	**Experimental evidence for multivariate stabilizing sexual selection on calls of male Australian field crickets**		Robert Brooks, John Hunt, Mark Blows, Michael Jennions, Caroline Bentsen, Mike Smith, Luc Bussiere. Dept. Zoology, Univ. Toronto. rob.brooks@unsw.edu.au
1:45	**Evolution of aggression as a key to the reciprocal range shifts of two passerine species**	*	Renee A. Duckworth. Biology Dept., Duke Univ., Durham, NC 27708. rad3@duke.edu
2:00	**When "wet" seasons aren't: Selection on beak morphology in Darwin's finches**		Andrew P. Hendry, Luis DeLeon, Sarah K. Huber, Jeffrey Podos. Redpath Museum and Dept. Biology, McGill Univ., 859 Sherbrooke St. W., Montreal, Quebec, H3A 2K6 Canada. andrew.hendry@mcgill.ca
2:15	**Adaptations to high altitude alpine tundra in Cinnamon Teals and Silver Teals**	*	Robert E. Wilson, Christopher P. Barger, Kevin P. Johnson, Kevin G. McCracken. Dept. Biology and Wildlife, 211 Irving 1, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ftrew1@uaf.edu

* student presenter

2:30	**The fit of organism and environment: Towards an integrated theory of adaptation**		David D. Ackerly. Dept. Integrative Biology, Univ. California, Berkeley CA 94720. dackerly@berkeley.edu
2:45	**Feeding performance in divergent threespine stickleback populations**	*	Matthew P. Travis. Stoyn Brook Univ. mtravis@life.bio.sunysb.edu

MONDAY 1:30 – 3:00 Ernst Mayr Award — Gruening 306

1:30	**Flower-feeding bloodsuckers: Local adaptation in long tongued horse flies**	*	Shelah I. Morita. Population Biology Graduate Group, Univ. California, Davis, CA, 95616. simorita@ucdavis.edu
1:45	**The use of simulation to study the role of alignment accuracy in phylogenetic inference**		T. Heath Ogden, Michael S. Rosenberg. School of Life Sciences, P.O. Box 874501, ASU, Tempe, AZ, 85287. heath_ogden@asu.edu
2:00	**A pan-Pacific odyssey: The diversification of *Rhyncogonus* weevils in the South Pacific**	*	Elin M. Claridge, Rosemary G. Gillespie, George K. Roderick. Insect Biology Division, Univ. California Berkeley, Berkeley, CA 94720. elinclaridge@berkeley.edu
2:15	**Are unequal clade priors a problem for Bayesian phylogenetics?**	*	Matthew C. Brandley, Adam D. Leache, Dan L. Warren, Jimmy A. McGuire. Museum of Vertebrate Zoology and Univ. California, Berkeley. brandley@berkeley.edu
2:30	**A comparative phylogenetic perspective of parallel evolution in morphologically conservative groups of scincid lizards**	*	Jonathan Q. Richmond. Ecology and Evolutionary Biology, Univ. Connecticut, Storrs, CT 06269-3043. jonathan.richmond@uconn.edu
2:45			

MONDAY 1:30 – 3:00 Microbial evolution — Lee H. Salisbury Theatre

1:30	**The transition from methanogen to haloarchaeum was due to horizontal gene transfer from bacteria**	Christopher J. Creevey, James O. McInerney. National Univ. Ireland, Maynooth. chris.creevey@nuim.ie
1:45	**Smoking guns and heavy metal bullets: Indirect selection for ant**	J Vaun McArthur, R. Cary Tuckfield, Ramunas Stepanuaskas. Savannah River Ecology Laboratory, Univ. Georgia, Aiken, SC 29802. mcarthur@srel.edu
2:00	**Fish, germs, and steel (and other toxic metals): The multivariate evidence for environmental selection**	R. Cary Tuckfield, J Vaun McArthur. Savannah River National Laboratory, Aiken, SC, 29808. cary.tuckfield@srnl.doe.gov
2:15	**Evolution of the *Rhodobacter capsulatus* Gene Transfer Agent (GTA)**	Andrew S. Lang. Inst. Marine Science, Univ. Alaska Fairbanks, Fairbanks, AK, 99775. asl@ims.uaf.edu
2:30	**Are bacterial MLST genes really neutral? It depends on the site of the beholder**	Marcos Perez-Losada, Keith A. Crandall. Dept. Integrative Biology, Brigham Young Univ., Provo, UT84602. mp323@email.byu.edu

2:45 Global patterns in 16S evolution across the bacteria domain

* Eric L. Miller. 1 Univ. Station C0930, Austin, TX 78712. eric.miller@mail.utexas.edu

MONDAY 3:30 – 5:00 Phylogeography — Schaible Auditorium

3:30 Phylogeography of the sand shiner (*Notropis stramineus*)
* Kendra J. Pittman. 2101 Constatnt Avenue, Univ. Kansas, Lawrence, KS 66045. kjpi@ku.edu

3:45 Postglacial expansion of the long-tailed mouse *Oligoryzomys longicaudatus* in the southcentral Andes of Chile
R. Eduardo Palma, D. Boric-Bargetto, F. Torres-Perez, Terry L. Yates. Departamento de Ecologia, Universidad Catolica de Chile, Santiago 6513677, Chile. epalma@bio.puc.cl

4:00 Phylogeography and cryptic species of the black-bellied salamanders
Leslie J. Rissler, Jessica Wooten. Dept. Biological Sciences, Univ. Alabama, Tuscaloosa, AL 35487. rissler@bama.ua.edu

4:15 Phylogeography and paleoecology: Integrating niche breadth volume, habitat fluctuations and historical demography
Jason MacKenzie, Mike Hickerson, Steve Williams, Craig Moritz. Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720. jbm@berkeley.edu

4:30 Molecular and adaptive variation within a native Patagonian fish complex
Daniel E. Ruzzante, S. J. Walde, V. E. Cussac, M. L. Dalebout, P. J. Macchi, J. Seibert, E. Habit, M. Alonso. Dept. Biology, Dalhousie Univ., Halifax, Nova Scotia B3H 4J1, Canada. daniel.ruzzante@dal.ca

4:45 Diversification of a Neotropical ant: Molecular phylogeography of *Atta spp.*
* Scott E. Solomon, Mauricio Bacci, Jr., Ulrich G. Mueller. Section of Integrative Biology, The Univ. Texas at Austin, 1 Univ. Station, C0930, Austin, TX 78712. ssolomon@mail.utexas.edu

MONDAY 3:30 – 5:00 Ecological genetics — Gruening 208

3:30 Altitudinal variation in hemoglobins of deer mice
Jay F. Storz, Eben Gering, Stephen Sabatino, Michael W. Nachman. Dept. Biology, Univ. Nebraska. storz@sfsu.edu

3:45 Maintenance of diversity in a heterogeneous environment: Landscape predicts variance within populations of lodgepole pine (*Pinus contorta*)
* Sam Yeaman, Andy Jarvis. Zoology Dept., Univ. British Columbia, Vancouver, BC, V6T 1Z4. yeaman@zoology.ubc.ca

4:00 EST databases as a source for molecular markers in understudied species: Lessons from *Helianthus*
Catherine H. Pashley, Jennifer R. Ellis, John M. Burke. Dept. Biological Sciences, Vanderbilt Univ., VU Station B 351634, Nashville, TN 37235. Cat.Pashley@vanderbilt.edu

4:15 Genetic variation in cottonwoods structures arthropod communities at local to regional scales
Gery J. Allan, Randy K. Bangert, Nashelly Meneses, Thomas G. Whitham, Paul Keim. Biological Sciences Dept., Northern Arizona Univ., Flagstaff, AZ 86011. gery.allan@nau.edu

4:30	**Selective sweeps in ecological speciation of homoploid hybrid sunflower, *Helianthus anomalus***	Yuval Sapir, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN, 47405, USA. ysapir@indiana.edu
4:45	**The instability of heritability: Quantitative genetics of life history in a long-term field experiment in *P. lanceolata***	Jeffry L. Dudycha, Deborah A. Roach. Dept. Biology, Indiana Univ., Bloomington IN 47404. jeffdudycha@gmail.com

MONDAY 3:30 – 5:00 Invasive Species/Comparative biology — Wood Center C & D

3:30	**Phylogenetic placement and suggested native range of beech scale (Hemiptera: Eriococcidae)**	*	Rodger A. Gwiazdowski, A. Desnoyiers, R. G. Van Driesche, B. B. Normark. Division of Entomology and OEB Graduate Program, UMass, Amherst 01003. rodger@psis.umass.edu
3:45	**Growth response to herbivory: A critical factor in assessing invasive potential**	*	Nadilia Gomez, Neil Anderson. Dept. Horticultural Science, Univ. Minnesota, Saint Paul, MN 55108. gome0046@umn.edu
4:00	**Simulation models of gene expression during butterfly color pattern development**		Jeffrey M. Marcus. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. jeffrey.marcus@wku.edu
4:1	**A comprehensive analysis of wing shape and size across the family Drosophilidae**		Kim van der Linde, David Houle. Dept. Biological Science, Florida State Univ., Tallahassee, Florida 32306-1100, U.S.A. kim@kimvdlinde.com
4:30	**Seasonal migration, speciation, and morphological convergence in the *Catharus* thrushes (Aves: Turdidae).**		Kevin Winker, Christin L. Pruett. Univ. Alaska Museum, 907 Yukon Drive, Fairbanks, AK 99775. ffksw@uaf.edu
4:45	**Synteny and linkage of molecular markers between *Xiphophorus* and *Poecilia***	*	Martin Brummell, Felix Breden. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, British Columbia, Canada V5A 1S6. mbrummel@sfu.ca

MONDAY 3:30 – 5:00 Adaptation — Wood Center Ballroom

3:30	**Adaptive population divergence in balsam poplar along a latitudinal cline**	*	Amy Breen Carroll, Elise Glenn, Adam Yeager, Matthew Olson. Dept. Biology and Wildlife and Inst. Arctic Biology, Univ. Alaska, Fairbanks, AK 99775. ftabc@uaf.edu
3:45	**Hybridization dynamics of native greenback cutthroat trout and introduced rainbow trout**	*	Jessica L Metcalf, Matthew R Siegle, Andrew P Martin. N122 Ramaley Biology, Univ. Colorado, Boulder, 80309-0334. jessica.metcalf@colorado.edu
4:00	**Geographical variation and polymorphism in a flatfish**		Carolyn A. Bergstrom, A. Richard Palmer. Bamfield Marine Science Center, Univ. Alberta, Bamfield, British Columbia, V0R 1B0. cbergstr@bms.bc.ca

* student presenter

4:15	**Evolution and the information content of selective environments: Flash floods and aquatic insects**	David A. Lytle, Arthur L. Pelegrin, Michael T. Bogan. Dept. Zoology, Oregon State Univ., Corvallis, OR 97331. lytleda@science.oregonstate.edu
4:30	**Towards an understanding of the role of positive selection in protein evolution**	Mary J. O'Connell, James O. McInerney. Bioinformatics and Molecular Evolution Lab, School of Biotechnology, Dublin City University, Glasnevin, Dublin 9, Ireland. mary.oconnell@dcu.ie
4:45	**Differential population responses to climate by Chinook salmon and implications for metapopulation viability through projected climate change**	Lisa Crozier, Rich Zabel, Steve Achord. NOAA Fisheries Service, Northwest Fisheries Science Center, 2725 Montlake Blvd East, Seattle, WA 98112 USA. Lisa.Crozier@noaa.gov

MONDAY 3:30 – 5:00 Sexual selection — Gruening 306

3:30	**The evolution of iridescent plumage coloration**	Geoffrey E. Hill, Mathew D. Shawkey, Stephanie M. Doucet. Dept. Biol. Sci., Auburn Univ., Auburn, AL 36830. ghill@acesag.auburn.edu
3:45	**The direct benefits of female mating preferences in a field cricket**	William E. Wagner Jr. School of Biological Sciences, Univ. Nebraska, Lincoln, NE 68588-0118. wwagner@unlserve.unl.edu
4:00	**The scent of dominance**	Raine Kortet, Ann Hedrick. Neurobiology, Physiology and Behavior, UC Davis, One Shields Avenue, Davis, CA 95616. rkkortet@ucdavis.edu
4:15	**Are sexually selected traits and mate recognition traits two separate systems in field cricket communication?**	Marna Ferreira, J. Willem H. Ferguson. Centre for Environmental Studies, Pretoria Univ. 0002 Pretoria, South Africa. jwhferguson@zoology.up.ac.za
4:30	**Factors affecting male fertilization success in red flour beetles**	Aditi Pai, Stephanie Manka, Shelly Beckford, Varma Penumetsa, Derek Reformat, Guiyun Yan. Biological Sciences, Suny-Buffalo, NY 14260. ADITIPAI@BUFFALO.EDU
4:45		

MONDAY 3:30 – 5:00 Molecular evolution — Lee H. Salisbury Theatre

3:30	**Overwhelming recombination at Ldh-B: How does selection act on functional promoter DNA sequence?**		Jaros Phinchogsakuldit, Jeffrey D VanWye, Douglas L Crawford. MBF Dept., RSMAS, Univ. Miami, Miami, FL 33149. jaros_omm@hotmail.com
3:45	**Identification of physicochemical selective pressure on protein encoding nucleotide sequences**	*	Wendy S. W. Wong, Raazesh Sainudiin, Rasmus Nielsen. 101 Biotech Bldg, Cornell Univ., Ithaca NY 14853. sww8@cornell.edu
4:00	**The evolutionary history of the Apicomplexans**	*	Gayle K. Philip, James O. McInerney. Bioinformatics Lab, National Univ. Ireland, Maynooth, Co. Kildare, Ireland. gayle.k.philip@nuim.ie

* student presenter

4:15 Sources of variation in ancestral sequence reconstruction (ASR)

Howard A. Ross. Bioinformatics Inst., Univ. Auckland, Private Bag 92019, Auckland, New Zealand. h.ross@auckland.ac.nz

4:30 Accelerated molecular evolution in *Microtus* (Rodentia) as assessed via complete mitochondrial genome sequences

* Deborah A. Triant, J. Andrew DeWoody. Dept. Forestry and Natural Resources, Purdue Univ., West Lafayette, IN 47907. dtriant@purdue.edu

4:45 Endolichenic fungi: Random inhabitants or symbiotic partners

Jolanta Miadlikowska, A. E. Arnold, K. L. Higgins, S. D. Sarvate, P. Gugger, A. Way, V. Hofstetter, F. Lutzoni. Dept. Biology, Duke Univ., Durham, NC 27708. jolantam@duke.edu

* student presenter

TUESDAY 8:00 – 10:00 Phylogeography — Schaible Auditorium

8:00 Niche evolution and the origin of migratory pathways in the Swainson's thrush
* Kristen Ruegg, Robert Hijmans. Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720-3160. kruegg@bekeley.edu

8:15 Identification of glacial refugia by phylogeographic analyses of a forest understory species, *Trillium cuneatum*
* Eva Gonzales, SM Chang, JL Hamrick. Univ. Georgia, Plant Biology, Athens, GA 30602. egonz@plantbio.uga.edu

8:30 Lowland phylogeography of New Guinea birds
John P. Dumbacher, Andrew Mack, Kristy L. Deiner, Robert C. Fleischer. California Academy of Sciences, San Francisco, CA 94103. kdeiner@calacademy.org

8:45 Rapid diversification of coloration among populations of a Peruvian poison frog isolated on sky islands
* Jennifer L. Roberts, Rainer Schulte, Wilfredo Arizabal, Kyle Summers. Dept. Biology, East Carolina Univ., Greenville, NC 27858. jlr0630@mail.ecu.edu

9:00 Molecular phylogenetics of crotaphytid lizards: A complicated tale of gene flow and mitochondrial introgression
Jimmy A. McGuire, A. Kristopher Lappin, Delbert W. Hutchison, David Orange, Julio Lemos-Espinal. Museum of Vertebrate Zoology, Univ. California, Berkeley, CA 94720. mcguirej@berkeley.edu

9:15 Phylogeography and systematics of the trilling chorus frogs (*Pseudacris*)
* Emily C. Moriarty Lemmon, Joseph T. Collins, Alan R. Lemmon, David C. Cannatella. Patterson Lab 141, 24th and Speedway, Univ. Texas, Austin, TX 78712. chorusfrog@mail.utexas.edu

9:30 Phylogeography of the morphologically diverse anostracan *Branchinella longirostris* Wolf 1911 from granite rock pools in Western Australia
* Magdalena Zofkova, Brian V. Timms. Animal Biology (M092), UWA, 35 Stirling Hwy, Crawley, Western Australia 6009. magdalen@cyllene.uwa.edu.au

9:45 The phylogeography of the diamond-backed (man-eating) watersnake, *Nerodia rhombifer*
* Matthew C. Brandley, Chris T. Winne, Tod W. Reeder. Museum of Vertebrate Zoology, Univ. California, Berkeley. brandley@berkeley.edu

TUESDAY 8:00 – 10:00 Ecological genetics — Wood Center C & D

8:00 Adaptive plasticity and phenotype evolution in a plant hybrid zone
Mitch Cruzan, Josh Picotte, Heather de Glanville, Kristin Anton. Portland State Univ. cruzan@pdx.edu

8:15 Mechanisms maintaining coexistence of sympatric cytotypes in *Arnica cordifolia* (Asteraceae)
* Rebecca A. Hufft. Ecology and Evolutionary Biology, Univ. California Santa Cruz, Santa Cruz, CA 95064. hufft@darwin.ucsc.edu

8:30 Genetic and phenotypic variation in *Peromyscus polionotus*: Using molecular methods to revisit Haldane's clinal theory
* Lynne M. Mullen, Hopi E. Hoekstra. Division of Biological Sciences, Univ. California-San Diego, La Jolla, CA 92093-0116. lynne@ucsd.edu

8:45	**Fine mapping of floral architecture traits in *Arabidopsis***		Kathleen Engelmann, Mark Ungerer, Michael Purugganan. Dept. Genetics, North Carolins State Univ., Raleigh, NC 27695. kengelmann@ncsu.edu
9:00	**Rapid evolution of drought tolerance in wild mustard (*Brassica rapa*)**		Steven J. Franks, Arthur E. Weis. Dept. Ecology and Evolutionary Biology, 321 Steinhaus Hall, The Univ. California, Irvine, Irvine, CA 92697-25. sfranks@uci.edu
9:15	**Genetic variation in Aspen structures arthropod community composition**	*	Nashelly Meneses, Joseph K. Bailey, Gery J. Allan, Brian Rehill, Rick Lindroth, Thomas G. Whitham, Paul Keim. Dept. Biological Sciences, Northern Arizona Univ., PO Box 5640, Flagstaff, AZ 86011-5640. nm49@dana.ucc.nau.edu
9:30	**Spatial autocorrelation of alder-associated *Frankia* genotypes at Skookum Pass, Seward Peninsula, Alaska**		D. Lee Taylor, Jack M. McFarland, Roger W. Ruess. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. lee.taylor@iab.alaska.edu
9:45	**Genetics of adaptation in annual and perennial *Mimulus guttatus***	*	Megan C. Hall, John H. Willis. Dept. Biology, Duke Univ., Durham, NC 27708. mch10@duke.edu

TUESDAY 8:00 – 10:00 Hybridization — Gruening 208

8:00			
8:15			
8:30	**Placental invasiveness mediates the evolution of reproductive isolation in mammals**	*	Mick Elliot, Bernard J. Crespi. Dept. Biological Sciences, Simon Fraser Univ., Burnaby, BC, Canada. micke@sfu.ca
8:45	**Some like it hot: Ecophysiological differences among two Ipomopsis species and their reciprocal hybrids**	*	Carrie A. Wu. Dept. Ecology and Evolutionary Biology. Univ. California Irvine, Irvine, CA 92697. carriewu@uci.edu
9:00	**Interspecific hybridization produces a new transcriptional landscape in yeast**	*	Christian R. Landry, Julia Oh, Christina Queitsch, Duccio Cavalieri. Organismic and Evolutionary Biology, Harvard Univ., Cambridge MA 02138, USA. clandry@fas.harvard.edu
9:15	**Can the complex phenotypes of naturally occuring hybrid species be recreated in early generation artificial hybrids?**		David M. Rosenthal, Loren H. Reiseberg, Lisa A. Donovan. Biology Dept., Portland State Univ., PO Box 751, Portland OR, 97207. drosen@pdx.edu
9:30	**Reduced mitochondrial function and interpopulation F2 hybrid breakdown in the intertidal copepod *Tigriopus californicus***	*	Christopher K. Ellison, Ronald S. Burton. Scripps Institution of Oceanography, Univ. California San Diego, La Jolla, CA 92093-0208. cellison@ucsd.edu
9:45	**The genomics of a house mouse hybrid zone: Comparisons among loci and between transects**	*	Katherine C. Teeter, Michael W. Nachman, Priscilla K. Tucker. Museum of Zoology, Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. kcteeter@umich.edu

TUESDAY 8:00 – 10:00 Co-evolution — Wood Center Ballroom

8:00	**Newt-snake co-evolution: Match and mismatch at the phenotypic interface**	*	Charles T. Hanifin, E.D. Brodie III, E.D. Brodie Jr. Dept. Biology, Utah State Univ., Logan, UT 84322. chanifin@biology.usu.edu
8:15	**Is tetrodotoxin a maternally-endowed chemical defense against predation in rough-skinned newt (*Taricha granulosa*) eggs?**	*	Elizabeth M. Lehman, Edmund D. Brodie, Jr., Edmund D. Brodie, III. Dept. Biology, Indiana Univ., 1001 E Third St., Bloomington, IN 47405. elehman@bio.indiana.edu
8:30	**Diversification of a sodium channel and TTX resistance in a predator-prey interaction**	*	Shana L. Geffeney, Edmund D. Brodie, III, Edmund D. Brodie, Jr., Peter C. Ruben. Dept. Biology, Utah State Univ., Logan, UT 84322-5305. geffeney@biology.usu.edu
8:45	**The evolution of microhabitat specialization in parasitic lice: Character displacement or lineage assortment?**		Vincent S. Smith, Kevin P. Johnson. Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820-6970, USA. vsmith@inhs.uiuc.edu
9:00	**Phylogenetic perspective on co-evolution of nestling begging signals in parasitic finches and their estrildid finch hosts**		Michael D. Sorenson, Heather C. Shull, Robert B. Payne. Dept. Biology, Boston Univ., Boston, MA 02215. msoren@bu.edu
9:15	**The evolution of New World fig wasp communities**		Wendy A. Marussich, Carlos A. Machado. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. wmarussi@email.arizona.edu
9:30	**Host switching, endothermy and the evolution of schistosomes**		Sara V. Brant, Eric S. Loker. Univ. New Mexico, Dept. Biology, 167 Castetter Hall, Albuquerque, NM 87131. sbrant@unm.edu
9:45	**Evidence for a global *Wolbachia* replacement in *Drosophila melanogaster***		Markus Riegler, Manpreet Sidhu, Wolfgang J. Miller, Scott L. O'Neill. School of Integrative Biology, Univ. Queensland, St. Lucia, QLD 4072, Australia. mriegler@uq.edu.au

TUESDAY 8:00 – 10:00 Macroevolution/paleontology — Gruening 306

8:00	**Evolution of hypercarnivory: Specialization, stasis, and the question of directional bias**	*	Jill A. Holliday. Florida State Univ., Tallahassee, FL. holliday@bio.fsu.edu
8:15	**Limitations of birth-death models in the analysis of diversification rates**	*	Daniel L Rabosky. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca NY 14853-2701. DLR32@cornell.edu
8:30	**Macroevolutionary patterns of cetacean life history variation**	*	Samantha A. Price, John, L. Gittleman. Dept. Biology, Univ. Virginia, Charlottesville, Virginia, VA22903. SPrice@virginia.edu
8:45	**Do deviant morphologies last longer in the fossil record? A comparative study using multiple datasets**	*	Lee Hsiang Liow. Committee on Evolutionary Biology, Univ. Chicago, 5734 S. Ellis Ave Chicago IL 60637. lhliow@midway.uchicago.edu

9:00	**Understanding the tempo of evolution through simulations of diversification through time**	*	Dennis H.J. Wong, Stephen B. Heard. Univ. New Brunswick, Biology Dept., P.O. Bag service 45111, Fredericton, NB Canada, E3B 6E1. g0azw@unb.ca
9:15	**Correlated evolution of functionally associated morphological characters in *Carboniferous echinoderms***	*	Kimberly S. Koverman. Univ. Chicago, Dept. Geophysical Sciences, 5746 S. Ellis Ave., Chicago, IL 60637. koverman@uchicago.edu
9:30	**Unequal morphological diversification in sister clades of characiform fishes**	*	Brian Sidlauskas. Univ. Chicago, Committee on Evolutionary Biology, 1025 E. 57th St., Culver Hall 402, Chicago, IL, 60637. bls@uchicago.edu
9:45	**Micro-sympatry correlates with rate of morphological evolution in darter fishes (*Teleostei*: Percidae)**	*	Rose L. Carlson, Peter C. Wainwright, Thomas J. Near. Center for Population Biology and Section of Evolution and Ecology, Univ. California, Davis, Davis, CA 95616. rlcarlson@ucdavis.edu

TUESDAY 8:00 – 10:00 Molecular evolution — Lee H. Salisbury Theatre

8:00	**Latitude and rate of molecular evolution: Frogs closer to the equator evolve faster**	*	Jeremy M. Brown, David P. Bickford. Section of Integrative Biology, Univ. Texas, Austin, TX, 78712. jembrown@mail.utexas.edu
8:15	**Intraspecific mitochondrial recombination: Mechanisms for resetting Muller's ratchet**		Gary J. Houliston, Matthew S. Olson. Inst. Arctic Biology, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. ffgjh@uaf.edu
8:30	**Causes of cis-regulatory polymorphism in humans**	*	Matthew V. Rockman, Gregory A. Wray. Lewis-Sigler Inst. for Integrative Genomics, Princeton Univ., Princeton, NJ 08544. mrockman@princeton.edu
8:45	**Pervasive adaptive evolution in primate seminal proteins**	*	Nathaniel Clark, Willie J. Swanson. Univ. Washington, Dept. Genome Sciences, 1705 NE Pacific St., HSB K-354, Seattle, WA 98195. clarknl@u.washington.edu
9:00	**Trans-specific evolution of MHC genes in Pacific salmon**		Andres Aguilar, John Carlos Garza. Dept. Ocean Sciences, UC Santa Cruz, Santa Cruz, CA, 95060. andres.aguilar@noaa.gov
9:15	**Reconstructing ancestral visual pigments**		Belinda Chang, Bradley Chewpoy, Manija Kazmi, Thomas P. Sakmar. Dept. Zoology, Univ. Toronto, Toronto, Canada M5S 3G5. changb@zoo.utoronto.ca
9:30	**Molecular paleontology suggests adaptive evolution of color diversity in corals**		Steven F. Field, Maria Y. Bulina, Ilya V. Kelmanson, Joseph P. Bielawski, Mikhail V. Matz. Whitney Laboratory for Marine Bioscience, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, FL 32080. matz@whitney.ufl.edu
9:45	**Functional evolution following gene duplication in morning glories**	*	David L. Des Marais, Mark D. Rausher. Dept. Biology, Duke Univ., Durham, NC 27708. dld3@duke.edu

* student presenter

TUESDAY 10:30 – 12:00 Phylogeography — Schaible Auditorium

10:30 Phylogenetic relationship of bovine *Babesia* in a world-wide collection of isolates

Sigrid Vogl, Monika Zahler-Rinder. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. sigrid.vogl@iab.alsaka.edu

10:45 The origin and diversification of Galapagos Mockingbirds

Brian S. Arbogast, Peter T. Boag, Gilles Seutin, Peter R. Grant, B. Rosemary Grant, Sergei V. Drovetski, Robert L. Curry. Dept. Biological Sciences, Humboldt State Univ., Arcata, CA 95521. bsa2@humboldt.edu

11:00 Genetic differentiation across spatial scales of a leaf litter frog in the upper Amazon

* Kathryn R. Elmer, Jose A. Davila, Luis A. Coloma, Stephen C. Lougheed. Dept. Biology, Queen's Univeristy, Kingston, ON K7L 3N6. elmerk@biology.queensu.ca

11:15 Deep genealogical history in the zebra-tailed lizard (*Callisaurus draconoides*) reveals the old age of Baja California

* Johan Lindell, Fausto R. Méndez-de la Cruz, Robert W. Murphy. Dept. Natural History, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, M5S 2C6, Canada. johan.lindell@utoronto.ca

11:30 Systematics and phylogeography of the mountain-lizard *Liolaemus monticola* (Liolaemidae): A case of a polyphyletic group

Fernando Torres-Perez, Juan C. Ortiz, Edgar Benavides, Marco A. Mendez, Madeleine Lamborot, R. Eduardo Palma. Dept. Biology, Univ. New Mexico, MSC03-2020, NM. ftorresperez@salud.unm.edu

11:45 Biogeographic origins of an isolated frog community in lower Central America

Andrew J. Crawford, Carolina Polanía, Ian Wang, Biff Bermingham. Smithsonian Tropical Research Inst., Apto. 2072, Balboa, Ancon, Ciudad Panama, Republic of Panama. andrew@dna.ac

TUESDAY 10:30 – 12:00 Ecological genetics — Wood Center C & D

10:30 Genetic integration of traits constrains leaf physiology in males more than in females of *Silene latifolia*

Janet C. Steven, Lynda F. Delph, Edmund D. Brodie III. Dept. Biology, Indiana Univ., Bloomington, IN 47405. jancstev@indiana.edu

10:45 Selective sweeps reveal candidate genes for adaptation to drought and salt tolerance in *Helianthus annuus*

* Nolan C. Kane, Loren H. Rieseberg. Indiana Univ., Bloomington, IN 47405. nkane@indiana.edu

11:00 Variation in growth, form, and life history in dwarf and normal pitch pines in the Long Island Pine Barrens

Wei Fang, Daniel R. Taub, Gordon A. Fox, R. Matthew Landis, Jessica Gurevitch. Dept. Ecology and Evolution, Stony Brook Univ., Stony Brook NY 11794-5245 USA. jgurvtch@life.bio.sunysb.edu

11:15 Evolutionary dynamics of a cytoplasmic male sterility gene in *Mimulus guttatus*, a wild hermaphroditic plant

Andrea L. Case, John H. Willis. Duke Univ., Biological Sciences, Durham NC 27708. acase@duke.edu

* student presenter

11:30	**Natural selection on leaf photosynthetic physiology: testing adaptive hypotheses in contrasting environments**		Hafiz Maherali, Mark E. Sherrard. Dept. Integrative Biology, Univ. Guelph, Guelph, ON N1G2W1. maherali@uoguelph.ca
11:45	**Selection in the intertidal: Evolution of the MPI locus in blue mussels**	*	Jay Caponera. School of Marine Sciences, Univ. Maine, Orono, ME 04469l. jay.caponera@maine.edu

TUESDAY 10:30 – 12:00 Co-evolution — Wood Center Ballroom

10:30	**Does phoretic hitchhiking influence host-parasite co-evolution?**	*	Christopher W. Harbison, Sarah E. Bush, Jael R. Malenke, Dale H. Clayton. Biology Dept., Univ. Utah, Salt Lake City, UT 84112. harbison@biology.utah.edu
10:45	**A polydnavirus paradox: Co-phylogeny and mosaic genomes**		James B. Whitfield, Jonathan C. Banks. Dept. Entomology, Univ. Illinois, Urbana, IL, 61801. jwhitfie@life.uiuc.edu
11:00	**Co-evolution of armored scale insects and their flavobacterial primary endosymbionts**	*	Matthew E. Gruwell, Geoffrey E. Morse, Benjamin B. Normark. Entomology Division and OEB Graduate Program, Univ. Massachusetts, Amherst, MA 01003. gruwell@psis.umass.edu
11:15	**Co-phylogeography of an obligate pollination mutualism: A graph theoretic analysis**		John D. Nason, Rodney J. Dyer. Dept. Ecology, Evolution, and Organismal Biology, Iowa State Univ., Ames, 50011. jnason@iastate.edu
11:30	**Offspring sex ratios from a cross between North American and European populations of a gynodioecious plant**		Matthew S. Olson, Gary Houliston, Helena Storchova. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. matt.olson@uaf.edu
11:45	**Replicated patterns in the geographic mosaic of selection for bird-dispersed pines and Clark's nutcracker**	*	Adam M. Siepielski, Craig W. Benkman. Dept. Zoology and Physiology, The Univ. Wyoming, Laramie WY 82071. asiepiel@uwyo.edu

TUESDAY 10:30 – 12:00 Macroevolution/paleontology — Gruening 306

10:30	**An analysis of metazoan phylogeny based on a region of the clathrin heavy chain gene**	*	Alonso J. Cordoba, Frank E. Anderson. Dept. Zoology, Southern Illinois Univ., Carbondale, IL 62901. ajcg@siu.edu
10:45	**New perspectives on the phylogenetic diversity of mammals**		Richard Grenyer. Dept. Biology, Univ. Virginia. grenyer@virginia.edu
11:00	**Hierarchical patterns in primate diversity skewness: Local communities to world phylogenies**		Stephen B. Heard, Graham H. Cox, Rutger Vos. Dept. Biology, Univ. New Brunswick, Fredericton, NB, E3B 6E1, Canada. sheard@unb.ca

* student presenter

11:15	**New fossil evidence for the timing and pattern of crown clade avian diversification**	Julia Clarke, Claudia Tambussi, Jorge Noriega, Gregory Erickson, Richard Ketcham. North Carolina State Univ. and North Carolina Museum of Natural Sciences Raleigh, NC 27695. julia_clarke@ncsu.edu
11:30	**Using stochastic models of character evolution and cladogenesis to test key innovation hypotheses**	Richard Ree. Field Museum of Natural History, Chicago, IL 60605. rree@fieldmuseum.org
11:45	**Testing rates of character change with compatibility: Examples with fossil taxa**	Peter J. Wagner. Dept. Geology, Field Museum, Chicago, IL 60615. pwagner@fmnh.org

TUESDAY 10:30 – 12:00 Molecular evolution — Lee H. Salisbury Theatre

10:30	**Opsin gene structure and function in *Lycaena* species (Lepidoptera)**	*	Nelida B. Pohl, Gary D. Bernard, Adriana D. Briscoe. Ecology and Evolutionary Biology, 321 Steinhaus Hall, Univ. California Irvine, Irvine, CA 92697. npohl@uci.edu
10:45	**Evolution of tRNA: A phylogenetic perspective**		Feng-Jie Sun, Ajith Harish, Gustavo Caetano-Anolles. Dept. Crop Sciences, Univ. Illinois at Urbana-Champaign, Urbana, IL 61801. fsun@uiuc.edu
11:00	**The evolution of simple sequences in proteins: A+T bias, replication, and recombination in the malaria pathogen *P. falciparum***	*	Martine Zilversmit, Mark A. DePristo, Daniel L. Hartl. Harvard Univ., Dept. Oganismic and Evolutionary Biology, Cambridge MA, 02138. martine@oeb.havard.edu
11:15	**Dual nature of human codon bias: RNA selection on a gene by gene basis**	*	Alexander Platt. Dept. Organismic and Evolutionary Biology, Harvard Univ. Cambridge, MA 02138. aplatt@oeb.harvard.edu
11:30	**Mitochondrial genomes of *Vanhornia sp.* and *Primeochroeus sp.*: Evidence of rearranged mitochondrial genomes within Apocrita (Hymenoptera)**	*	Lyda R. Castro, Mark Dowton. Dept. Biological Sciences. Univ. Wollongong, NSW 2522 Australia. lrc89@uow.edu.au
11:45	**Strength of selection againts missense mutations in humans**		Lev Yampolsky. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614. yampolsk@etsu.edu

* student presenter

TUESDAY 1:30 – 3:00 Phylogeography — Schaible Auditorium

1:30	**Phylogeography and repetitive hybridization in sexual Bynoe's geckos (*Heteronotia binoei*)**		Jared L. Strasburg. Indiana Univ., Dept. Biology. jstrasbu@indiana.edu
1:45	**Phylogeography of California voles and an intraspecific zone of contact**		Chris J. Conroy, Jennifer Neuwald. Museum of Vertebrate Zoology, UC Berkeley, Berkeley, CA 94720. ondatra@berkeley.edu
2:00	**Mitochondrial and microsatellite data for *Anastrepha suspensa* (Carib Fly): Implications for Caribbean biogeography**		Laura M. Boykin, Robert G. Shatters, Jr., David G. Hall, Ken Hibbard, Ann Fritz. USDA-ARS-USHRL, Ft. Pierce, Florida 34945. lboykin@ushrl.ars.usda.gov
2:15	**Deep mitochondrial divergence in spiders (Araneae: *Homalonychus*) from the Baja Peninsula**	*	Sarah C. Crews, Marshal C. Hedin. UC Berkeley, Division of Insect Biology, 140 Mulford Hall #3114, Berkeley, CA, 94720-3114. screws@nature.berkeley.edu
2:30	**Inferring parameters across phylogeographic datasets using approximate Bayesian computation**		Mike Hickerson, Eli Staul, Craig Moritz. Museum of Vertebrate Zoology, 3101 Valley Life Sciences Building, Berkeley, California 94720-3160 USA. mhick@berkeley.edu
2:45	**Phylogeographic structuring of the Australian magpie (*Gymnorhina tibicen*) due to Pleistocene climate change**	*	Alicia Toon, Jane M. Hughes, A. M. Baker, Peter B. Mather. Centre for Riverine Landscapes, Griffith Univ., Brisbane, 4111, Australia. a.toon@griffith.edu.au

TUESDAY 1:30 – 3:00 Ecological genetics — Wood Center C & D

1:30	**Over the falls? Genetic interactions between anadromous steelhead and resident rainbow trout in a California stream**	Devon E. Pearse, Sean A. Hayes, J. Carlos Garza. NOAA Fisheries, Southwest Fisheries Science Center, 110 Shaffer Road, Santa Cruz, CA 95060. devon.pearse@noaa.gov
1:45	**Environmental and population dependency of genetic variability-fitness correlations in *Rana temporaria***	David Lesbarréres, Craig R. Primmer, Anssi Laurila, Juha Merilä. Dept. Biology, Laurentian Univ., Sudbury, Ontario, P3E 2C6. dlesbarreres@laurentian.ca
2:00	**Differentiation of venoms among populations of predatory marine snails**	Thomas F. Duda, Jr. Univ. Michigan Museum of Zoology, 1109 Geddes Avenue, Ann Arbor, MI 48109. tfduda@umich.edu
2:15	**Genotype x environment interactions and the maintenance of song attractiveness in an acoustic moth**	Anne Danielson-Francois, A. Abramovitz, E. Siegfried, M.D. Greenfield. Ecology and Evolutionary Biology Dept., Rice Univ., PO Box 1892, Houston TX 77251-1892. danielsn@rice.edu

* student presenter

2:30	**Evidence for local adaptation among sockeye salmon (*Oncorhynchus nerka*)**	*	Kristina M. Ramstad, Carol A. Woody, Fred W. Allendorf. Division of Biological Sciences, Univ. Montana, Missoula, MT 59812. kristina.ramstad@mso.umt.edu
2:45	**Patterns in foraging mRNA expression in reproductive and migratory monarch butterflies (*Danaus plexippus*)**	*	Heidi K. Kuster, Jennifer M. Gleason, Orley R. Taylor. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. hkuster@ku.edu

TUESDAY 1:30 – 3:00 Sexual selection — Gruening 208

1:30	**The function of sexually selected, costly colouration in a dimorphic insect**	*	David Punzalan, Locke Rowe, Helen Rodd. Dept. Zoology, Univ. Toronto. punzalan@zoo.utoronto.ca
1:45	**Divergence in Mexican sailfin mollies**	*	Shala J. Hankison. Biological Sciences, Clemson Univ., Clemson, SC 29634. shankis@clemson.edu
2:00	**Natural variation in male-induced cost of mating and its association with male reproductive genes in *D. melanogaster***		Anthony C. Fiumera, Bethany L. Dumont, Andrew G. Clark. Dept. Molecular Biology and Genetics, Cornell Univ., Ithaca, NY 14853. af223@cornell.edu
2:15	**Male post-copulatory reproductive success in the beetle, *Diaprepes abbreviatus***		Laura K. Sirot, H. Jane Brockmann, Stephen L. Lapointe. Dept. Molecular Biology and Genetics, Cornell Univ., Ithaca, NY 14853. ls286@cornell.edu
2:30	**Identification of female *Drosophila melanogaster* spermatheca-specific genes undergoing rapid adaptive evolution**	*	Adrianne M. Prokupek, Lawrence G. Harshman, Andy Clark, Min Zhou, Federico Hofman, Etsuko Moriyama. School of Biological Sciences, Univ. Nebraksa-Lincoln, Lincoln, Ne 68588. aprokup1@bigred.unl.edu
2:45			

TUESDAY 1:30 – 3:00 Co-evolution/Host-parasite interactions — Wood Center Ballroom

1:30	**Bill morphology, niche partitioning, interspecific aggression and the radiation of dabbling ducks**	*	D. Brent Gurd, James K. Kenyon. Biological Sciences, Simon Fraser Univ., Burnaby, B.C. V5A 1S6. dgurd@sfu.ca
1:45	**Limiting cheaters in mutualism: Evidence from hybridization between mutualist and cheater yucca moths**		Kari A. Segraves, David M. Althoff, Olle Pellmyr. Dept. Biological Sciences, Univ. Idaho, Moscow, ID 83844-3051. ksegrave@uidaho.edu
2:00	**The Danish flea beetle *Phyllotreta nemorum*: From parasitoids to a change in host plant use**		Casper J. Breuker, Peter W. de Jong, Kathleen Victoir, Klaas Vrieling, Paul M.Brakefield. Univ. Manchester, Faculty of Life Sciences, Michael Smith Building, Oxford Road, M13 9PT, Manchester. casper.breuker@manchester.ac.uk

2:15	**Evolutionary impact of cytoplasmic sex ratio distorters on host reproductive biology**		Sylvain Charlat, E.A. Hornett, E.A. Dyson, A. Duplouy, S. O'Neill, M. Riegler, N. Wedell, N. Davies, G. Roderick, G. Hurst. Gump station, Univ. California Berkely, BP244 Maharepa, 98728, Moorea, French Polynesia. s.charlat@ucl.ac.uk
2:30	**Parasite virulence and host resistance in a community of three slave-making ants and two hosts**		Jeremy M. Bono. Dept. Biosciences, Simon Fraser Univ., Burnaby, British Columbia CANADA. jeremy_bono@sfu.ca
2:45	**General host-parasite associations and general defenses: Symbionts of the fungus-growing ant *Apterostigma dentigerum***		Nicole M. Gerardo. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. ngerardo@email.arizona.edu

TUESDAY 1:30 – 3:00 Conservation biology — Gruening 306

1:30	**Running in and out of the water: The evolution of Hawai'i's unusual aquatic moths (*Hyposmocoma*)**		Daniel Rubinoff. Dept. Plant and Environmental Protection Sciences, Univ. Hawaii, 310 Gilmore Hall, Honolulu, HI 96822. rubinoff@hawaii.edu
1:45	**Unique genetic patterns of lake-type and sea-/ river-type sockeye salmon involving recently colonized habitat**	*	Scott A. Pavey, Troy R. Hamon, Jennifer L. Nielsen. USGS Alaska Science Center, 1011 E. Tudor Rd., Anchorage, AK 99503. scott_pavey@usgs.gov
2:00	**A cryptic taxon of Galapagos tortoise in conservation peril**		Michael Russello, Scott Glaberman, James P. Gibbs, Cruz Marquez, Jeffrey R. Powell, Adalgisa Caccone. Dept. Ecol. and Evol. Biology, Yale Univ., New Haven, CT 06520. michael.russello@yale.edu
2:15	**Population genetics of a threatened plethodontid salamander**	*	Lauren K. Lucas, Chris C. Nice, Joe N. Fries, Caitlin R. Gabor. Dept. Biology, Texas State Univ.-San Marcos, San Marcos, TX 78666. lucas@txstate.edu
2:30	**Anthropogenic fragmentation selects against specific life and natural history traits**	*	Andrew Van Eck. Dept. Biology, Univ. Washington, 106 Kincaid Hall, Box 351800, Seattle, WA 98195. drewdogy@u.washington.edu
2:45	**The importance of ancient history in forest diversity: The case of the Atinian elm**	*	Pablo Fuentes-Utrilla, C. Collada, A. Soto, M.-T. Cervera, L. Gil. U.D. Anatomía, Fisiología y Genética Vegetal, E.T.S.I. de Montes, Ciudad Universitaria, s/n, 28040 Madrid, España / Spain. p.fuentes@upm.es

TUESDAY 1:30 – 3:00 Molecular evolution — Lee H. Salisbury Theatre

1:30	**Porifera mitochondrial COI intron: A horizontal gene transfer from a fungus donor?**		Chagai Rot, Itay Goldfarb, Micha Ilan, Dorothee Huchon. Tel-Aviv Univ. huchond@post.tau.ac.il
1:45	**Novel SINEs in lizards and snakes: Powerful molecular markers conquer the second class of amniotes**	*	Oliver Piskurek, Christopher Austin, Norihiro Okada. Tokyo Inst. Technology, Yokohama, Japan. piskurek@bio.titech.ac.jp

* student presenter

2:00	**Genetic diversity and evolutionary history of plant defense genes in two species of *Zea***		David A. Moeller, Peter Tiffin. Dept. Plant Biology, Univ. Minnesota, Saint Paul, MN 55108. moell021@umn.edu
2:15	**Tracing coadapted gene complexes to single amino acid substitutions**		J. Scott Harrison, Ronald S. Burton. Marine Biology Research Division, Scripps Institution of Oceanography, UCSD, La Jolla, CA 92093-0202. jsharrison@ucsd.edu
2:30	**Protein evolution in a metabolic network**	*	Kevin M. Wright, Mark D. Rausher. Duke Univ., Dept. Biology, Box 90338, Durham, NC 27708. kmw15@duke.edu
2:45	**Molecular evolution and population genetics of human mtDNA: Insight and application relating to forensic identity testing**		Thomas J. Parsons. Armed Forces DNA Identification Laboratory, 1413 Research Blvd., Rockville, MD USA 20850. parsons@afip.osd.mil

* student presenter

TUESDAY 3:30 – 5:00 Phylogeography — Schaible Auditorium

3:30	**Out of Amazonia again and again: Repeated dispersal across the Andes by a widespread rainforest flycatcher**	*	Matthew J. Miller, Eldredge Bermingham, John Klicka, Febio Raposal do Amaral, Patricia Escalante P. Kevin Winker. Univ. Alaska Fairbanks. ftmjm1@uaf.edu
3:45	**Intercontinental comparison of chloroplast diversity in two Mediterranean-climate *Quercus* species complexes**		Delphine Grivet, Marie-France Deguilloux, Rémy J. Petit, Victoria L. Sork. Ecology and Evolutionary Biology Dept., Univ. California Los Angeles, Los Angeles, CA 90024. dgrivet@ucla.edu
4:00	**Ecological drift and the taxon cycle in the lesser antillean avifauna**	*	Kyle G. Dexter. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27708. kyle.dexter@duke.edu
4:15	**Population genetic analysis along a latitudinal gradient in an estuarine fish**	*	Robert Haney, Brian Silliman, David Rand. Brown Univ., Providence, RI 02912. Robert_Haney@brown.edu
4:30	**Colonization patterns in wormsnails with differing dispersal potential: A Hawaiian tale**	*	Anuschka Faucci, Michael G. Hadfield. Kewalo Marine Lab, Univ. Hawaii Manoa, Honolulu, HI 96813. anuschka@hawaii.edu
4:45	**Coalescent methods and multiple loci suggest recent colonization of North America by Holarctic Gadwall (*Anas strepera*)**	*	Jeffrey L. Peters, Kevin E. Omland. Dept. Biological Sciences, Univ. Maryland Baltimore County, Baltimore, MD 21250. jpeters1@umbc.edu

TUESDAY 3:30 – 5:00 Ecological genetics — Wood Center C & D

3:30	**Genetic structure of the Carolina northern flying squirrel (*Glaucomys sabrinus coloratus*) in the southern Appalachians**	*	Arlena M. Wartell. Inst. Ecology, Univ. Georgia, Athens, GA 30602. awartell@uga.edu
3:45	**Signatures of divergent selection across a genetic cline in the eastern oyster, *Crassostrea virginica***		Matthew P. Hare, Maria Murray, Peter Thompson. Dept. Biology, Univ. Maryland, College Park, MD 20742. matthare@umd.edu
4:00	**The genetics of a species' range: Phylogeographic and intrapopulation diversity patterns in the five-lined skink**	*	Briar J. Howes, Stephen C. Lougheed. Dept. Biology, Queen's Univ., Kingston, ON K7L 3N6. howesb@biology.queensu.ca
4:15	**Cryptic heterogeneity and population estimates: Effects of partial inbreeding**		Douglas G. Scofield. Dept. Biology, Indiana Univ., 1001 E. Third St., Bloomington, IN 37305-7005 USA. scofield@bio.indiana.edu
4:30	**Fluctuating selection and adaptive parent-specific genetic effects in side-blotched lizards**		Andrew G. McAdam, Barry Sinervo. Dept. Fisheries and Wildlife and Dept. Zoology, Michigan State Univ., East Lansing, MI 48824. mcadama@msu.edu

* student presenter

4:45	**Genetic variation and relatedness of grizzly bears in the Prudhoe Bay region of Arctic Alaska**		Matthew A. Cronin, Richard Shideler, Lisette Waits, John Nelson. School of Natural Resources and Agricultural Sciences, Univ. Alaska Fairbanks, Palmer Rsh Ctr, Palmer, AK. croninm@aol.com

TUESDAY 3:30 – 5:00 Sexual selection — Gruening 208

3:30	**The Bateman Continuum along the progression toward isogamy**	*	Adam Bjork, Scott Pitnick. Biology Dept., Syracuse Univ., Syracuse, NY 13244. acbjork@syr.edu
3:45	**Maternal behavior influences expression of a sexually selected trait in a leaf-footed bug**	*	Christine W. Miller. Division of Biological Sciences, Univ. Montana, Missoula, MT 59812. christine.miller@mso.umt.edu
4:00	**Intralocus sexual conflict and the evolution of sexually dimorphic mating signals in *Drosophila serrata***		Stephen F. Chenoweth, M.W. Blows. School of Integrative Biology, Univ. Queensland, St Lucia, Australia, 4072. s.chenoweth@uq.edu.au
4:15	**Condition dependent expression of red color differs between stickleback species**		Jenny Boughman. Dept. Zoology, Univ. Wisconsin-Madison, Madison WI 53706. jboughman@wisc.edu
4:30	**Sensory bias predicts signal divergence in surfperch**		Molly Cummings. Section of Integrative Biology, Univ. Texas Austin. mcummings@mail.utexas.edu
4:45	**Dynamics of genetic divergence by sexual conflict**		Takehiko I. Hayashi, Sergey Gavrilets. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. thayashi@utk.edu

TUESDAY 3:30 – 5:00 Host-parasite interactions — Wood Center Ballroom

3:30	**Host genetic variation and multiple infections in *Daphnia magna***		Holly H. Ganz, Dieter Ebert. ESPM, UC Berkeley, 137 Mulford Hall, Berkeley, CA 94720-3112. hganz@nature.berkeley.edu
3:45	**Parasite-mediated disruptive selection in a natural *Daphnia* population**	*	Meghan A. Duffy, Chad E. Brassil, Spencer R. Hall. Kellogg Biological Station, 3700 E. Gull Lake Drive, Hickory Corners, MI 49060. duffymeg@msu.edu
4:00	**The effect of host heterogeneity and parasite intra-genomic interactions on parasite population structure**		Ruth Hamilton, Mike Boots, Steve Paterson. School of Biological Sciences, Univ. Liverpool, Liverpool, UK. r.hamilton@sheffield.ac.uk
4:15	**Ancestral and novel hosts share oviposition stimulants: Experimental support for chemical facilitation of host shifts**	*	Shannon M. Murphy, Paul P. Feeny. Dept. Ecology and Evolutionary Biology, Cornell Univ., Ithaca, NY, 14853. smm40@cornell.edu
4:30	**Generality of symbiont-mediated resistance to parasitism in *Acyrthosiphon pisum***	*	Kerry M. Oliver, Nancy A. Moran, Martha S. Hunter. Dept. Entomology, Univ. Arizona. kmoliver@email.arizona.edu
4:45	**Rapid evolutionary change in a host-symbiont interaction**		Andrew R. Weeks, William Harcombe, K. Tracy Reynolds, Michael Turelli, Ary A. Hoffmann. CESAR, Dept. Genetics, Univ. Melbourne, Parkville, Victoria 3010, Australia. ary@unimelb.edu.au

* student presenter

TUESDAY 3:30 – 5:00 Conservation biology — Gruening 306

3:30	**Phylogenetic diversity of genera as a new criterion in conservation planning in the Cape flora of South Africa**		Felix Forest, Gail Reeves, Terry Hedderson, Mathieu Rouget, John Manning, Jonathan Davies, Vincent Savolainen. South African National Biodiversity Inst., Kirstenbosch Research Centre. forest@sanbi.org
3:45	**Conservation status and phylogeography of Cowhead Lake tui chubs in the Northern Great Basin**	*	Yongjiu Chen, Stewart Reid, Bernie May. Dept. Animal Science, UC Davis. yzzchen@ucdavis.edu
4:00	**Evaluation of baseline population genetic parameters of Tahoe Basin fish and amphibians using archival specimens**		Evon R. Hekkala, Mark Bagley, Suzanne Jackson, Annette Roth. US EPA 26 Martin Luther King, Cincinnati, OH 45268. Hekkala.evon@epa.gov
4:15	**Examination of genetic structure in a threatened frog species (*Rana boylii*)**		Jennifer Dever, Joseph Poch. Univ. San Francisco, 2130 Fulton Street, San Francisco, CA 94117. dever@usfca.edu
4:30	**An EST-SSR based approach to studying population genetics of an endangered sunflower**	*	Jennifer Ellis, Catherine H. Pashhley, David E. McCauley. Dept. Biological Sciences, Vanderbilt Univ., Nashville, TN 37235. jennifer.ellis@vanderbilt.edu
4:45	**DNA barcoding: Boon or boondoggle?**	*	Zach Gompert, Matt Forister, Jim Fordyce, Chris Nice. Dept. Biology, Texas State Univ.-San Marcos, San Marcos, TX 78666. zg1002@txstate.edu

TUESDAY 3:30 – 5:00 Molecular evolution — Lee H. Salisbury Theatre

3:30	**Altered gene expression in *Drosophila hybrids***		Amanda J. Moehring, Mohamed A. F. Noor. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. ajmoehring@gmail.com
3:45	**Nucleotide sequence variation in 3 loci in cultivated and wild avocados (*Persea americana*)**	*	Haofeng Chen, Peter L. Morrell, Michael T. Clegg. Dept. Ecology and Evolutionary Biology, Univ. California, Irvine, CA 92607. haofengchen@yahoo.com
4:00	**Genome wide analysis of DNA uptake signal sequences in bacteria**		Mohammed Bakkali. Inst. Genetics, Univ. Nottingham, Queen's Medical Centre, Nottingham, NG7 2UH, England. M.Bakkali@nottingham.ac.uk
4:15	**Variability of microsatellites in coding regions of *Dictyostelium discoideum***	*	Clea Scala, Natasha J. Mehdiabadi, Joan E. Strassmann, David C. Queller. Rice University, Ecology and Evolutionary Biology, MS170, 133 Anderson Biolabs, 6100 Main Street, Houston, TX 77005. clea@rice.edu
4:30			
4:45			

* student presenter

Regents Great Hall

Saturday Posters - Undergraduate

S1 **Cooperation and conflict in *Dictyostelium purpureum***

* Dulce Carbajal, Chandra Jack, Joan Strassmann, David Queller. Ecology and Evolution, Rice Univ., Houston, TX 77005. dolcec2003@hotmail.com

S2 **Kin recognition in the social amoeba, *Dictyostelium purpureum***

* Chandra N. Jack, Tiffany Talley-Farnham, Natasha J. Mehdiabadi, Thomas G. Platt, David C. Queller, Joan E. Strassmann. Ecology and Evolutionary, Rice Univ., Houston, TX 77005. chanj@rice.edu

S3 **A new, internet-based software program for estimating effective population size**

* Alec Bennett, Ally Koyuk, David A. Tallmon. Biology Program, Univ. Alaska Southeast, Juneau, AK 99801. alecbennett@hotmail.com

S4 **Evolution of wing shape in Blepharoneura (Diptera: Tephritidae)**

* Sara Marsteller, Darrin Bann, Dean Adams, Matthew Lewis, Sonja Scheffer, Susuan Swensen, Marty Condon. Dept. Biology, Cornell College, Mt. Vernon, IA 52314. s-marsteller@cornellcollege.edu

S5 **Population subdivisions of the cuttlefish Sepia officinalis in the North East Atlantic**

* Mark Joseph Nolte, Marcos Perez-Losada, Keith A. Crandall. 1748 S. 750 East, Orem UT 84097. menolte@hotmail.com

S6 **Development of a microarray for mRNA expression in *Piriqueta caroliniana***

* Heather de Glanville, Mitchell B. Cruzan. Portland State Univ., Dept. Biology, P.O Box 751, Portland, OR 97207. hdeglan@hotmail.com

S7 **Geographic variation for ethanol preference in *Drosophila pseudoobscura***

* Eric T. Watson, Daniel Ortiz-Barrientos, Mohamed A. F. Noor. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, La 70809. ewatso4@lsu.edu

S8 **Nuclear GBSSI sequences suggest hybrid origins for *Mentha canadensis* and *M. spicata***

* Natalina E. Elliott, Jiranan Bunsawat, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., Bowling Green, KY 42101. natalina.elliott@wku.edu

S9 **Characterization of a contact zone between two species of chipmunks (*Tamias*)**

* Alicia M. Hipp, John R. Demboski. Biological Sciences, California Polytechnic Univ. Pomona, Pomona CA 91768. aliciahipp@hotmail.com

S10 **Do migration corridors facilitate the dispersal of invavsive species?**

* Trieste S. Dobberstein, Alisa P. Ramakrishnan. Biology Dept., Portland State Univ., Portland, OR 97201. triested@gmail.com

S11 **Effects of inbreeding on fecundity and heat tolerance of *Heterorhabditis bacteriophora* and *Steinernema carpocapsae***

* John M. Chaston, Adler R. Dillman, Byron J. Adams. Nematode Evolution Laboratory, Brigham Young Univ., Provo, UT 84602. johnnyc@byu.edu

* student presenter

S12	**DNA barcoding and the evolution of a unique breeding system in *Mystrium* ants of Madagascar**	*	Natalie MacCallum, Brian Fisher, Gary Ouellette, Derek Girman. Dept. Biology, Sonoma State Univ. Grahamn@sonoma.edu
S13	**Identification of rapidly evolving proteins in the *Peromyscus* placenta**	*	Edward B. Chuong, Michael J. Dewey, Paul B. Vrana, Hopi E. Hoekstra. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093. echuong@ucsd.edu
S14	**A degenerate PCR survey of L1 element lineages in amphibian and reptilian genomes**	*	Megan E. Galvin, David D. Duvernell. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. mgalvin@siue.edu
S15	**Adaptation of physiochemical properties of competing proteins TNF-a and LTA**	*	Raymond W. Grams II, David A. McClellan. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. rwg24@email.byu.edu
S16	**Complete mitochondrial genome sequences for four bryozoan species**	*	Tori L. Takaoka, Kevin G. Helfenbein, Jeffrey L. Boore, Monica Medina. Joint Genome Inst. and Berkeley Lab, 2800 Mitchell Drive, Walnut Creek, CA 94547. tltakaoka@lbl.gov
S17	**Patterns of selection and phenotypic plasticity of native and novel populations of *Mimulus guttatus***	*	Cynthia Chang, Courtney Murren, Michele Dudash. 4230 Knox Road, 1313A Commons Building One, College Park, MD 20740. cynthiacchang@gmail.com
S18	**Inferring the propensity to invade: Contrasts between sympatric invasive and noninvasive populations of a copepod**	*	Daniel Allen Skelly, Gesche Winkler, Carol Eunmi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI, 53706. daskelly@wisc.edu
S19	**Which markers are best for resolving the phylogeny of Andrena (Hymenoptera: Andrenidae)?**	*	Alicia M. Hodson, Tom Pohl, Leah L. Larkin. Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131. alicia21@unm.edu
S20	**Small-scale phylogeography of Galapagos lava lizards: Patterns of colonization and demographic history**	*	Rebecca Baum, Howard Snell, Jack W. Sites, Edgar Benavides. Brigham Young Univ., Provo, UT 84602. rbaum@email.byu.edu
S21	**Phylogeography of an intertidal barnacle and its gastropod predator in the Gulf of California**	*	Qiming Deng, Chet Fornari, Paula Evans, Wade Hazel. Dept. Biology, DePauw Univ., Greencastle, IN 46135. qdeng@depauw.edu
S22	**Phylogeny of burrowing crayfish of the genus *Fallicambarus***	*	Timothy O'Conner, Keith Crandall. Brigham Young Univ., Provo, UT 84602. tdoconnor@byu.edu
S23	**Taxonomic status and phylogenetic affinity of an invasive blackberry in South Africa**	*	Brittany L. Sutherland, Cheryl Lennox, Lawrence A. Alice. Dept. Biology, Western Kentucky Univ., 1 Big Red Way, Bowling Green, KY 42101. suthebl@wku.edu
S24	**Nucleotide diversity in poplar from Ontario to Alaska's North Slope**	*	Elise K. Glenn, Amy B. Carroll, Adam T. Yeager, Matthew S. Olson. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fsekg@uaf.edu

* student presenter

S25	**Influence of genetic system on the evolution of female preference by the Fisher Process**	*	Fiona Smyth, Kim van der Linde, David Houle. Biological Dept, Florida State Univ., Tallahassee, Fl, 32306. fes4564@fsu.edu
S26	**Geographic variation in the short song of eastern Oregon Brewer's Sparrows**	*	Benjamin Stoner-Duncan. Reed College Portland, OR 97202. benstonerduncan@hotmail.com
S27	**Speciation of non-pollinating fig wasps**	*	Erika Blackwell, Summer Silvieus, George Weiblen. Dept. Biosciences, Simon Fraser Unviversity, Burnaby, BC V5A 1S6. blac0206@umn.edu
S28	**Patterns of gene duplication and natural selection in a mussel gamete recognition gene**	*	Duane Wang, C. Riginos. Dept. Biology, Duke Univ., Durham NC, 27708. dw39@duke.edu
S29	**Latest battle in the "war of the iguanas": Weighing in with nuclear DNA sequence data**	*	Jeff M. Sabey, Larry Buckley, Catherine L. Stephen. Dept. Biology, School of Science and Health, Utah Valley State College, Orem, UT 84058. jeff_sabey@yahoo.com
S30	**Phylogeny of sap beetles (Coleoptera: Nitidulidae): Deciphering patterns of host shifts**	*	Matthew J. Moulton, Andrew R. Cline, Michael F. Whiting. Dept. Integrative Biology, Brigham Young Univ., Provo, Utah. mattmoulton@byu.edu
S31	**Protecting rare *Astragalus* species of the North Rim of the Grand Canyon**	*	Dan Chappell. Dept. Microbiology and Molecular Biology, Brigham Young Univ., Provo, UT 84602. chappell_daniel@hotmail.com

Saturday Posters - 2005 Undergraduate Diversity at SSB/SSE

S32	**Targeting color pattern loci in *Heliconius erato* with Bulk Segregant Analysis**	*	Félix Araújo-Pérez, Riccardo Papa, H. Alejandro Merchán, Karla Maldonado-Mena, Durrell D. Kapan, Owen McMillan. Dept. Biology, Univ. Puerto Rico, Rio Piedras. odiseus35@yahoo.com
S33	**Comparing the human and chimp genomes: Pseudogenation in the chimp**	*	Lee Shoa Long Clarke. Cornell Univ. lc263@cornell.edu
S34	**Contrasting patterns of gene flow and population structure in different mosquito species in the Sonoran Desert**	*	Carlos Flores, Therese Ann Markow. Dept. Ecology and Evolutionary Biology, Univ. Arizona. cfloresl@email.arizona.edu
S35	**Phylogeographic patterns of Caribbean wetland species**	*	Yearim Gutierrez-Cotto, E. Rivera-Ocasio, T.M. Aide, W.O. McMillan. Dept. Biology, Univ. Puerto Rico., Rio Piedras. yearimg@yahoo.com
S36	**Microsatellite fingerprinting of the male hawksbill turtle aggregation on Mona Island, Puerto Rico**	*	A.T. Miró Herrans, X. Velez-Zuazo, W.O. McMillan. Dept. Biology, Univ. Puerto Rico, Rio Piedras. aiditere@hotmail.com
S37	**Findings of glomalin in the epiphytic soils of bromeliads**	*	Linh Vuong, P. Wimberger, J. Espele, T. Wood. Univ. Puget Sound. lvuong@ups.edu
S38	**Evolutionary rates in human disease genes**	*	Leslie Herrmann, Molly Przeworksi. Brown Univ. Leslie_Herrmann@brown.edu

* student presenter

S39	**Prey locating behavior of the common vampire bat (*Desmodus rotundus*)**	*	Joseph W Bahlman, Douglas A. Kelt. Dept. Wildlife, Fish, and Conservation Biology, UC-Davis, Davis, CA 95615. jwbahlman@ucdavis.edu
S40	**Predicting katydid (Tettigoniidae) and grasshopper (Acrididae) abundance in managed conservation reserve program grasslands: A test of the phylogenetic constraintshypothesis**	*	Jerod D. Romine, Jon C. Gering. Biology Discipline, Division of Science, Truman State Univ. Kirksville, MO 63501. d2146@truman.edu
S41	**Reconstructing the phylogeography of the Chilean fish *Trichomycterus aerolatus***	*	Andre Bennin, Evelyn Habit, Pedro Victoriano, Jerald Johnson. Brigham Young Univ., Provo, UT. dre_bennin@byu.edu
S42	**A refuge divided: Phylogeographic structure of the lesser treefrog (*Hyla minuta*) in the Guiana Shield**	*	Monty Hawkins, Brice P. Noonan. Brigham Young Univ., Provo, UT 84602. hmonty@gmail.com
S43	**Population genetics of the origin of weedy rye populations in the Western United States**	*	Sky Lee, Jutta Burger, Norman Ellstrand. Dept. Botany and Plant Sciences, Univ. California-Riverside, Riverside, CA 92521. slee001@student.ucr.edu
S44	**Discovery of host specific tropical fruit flies: Behavioral and molecular evidence**	*	Francisco Serna, Kacie Flaherty, John Gammons, Jessica Johnson, Matt Lewis, Sonja Scheffer, Marty Condon. Dept. Biology, Cornell College. f-serna@cornellcollege.edu
S45	**Mc1r nucleotide variation underlying adaptive coloration in beach mice (*Peromyscus polionotus*)**	*	Linda M. Boettger, Hopi E. Hoekstra. Division of Biological Sciences, Univ. California San Diego, La Jolla, CA 92093. lboettge@ucsd.edu

Saturday Posters - Adaptation

S46	**Resolution of potential ant costs to *Acacia constricta* reproduction**	*	E. Fleur Nicklen, Diane Wagner. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ftefn@uaf.edu
S47	**Adaptive morphological divergence in the Gold-breast Splitfin, *Ilyodon furcidens***	*	Meribeth Huizinga, Cameron K. Ghalambor. Dept. Biology, Colorado State Univ., Fort Collins, CO 80523. Meribeth.Huizinga@colostate.edu
S48	**Spectral iridescence in Coleoptera: Optical mechanisms and evolutionary significance**	*	Ainsley E. Seago. Dept. Environmental Science, Policy, and Management, Univ. California, Berkeley CA 94720-3112. seago@nature.berkeley.edu
S49	**Developmental instability, mutation, and hormesis: Contributors to adaptability in stressful conditions?**		James N. Thompson Jr., R.C. Woodruff, Clayton Hallman, Andrew Miller, Elizabeth Morgan, Diane Jackson, Jeremy Madrid. Dept. Zoology, Univ. Oklahoma, Norman, OK 73019. jthompson@ou.edu
S50	**A case study of a newly duplicated gene and sex-limited expression**	*	J. Roman Arguello. Univ. Chicago, Chicago, IL 60637. arguello@uchicago.edu

S51	**Adaptive responses to flooding conditions within the *Piriqueta caroliniana* complex**	*	Bryan R. Benz. Biology Dept., Portland State Univ., Portland, Oregon 97201. brynbenz@cs.com
S52	**The role of behavior in evolution: An empirical example in a passerine bird**	*	Renee A. Duckworth. Biology Dept., Duke Univeristy, Durham, NC 27708. rad3@duke.edu
S53	**An aquatic experimental system for assessing the relationship between genetic diversity and population persistence**		Jeffrey A. Markert, Mark Bagley, Diane Nacci. Molecular Ecology Research Branch, ORISE/EPA. markert@fastmail.fm
S54	**A model for steep marine clines where coastal currents converge**		Matthew P. Hare, Christopher Guenther, William F. Fagan. Dept. Biology, Univ. Maryland, College Park, MD 20742. matthare@umd.edu
S55	**The effect of herbivory upon raphide levels in fireweed (*Chamerion angustifolium* Onagraceae)**		Todd Schweitzer, Kristina Jones, Robin Bingham, Jennie Reithel. Dept. Natural and Environmental Sciences, Western State College, Gunnison, CO 81231. rbingham@western.edu
S56	**Genetic and environmental influences on latitudinal variation in sexual dimorphism in the medaka fish**		Kazunori Yamahira. Dept. Environmental Science, Niigata Univ. yamahira@env.sc.niigata-u.ac.jp
S57	**Adaptive trait introgression in *Helianthus*: Selection on abiotic traits in experimental hybrids**	*	Rebecca A. Randell, Ken. D. Whitney, Amanda L. Posto, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN 47405. rrandell@indiana.edu

Saturday Posters - Animal mating/breeding systems

S58	**Associative overdominance reduces inbred male fitness and helps maintain androdioecy in the shrimp *Eulimnadia texana***		Stephen C. Weeks, Thomas F. Sanderson. Dept. Biology, The Univ. Akron, Akron, OH 44325-3908. scw@uakron.edu
S59	**Calling behavior differences among the different morphs of the flight-muscle polymorphic cricket *Gryllus firmus***	*	Chandreyee Mitra, William E. Wagner, Jr., Anthony J. Zera, Andrew J. Tyre. School of Biological Sciences, Univ. Nebraska - Lincoln, Lincoln, NE 68588-0118.
S60	**Condition-dependent genetic complementarity in mate choice of a passerine bird**	*	Kevin P. Oh, Alexander V. Badyaev. Univ. Arizona, 1041 E Lowell St, BSW 310, Tucson, AZ 85721-0088. koh@email.arizona.edu
S61	**Survival rate to fledging as a function of clutch size in 60 species of altricious birds from BBIRD database**	*	Jennifer Whittington, Lev Yampolsky, Thomas Martin. Dept. Biological Sciences, East Tennessee State Univ., Johnson City TN 37614-1710. ZJMW33@imail.etsu.edu

Saturday Posters - Behavior/social evolution

S62	**Variation in spatial learning ability of wild Trinidanian guppies**	*	James G. Burns, F. Helen Rodd, James D. Thomson. Dept. Zoology, Univ. Toronto, Toronto ON, Canada. jgburns@zoo.utoronto.ca

* student presenter

S63	**A cost to chimerism in *Dictyostelium discoideum* on natural substrates**	*	David I. Castillo, Ghislaine T. Switz, Kevin R. Foster, David C. Queller, Joan E. Strassmann. Rice Univ., Dept. Ecology and Evolutionary Biology, 6100 Main Street MS 170, Houston, TX 77005. navais@rice.edu
S64	**Mate choice based on call similarity in budgerigars (*Melopsittacus undulatus*)**	*	Marin L Moravec, Nancy T Burley, Georg F Striedter. 321 Steinhaus Hall, Univ. California, Irvine, Irvine, CA 92697. moravecm@uci.edu
S65	**Genetic variation in courtship songs among geographically isolated populations of *Drosophila mojavensis***	*	Ken Over, Cassia Cardoso de Oliveira, Michael G. Ritchie. Univ. Arkansas. cdeolive@uark.edu

Saturday Posters - Conservation biology

S66	**Behavioural responses of bandicoots to the odour of introduced and native Australian predators**	*	Benjamin G. Russell, Peter B. Banks. School of BEES, Univ. NSW, Kensington, NSW 2052. b.russell@student.unsw.edu.au
S67	**Genetic patterns of differentiation in five landbird species from the Queen Charlotte Islands, British Columbia**	*	Carrie M. Topp, Kevin Winker. Univ. Alaska Museum, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fscmn@uaf.edu
S68	**Genetic and demographic factors in the conservation of the alligator snapping turtle**	*	Amaris L. Swann, Lisa M. Meffert. Dept. EEB, Rice Univ., Houston, TX 77005. amswann@rice.edu
S69	**Demographic analysis of a wild lemur population (*Propithecus verreauxi*)**		Richard R Lawler, Alison F Richard, Robert E Dewar, Christine M Hunter, Hal Caswell. Woods Hole Oceanographic Institution. richard.lawler@yale.edu
S70	**Experimental tests of the effects of supportative breeding on wild populations**	*	Autumn N. Hardin, Lisa M. Meffert. Rice Univ., Dept. EEB, Houston, TX 77005. autumn@rice.edu
S71	**Gene flow in populations of Mexican Duck *Anas diazi* of Zacatecano Plateau, Mexico**	*	Marisa M. Reyes, Jose I. Gonzales, Carmen M. de la Peña, Patricio Tavizon. Unidad Académica de Biologica Experimental, Universidad Autonoma de Zacatecas, AP 84, Guadalupe, Zacatecas, Mex. 98600. mmercado@cantera.reduaz.mx
S72	**Monitoring population dynamics of the endangered Amur tiger using molecular scatology**		Rebecca Catapano-Friedman, Liza Young, Dale Miquelle, Adalgisa Caccone, Michael Russello. Dept. Ecol. and Evol. Biology, Yale Univ., New Haven, CT 06520. michael.russello@yale.edu
S73	**Will biodiversity hotspots conserve extra evolutionary history?**		Miles Spathelf, Thomas A. Waite. Ohio State Univ., Columbus, OH 43210. waite.1@osu.edu
S74	**Economic prosperity, biodiversity conservation, and the environmental Kuznets curve**		Julianne Mills, Thomas A. Waite. Ohio State Univ., Columbus, OH 43210. waite.1@osu.edu

Saturday Posters - Invasive species

S75	**The loricariid catfishes in Florida: Systematics and adaptation of exotic species**		Ramon Ruiz-Carus, Harry J. Grier. FWC, Fish and Wildlife Reseach Inst., 100 Eighth Ave. SE, St. Petersburg, FL 33701-5020. ramon.Ruiz-Carus@myfwc.com
S76	**Trapping of aphids (Homoptera: Aphididae) in Alaskan agricultural crops: A preliminary account**		Aaron M. Hagerty, Alberto Pantoja, Todd Adams. USDA-ARS, Subarctic Research Unit, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. ffamh1@uaf.edu
S77	**Zebra mussels and the genus *Dreissena*: Evolution in a cradle of invasive species**	*	Gregory W. Gelembiuk, Gemma E. May, Marina I. Orlova, Vadim E. Panov, Carol Eunmi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI 53706. gelembiu@gwmadison.wisc.edu
S78	**Discovering the origin(s) of a recent and rapidly spreading invasive grass: A phylogegraphic analysis**		David M. Rosenthal, Alisa P. Ramakrishnan, Mitch B. Cruzan. Dept. Biology, Portland State Univ., Portland OR 97207. drosen@pdx.edu
S79	**Estimating genetic diversity of canadian thistle within Theodore Roosevelt National Park**		Jennifer Rothhouse, Tracey A. Bodo Slotta. 1605 Albrecht Blvd., Fargo, ND 58105-5674. slottat@fargo.ars.usda.gov
S80	**The influence of arbuscular mycorrhizal fungi on *Bromus tectorum* and *Pascopyrum smithii* growth and competition**	*	Caley K. Gasch, Robin A. Bingham. Dept. Natural and Environmental Sciences, Western State College, Gunnison, CO 81231. caley.gasch@western.edu

Saturday Posters - Phylogeography

S81	**Phylogeography of Mycorrhizal Hypogeous fungi in Alaska: A molecular approach to the study of mycophagy**	*	B. Luke Bruner, Lee Taylor, Gary Laursen, Link Olson. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ftblb1@uaf.edu
S82	**Geographic structure and evolutionary history of the green iguana, *Iguana iguana***		Catherine L Stephen, CR Hasbun, VH Reyonoso, T Guerra, C Ingram, JF Taylor, SK Davis. Dept. Biology, Utah Valley State College, Orem, UT 84058. stepheca@uvsc.edu
S83	**Origins of the Australian freshwater shrimp genus *Caridina* (Decapoda: Atyidae)**	*	Timothy J. Page, Jane M. Hughes. CRC for Freshwater Ecology, Faculty of Environmental Sciences, Griffith Univ., Nathan, QLD, 4111, Australia. t.page@griffith.edu.au
S84	**Phylogeographic history and parallel evolution in a complex of Appalachian salamanders**	*	Nathan D. Jackson, Joe Bernardo, Keith A. Crandall. Museum of Natural Science and Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. njacks4@lsu.edu
S85	**Phylogeography and genetic structure of the Patagonian lizard *Cnemidophorus longicaudus* (Squamata, Teiidae)**	*	Martha M. Yoke, Mariana Morando, Luciano J. Avila, Jack W. Sites, Jr. Dept. Integrative Biology, Brigham Young Univ., Provo, UT 84602. martha.yoke@gmail.com

* student presenter

S86	**Intriguing pattern of genetic divergence in a Malagasy frog**	*	Melissa M. Burns, John E. Cadle, Roberta J. Mason-Gamer. Univ. Illinois at Chicago, Dept. Biological Sciences, M/C 066, 845 West Taylor Street, Chicago, IL 60607. mburns7@uic.edu
S87	**Phylogeography and *Wolbachia* infection status in the leafminer *Liriomyza sativae* (Diptera: Agromyzidae)**		Matthew L. Lewis, Sonja J. Scheffer. Systematic Entomology Lab, USDA-ARS, Bld. 005, Rm. 137, BARC-W, 10300 Baltimore Av., Beltsville, MD 20705. mlewis@sel.barc.usda.gov
S88	**Phylogeography of Merriam's chipmunk and possible zones of hybridization**	*	Kevin W. Ellis, John R. Demboski. California State Polytechnic Univ., Pomona, Pomona, CA 91768. kwellis@csupomona.edu
S89	**Global ocean model and molecular genetic analyses identify multiple introductions of cryptogenic species**		Michael N Dawson, Alex Sen Gupta, Matthew H. England. Evolution and Ecology, Univ. California, Davis, CA 95616. mndawson@ucdavis.edu
S90	**Historical biogeography of the Alexander Archipelago**	*	Andrew G. Hope, Natalie G. Dawson, Steve O. MacDonald, Joseph A. Cook. Dept. Biology and Museum of Southwestern Biology, Univ. New Mexico, Albuquerque, New Mexico 87131. ahope@unm.edu
S91	**Comparative phylogeography and historical demography in endemic weevils from the Galapagos archipelago**		Sayantani Bhattacharya, Andrea Sequeira. Wellesley College, Wellesley MA 02481. asequeir@wellesley.edu
S92	**Postglacial expansion of threespined stickleback populations in Scotland: Analysis of mitochondrial DNA**		Gillian Rhett, Ripan Malhi, Alison Bell. Trace Genetics, 4655 Meade Street, Suite 300, Richmond, CA 94804, USA. gillian@tracegenetics.com
S93	**Phylogeograpic structure of the fire ant *Solenopsis invicta* in its native South American range**		Michael E. Ahrens, D. DeWayne Shoemaker. Dept. Entomology, Univ. Wisconsin, Madison, WI 5306. dshoemak@entomology.wisc.edu
S94	**Multilocus population genetics and phylogeography of Australian Treecreepers (*Climacteris picumnus* and *melanura*)**		Nancy Rotzel, Scott Edwards, Peter Beerli. Harvard Univ., Museum of Comparative Zoology Labs, 26 Oxford Street, Cambridge MA 02138. nrotzel@oeb.harvard.edu
S95	**Ancient DNA reveals dynamic genetic structure in a montane ground squirrel**	*	Kim O' Keefe, Marcel van Tuinen, Elizabeth Hadly. Dept. Biological Sciences, Stanford Univ. mvtuinen@stanford.edu
S96	**Molecular divergence and morphological stasis among populations of sexually dimorphic stalk-eyed flies**		John G. Swallow, Lisa E. Wallace, Sarah J. Christianson, Philip M. Johns, Gerald S. Wilkinson. Dept. Biology, Univ. South Dakota, Vermillion, SD 57069. jswallow@usd.edu
S97	**Ecological equivalence 'distance': Quantifying the 'barrier' effect of mountains**	*	Gabriela Ibarguchi. Dept. Biology, Queen's Univ., Kingston, ON, K7L 3N6. gibarguchi@biology.ca
S98	**Comparative phylogeography of some West Coast Chiton (Mollusca: Polyplacophora) species**	*	Ryan P. Kelly, Douglas J. Eernisse. Columbia Univ. and American Museum of Natural History, New York, NY, 10025. rpk2001@columbia.edu

* student presenter

S99	**Transberingian colonizations, glacial refugia and the evolutionary history of North American Mustelinae**		Melissa A. Fleming, Joseph A. Cook. Museum of Southwestern Biology, Univ. New Mexico, Albuquerque, NM 87131. maflemin@myuw.net
S100	**Phylogenetic resolution of North American *Colias* species complexes using mtDNA genes**		Chris W. Wheat, Ward B. Watt. Dept. Biological Sciences, 371 Serra Mall, Stanford Univ., Stanford, CA 94305-5020 USA. wbwatt@stanford.edu
S101	**Geographic partitioning of genetic variation in a dominant riparian tree: *Populus fremontii***	*	Barbara Honchak, Gery Allan, Thomas Whitham, Stephen Shuster, Paul Keim. 1550 N. Fort Valley Rd. Apt. 5 Flagstaff Az 86001. bmh43@dana.ucc.nau.edu

Saturday Posters - Plant mating systems

S102	**Selfing, inbreeding depression, and autopolyploid establishment**	*	Joseph H. Rausch, Martin T. Morgan. School of Biological Sciences, Washington State Univ., Pullman, WA 99164-4236. jrausch@wsu.edu
S103	**Molecular evolution of S locus in Alaskan *Arabidopsis lyrata***		Naoki Takebayashi, Diana Wolf. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffnt@uaf.edu
S104	**Quantifying the effect of pollinator sharing on plant mating patterns: A multi-species approach**	*	Rebecca J. Flanagan, Jeffrey D. Karron, Randall J. Mitchell, John M. Bell. Dept. Biological Sciences, Univ. Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. flanaga2@uwm.edu

Saturday Posters - Population genetics

S105	**Mixed-stock analysis of harbor porpoises (*Phocoena phocoena*) along the U.S. mid-Atlantic coast using microsatellite DNA**	*	Kristine O. Hiltunen, Patricia E. Rosel. College of Charleston, Charleston, SC and NOAA Fisheries, Southeast Science Fisheries Center, Lafayette, LA. kristine.hiltunen@noaa.gov
S106	**Population genetics of spiny spider crabs in Spain**		Graciela Sotelo, Paloma Moran, David Posada. Facultad de Biologica, Universidad de Vigo, 36310 Vigo, Spain. dposada@uvigo.es
S107	**A test of divergence across ecotones: Forest and grassland forms of the deer mouse, *Peromyscus maniculatus***		Jay F. Storz. Dept. Biology, Univ. Nebraska. storz@sfsu.edu
S108	**Fine-scale genetic structure and gene flow in four populations of northern foxtail pine**	*	Andrew J. Eckert, Melissa L. Eckert, Seungyoo Hwang, Joy K. West, Benjamin D. Hall. Dept. Biology, Univ. Washington, Seattle, WA 98195. aje2@u.washington.edu
S109	**Determining genetic structure of the foothill yellow-legged frog (*Rana boylii*) using RAPD markers**	*	Joseph A Poch, Jennifer A Dever. Univ. San Francisco, 2130 Fulton St, San Francisco, CA 94117. jpoch@usfca.edu

S110	**Population genetics of *Terebratella sanguinea* in the New Zealand fiords: Structure and potential hydrographic influences**		Gigi Ostrow, Steve Wing. Dept. Zoology, Univ. Florida, Gainesville, FL 32611. ostrowdg@ufl.edu
S111	**Population genetics and phylogenetic position of the endangered Illinois cave amphipod *Gammarus acherondytes***		Michael P. Venarsky, Frank E. Anderson, Waleed Abbasi, Frank M. Wilhelm. Dept. Zoology, Southern Illinois Univ., Carbondale, IL 62901. feander@siu.edu
S112	**Patterns of DNA sequence variation in *Drosophila mauritiana***		Richard M. Kliman. Dept. Biological Sciences, Cedar Crest College, Allentown, PA 18104. rmkliman@cedarcrest.edu
S113	**Genome wide comparison of human polymorphism and human-chimpanzee divergence to detect natural selection**	*	Jun Gojobori, Chung-I Wu. Ecology and Evolution, Univ, of Chicago, Chicago, IL 60637. jgojobor@uchicago.edu
S114	**Population genetic structure of the Atlantic coastal killifish, *Fundulus heteroclitus***	*	James B. Lindmeier, Stephanie M. Adams, David Duvernell. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. lindmejb@slu.edu
S115	**ISSR variation in *Campanula americana* in southwestern Virginia**		R. Deborah Overath, David J. Grise. Dept. Biology, Radford Univ., Radford, VA 24142. rdoverath@radford.edu
S116	**The influence of premeiotic clusters of mutation on linkage disequilibrium**		Ronny C. Woodruff, Priti Azad, James N. Thompson, Jr. Dept. Biological Sciences, Bowling Green State Univ., Bowling Green, OH 43403. rwoodru@bgnet.bgsu.edu
S117	**Performance of the composite-likelihood estimator of the recombination rate under complex substitution models**		Antonio Carvajal-Rodriguez, Keith A. Crandall, David Posada. Dept. Integrative Biology, BYU, Utah USA. ac549@email.byu.edu
S118	**Fine scale population genetics of copper rockfish in Oregon: The role of biogeographic breaks vs isolation by distance**		Vincent Buonaccorsi, Mattias Johansson, Michael Banks, Heather Hassel, Katey Glunt. Juniata College. buonaccorsi@juniata.edu
S119	**Multiple stresses and longevity in *Drosophila melanogaster* by quantitative genetic analysis**	*	Meihui Wang, Yue Wang, Sharleen Boerher, Stephen D. Kachman, Lawrence G. Harshman, Sergey V. Nuzhdin. School of Biological Sciences, Univ. Nebraska-Lincoln, Lincoln, NE 68588. mhwang@bigred.unl.edu

Saturday Posters - Species interaction

S120	**Experimental and phylogenetic evidence for low host specificity in a fungal parasite of leaf-cutter ant gardens**	*	Stephen J. Taerum, Cameron R. Currie. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. staerum@ku.edu
S121	**Ecology, evolution, and behavior at the Georgia Institute of Technology**		Michael A. D. Goodisman. Georgia Inst. Technology, Atlanta, GA 30332. michael.goodisman@biology.gatech.edu

* student presenter

S122 Safe hotel, but no breakfast: Pollinator-mediated selection on floral size of *Oncocyclus irises*

Yuval Sapir, Lilach Hadany. Dept. Biology, Indiana Univ., Bloomington, IN 47401. ysapir@indiana.edu

S123 Partner variability and fitness in a natural community of Legumes and Rhizobia

* Katy D. Heath, Peter Tiffin. Dept. Plant Biology, Univ. Minnesota, St. Paul, MN 55108. heat0059@umn.edu

S124 Simultaneous evolution of drought tolerance and defense against herbivores in *Boechera strica*, a close wild relative of *Arabidopsis*

Lexi Steffes, Riston Haugan, Joy Wolf, David Siemens. Biology, Black Hills State Univ., Spearfish, SD 57709. davidsiemens@bhsu.edu

Regents Great Hall

Monday Posters - Bioinformatics/phyloinformatics

M1	**Statistical approaches for DNA barcoding**		Rasmus Nielsen, Mikhail Matz. Whitney Laboratory for Marine Bioscience, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, Florida 32080. matz@whitney.ufl.edu
M2	**Pipelined scientific workflows for inferring evolutionary relationships**		Timothy M. McPhillips. Natural Diversity Discovery Project, 1163 Yarwood Ct., San Jose, CA 95128. tmcphillips@naturaldiversity.org
M3	**Ramble: The adaptive evolution simulator**	*	Jennifer Commins, James O. McInerney. Bioinformatics Laboratory, National Univ. Ireland Maynooth, Maynooth, Co. Kildare, Ireland. jennifer.commins@nuim.ie
M4	**Comparative analysis of the *Saccharomyces cerevisiaeand Caenorhabditis elegans* protein interaction networks**	*	Ino Agrafioti, Jonathan Swire, James Abbott, Derek Huntley, Sarah Butcher, Michael P.H. Stumpf. Centre of Bioinformatics, Biochemsitry Building, Imperial College London, South Kensington Campus, London, SW7 2AZ, UK. ino.agrafioti@ic.ac.uk
M5	**Protein interaction function and evolutionary constrains**		Eric de Silva, Michael Stumpf. Centre for Bioinformatics, Imperial College, London. e.desilva@ic.ac.uk
M6	**A new diversity metric clarifies the roles of biogeography and habitat in structuring marine microbial communities**	*	Catherine A. Lozupone, Rob Knight. Univ. Colorado, MCD Biology, Boulder, Colorado 80309. lozupone@colorado.edu

Monday Posters - Comparative biology

M7	**Carrying a large load: Are female iguanas performance limited by large reproductive mass?**	*	Marguerite A. Butler. Dept. Ecology and Evolutionary Biology, Univ. Tennessee, Knoxville, TN 37996-1610. mabutler@utk.edu
M8	**Evolution of snake vision: Cloning of long-wavelength visual pigments from the garter snake (*Thamnophis*)**		Johannes Mueller, Mengshu Xu, Dimitra Kovolos, Belinda Chang. Dept. Zoology, Univ. Toronto, 25 Harbord Street, Toronto, ON M5S 3G5, Canada. jmuller@utm.utoronto.ca
M9	**Bowerbird SWS1 opsins: A comparative analysis of vertebrate UV/violet vision**	*	Ilke van Hazel, Karolina Jonsson, Dimitra Kolovos, Lainy Day, John Endler, Belinda Chang. Dept. Zoology, Univ. Toronto, Toronto, ON, Canada, M5S 3G5. ilke@zoo.utoronto.ca
M10	**Quantifying morphological diversity to test hypotheses about Tanganyika and Malawi cichlids**	*	Prosanta Chakrabarty. Univ. Michigan Museum of Zoology, Fish Division, 1109 Geddes Ave., Ann Arbor, MI 48109. pchakrab@umich.edu

* student presenter

M11	**Evolution of an environmentally directed trait: Comparative morphology of the shrew mandible**	*	Rebecca L. Young, Alexander V. Badyaev. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. rlyoung@email.arizona.edu

Monday Posters - Development and evolution

M12	**Erythrocyte metamorphosis in a paedomorphic salamander: Does the axolotl hemoglobin transition require thyroid hormone?**	*	Amy K. Samuels, S. Randal Voss. Dept. Biology, Univ. Kentucky, Lexington, KY 40506. aksamu2@uky.edu
M13	**The variation in the copy number of flowering related genes in the family Chenopodiaceae**		Helena Storchova, Jan Kolář. Inst. Exp.Botany, Prague, 16500 Czech Rep.; Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. storchova@ueb.cas.cz
M14	**Evolution of downstream targets of ultrabithorax between *D. melanogaster* and *D. pseudoobscura***		Maximilian O. Kauer, Jane Kim, Kevin P. White. Yale School of Medicine, Dept. Genetics, New Haven, CT 06510. max.kauer@yale.edu
M15	**Polyp and medusa development in *Podocoryna carnea***		Diane M. Bridge, Molly M. Rorick, Sophia Maund, Spenser McKinstry, Daniel E. Martinez. Dept. Biology, Pomona College, Claremont, CA 91711. DEM04747@pomona.edu
M16	**Did mechanisms regulating angiogenesis arise early? Expression of HIF-1 alpha and VEGF/PDGF genes in a cnidarian**		Diane M. Bridge, Anne A. Gordon, Heather House, Amie L. Shaffer. Dept. Biology, Elizabethtown College, Elizabethtown, PA 17022. bridged@etown.edu
M17	**How similar morphogenetic process does not equal parallel patterns of phenotypic change**		Michael L. Collyer, Dean C. Adams. Iowa State Univ., Dept. Statistics, Dept. Ecology, Evolution, and Organismal Biology, Ames, IA 50011. collyer@iastate.edu
M18	**Genomic approaches to the study of flowering time in *Aquilegia***	*	Evangeline S. Ballerini, Billie Gould, Elena M. Kramer. Dept. Organismic and Evolutionary Biology, Harvard Univ., Cambridge, MA 02138. eballerini@oeb.harvard.edu
M19	**Comparing functional and developmental hypotheses for floral trait correlation patterns in *Leavenworthia torulosa***	*	Ingrid A. Anderson. Biology Dept., Indiana Univ., 1001 East Third Street, Bloomington, IN 47405. ianderso@bio.indiana.edu
M20	**Mullerian mimicry genes; Third generation of a high resolution linkage map of *Heliconius erato* using AFLP#8217;s**	*	Kélitt Santiago-Berríos, Karla Maldonado-Mena, Riccardo Papa, H. Alejandro Merchán, Félix Araújo-Pérez, Yahdi Cotto-Jorge, Owen McMillan. Univ. Puerto Rico, Rio Piedras Campus. kelitt@yahoo.com

Monday Posters - Ecological genetics

M21	**The signature of selection in natural populations of the homoploid hybrid species *Helianthus deserticola***	*	Briana L. Gross, Loren H. Rieseberg. Indiana Univ., Bloomington, Indiana 47405. brgross@indiana.edu

M22	**Mc1r is not responsible for coat color variation in pocket gophers**	*	Gabriela Wlasiuk, Michael W. Nachman. Ecology and Evolutionary Biology Dept., Univ. Arizona, 1041 E Lowell St, Tucson, AZ 85721. wlasiuk@email.arizona.edu
M23	**Conservation and divergence of flowering time gene expression in wild and domesticated sunflower**	*	Benjamin K. Blackman, Scott D. Michaels, Loren H. Rieseberg. Dept. Biology, Indiana Univ., Bloomington, IN 47405. bkblackm@indiana.edu
M24	**Genetic signature of ecological selection for salt tolerance in a wild sunflower hybrid species: *Helianthus paradoxus***	*	Cecile Edelist, Christian Lexer, Christine Dillmann, Delphine Sicard, Loren H. Rieseberg. UMR de Génétique Végétale (INRA / Univ. Paris XI / CNRS / INA PG), Ferme du Moulon, 91190 Gif-sur-Yvette, France. edelist@moulon.inra.fr
M25	**Characterization of guppy LWS opsins: Multiple opsins found in a single individual**	*	Cameron J. Weadick, D. Kolovos, S. Lazic, H. Rodd, B.S.W. Chang. Dept. Zoology, Univ. Toronto, Toronto, Ontario, Canada, M5S 3G5. cameron.weadick@utoronto.ca
M26	**Small-scale genetic structure in the sea palm *Postelsia palmaeformis***		J. Timothy Wootton, Catherine A. Pfister, Handojo T. Kusumo, Richard R. Hudson. Univ. Chicago. twootton@uchicago.edu
M27	**Relative reproductive success with assignment error corrections and its application to steelhead trout**		Hitoshi Araki, Michael Blouin. Dept. Zoology, Oregon State Univ., Corvallis, OR 97331. arakih@science.oregonstate.edu
M28	**Molecular and quantitative genetic divergence among population with known evolutionary histories**		Theodore J. Morgan, Marc A. Evans, Theodore Garland Jr., John G. Swallow, Patrick A. Carter. Dept. Genetics, North Carolina State Univeristy, Raleigh, NC 27695-7614. tjmorgan@unity.ncsu.edu
M29	**Genetics of burrow building in *Peromyscus***	*	Jesse N. Weber, Hopi E. Hoekstra. Division of Biology, Univ. California-San Diego, La Jolla, CA 92093-0116. jnweber@ucsd.edu
M30	**Comparative genetic structure of the female hawksbill sea turtle (*Eretmochelys imbricata*) populations within several nesting seasons in Mona Island, Puerto Rico**	*	Xaymara Serrano, Ximena Vélez, Willy Ramos, Aida Miro, Owen McMillan. Dept. Biology, Univ. Puerto Rico. serranox@gmail.com

Monday Posters - Ecology and evolution of disease

M31	**Evolution of parasite reproductive rate in response to experimental manipulation of population structure**		Farrah Bashey, Curt Lively. Dept. Biology, Indiana Univ., Bloomington IN 47405. fbasheyv@indiana.edu
M32	**Evolutionary genetics of the Treponema pallidum subspecies: Phylogeny, origins, and possible functional differences**	*	Kristin N. Harper, Paolo Ocampo, Bret M. Steiner, Robert W. George, George J. Armelagos. Population Biology, Ecology and Evolution, Emory Univ., Atlanta, GA 30322. knharpe@emory.edu

* student presenter

M33	**White mold in the cold: *Sclerotinia sclerotiorum* on Alaskan crops**		Loretta M. Winton, Roseann Leiner. 303 O'Neil Bldg UAF, Fairbanks, AK 99775. lori.winton@uaf.edu
M34	**How does host environment affect parasite growth in the desert toad, *Scaphiopus couchii*?**	*	Tatiana Vasquez, Karin Pfennig. Dept. Biology, CB # 3280, Coker Hall, Univ. North Carolina, Chapel Hill, NC 27599. tvasquez@email.unc.edu

Monday Posters - Education

M35	**Integrating inquiry and phylogenetic analyses into traditional introductory biology survey laboratories**		Jeffrey McKinnon, Kerry Katovich, Neil Sawyer. Biological Sciences, Univ. Wisconsin-Whitewater. mckinnoj@uww.edu
M36	**They think what? Capturing and using student ideas in the non-majors classroom**		Josepha Kurdziel. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. josephak@umich.edu
M37	**Helping students learn to question**	*	Corinna N. Ross, Angela Zabawa, Diandra Leslie-Pelecky. Biological Sciences, Univ. Nebraska, Lincoln, NE 68588. cross@bigred.unl.edu
M38	**A student-initiated seminar promotes collaborative learning and research**	*	Elizabeth A. Perotti, Jann E. Vendetti, Simon N. Sponberg, Ryan I. Hill, Nathaniel M. Hallinan, Charles L. Nunn. Dept. Integrative Biology, U.C. Berkeley, Berkeley, CA 94720. marinelizard@berkeley.edu

Monday Posters - Evolutionary theory

M39	**Phenotypic plasticity promotes the evolution of warning coloration**		Dennis J. Fielding, Gregory A. Sword. Subarctic Agricultural Research Unit, USDA-ARS, P.O. Box 757200, Fairbanks, AK 99775. ffdjf1@uaf.edu
M40	**Rates and dates of avian ordinal molecular evolution**	*	Joseph W. Brown, Joshua S. Rest, Jaime Garcia-Moreno, Michael D. Sorenson, David P. Mindell. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. josephwb@umich.edu
M41	**Coalescent time and size with strong selection**		R. B. Campbell. Dept. Mathematics, Univ. Northern Iowa, Cedar Falls, IA 50614-0506. campbell@math.uni.edu

Monday Posters - Genomics/proteomics

M42	**Rapid evolution of gene expression during habitat invasions by the copepod *Eurytemora affinis***	*	Brian D. Eads, Gregory W. Gelembiuk, Carol Eunmi Lee. Dept. Zoology, Univ. Wisconsin - Madison, Madison, WI 53706. gelembiu@gwmadison.wisc.edu

M43	**PhIGs: A resource for whole genome evolutionary analysis**		Paramvir Dehal, Jeffrey L. Boore. Dept. Evolutionary Genomics, Joint Genome Inst., Walnut Creek, CA 94598. JLBoore@calmail.berkeley.edu
M44	**Natural selection in the mycoplasma genome: Cellular process genes**		Walter J. Diehl. Dept. Biol. Sci., Mississippi State Univ., Mississippi State, MS 39762. wdiehl@biology.msstate.edu
M45	**The complete chloroplast genome sequence of *Ginkgo biloba* and its comparison with other seed plant plastid genomes**	*	Joshua Leigh, Jennifer V. Kuehl, Jeffrey L. Boore, Linda A. Raubeson. Dept. Biological Sciences, Central Washington Univ., Ellensburg, WA 98926. LeighJ@cwu.edu

Monday Posters - Hybridization

M46	**Selection against crop alleles in crop-wild sunflower hybrid zones**		Tanya Henderson, Eric Baack, Loren Rieseberg. Dept. Biology, Indiana Univ., 1001 E 3rd St, Bloomington, IN 47405. ebaack@indiana.edu
M47	**Evolution of breeding systems and ploidy levels in *Primula* sect. *Aleuritia*: A paradigm of the secondary contact model**	*	Alessia Guggisberg, Sylvia Kelso, Elena Conti. Inst. Systematic Botany, Univ. Zurich, Zollikerstrasse 107, CH-8008 Zurich, Switzerland. alg@systbot.unizh.ch
M48	**MAMA: A simple and universal method for identifying divergent mtDNA haplotypes**	*	Johan Lindell, Robert W. Murphy. Dept. Natural History, Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario, M5S 2C6, Canada. johan.lindell@utoronto.ca
M49	**Hybridization and introgression between two killifish species, *Fundulus notatus* and *F. olivaceus***		David D. Duvernell, Jacob F. Schaefer. Dept. Biological Sciences, Southern Illinois Univ. Edwardsville, Edwardsville, IL 62026. dduvern@siue.edu
M50	**Hybridization reticulate gene flow between Lesser and Greater Scaup**	*	Christopher P. Barger, Alan D. Afton, Michael J. Anteau, Andre Breault, Robert G. Clark, Johann Walker, Kevin G. McCracken. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. fscpb1@uaf.edu

Monday Posters - Invertebrates

M51	**Documentation of beneficial insects associated with Alaskan agricultural arops: A preliminary account**		Aaron M. Hagerty, Alberto Pantoja, Todd Adams. USDA-ARS Subarctic Agricultural Research Unit, Univ. Alaska, Fairbanks, Fairbanks, AK 99775. ffamh1@uaf.edu
M52	**Color polymorphism in a leafcutting ant, *Atta cephalotes***	*	Scott E. Solomon. Section of Integrative Biology, The Univ. Texas at Austin, 1 Univ. Station, C0930, Austin, TX 78712. ssolomon@mail.utexas.edu
M53	**Yellowjackets in Alaska**		Todd B. Adams, Peter J. Landolt, Alberto Pantoja, Aaron M. Hagerty. USDA-ARS Subarctic Research Unit, Fairbanks, AK 99775. fntba@uaf.edu

* student presenter

M54	**Population genetics of Asterinid sea stars**	*	Carson C. Keever, Mike W. Hart. Biological Sciences 8888 Univeristy Dr., Simon Fraser Univ., Burnaby B.C., Canada V5A-1S6. ckeever@sfu.ca

Monday Posters - Life history evolution

M55	**Age specific survivorship of *Drosophila mojavensis* reared on different host cacti**	*	Luciano M. Jaureguy, William J. Etges. Dept. Biological Sciences, Univ. Arkansas, Fayetteville, AR 72701. ljaureg@uark.edu
M56	**Senescence rates of sockeye salmon as an adaptation to the intensity of bear predation**		Stephanie M. Carlson, Thomas P. Quinn, Andrew P. Hendry, Raymond Hilborn. Redpath Museum and Dept. Biology, McGill Univ., 859 Sherbrooke St. W., Montreal, Quebec, H3A 2K6 Canada. andrew.hendry@mcgill.ca
M57	**Evidence of polyspermy in hybrids of three sympatric broadcast spawning sea urchins**	*	Nicole D. Fogarty, Casey P. terHorst, Don R. Levitan. Florida State Univ., Biological Science Dept., Tallahassee, Florida 32306-1100. fogarty@bio.fsu.edu
M58	**Response to artificial selection on egg size in the serpulid polychaete *Hydroides elegans***	*	Cecelia M. Miles, Marta L. Wayne. Univ. Florida, Dept of Zoology, Gainesville, FL 32611. cmiles@zoo.ufl.edu
M59	**Geographic parthenogenesis in a lichenized-fungus: Implications for measuring fitness**	*	Heather B. Jackson, Larry St. Clair. Dept. Biological Sciences, Louisiana State Univ., Baton Rouge, LA 70803. hjacks1@lsu.edu
M60	**Sexual dimorphism in cottontails (*Sylvilagus*): Has evolution produced larger females or smaller males?**	*	Candace Davis, V. Louise Roth. Dept. Biology, Duke Univ., Box 90338, Durham, NC 27704. cmd14@duke.edu
M61	**Can hybridization lead to greater evolvability?**	*	Lesley G. Campbell, Allison A. Snow, Julie M. Ketner, Patricia M. Sweeney. Dept. Evolution, Ecology and Organismal Biology, Ohio State Univ., 318 W 12th Ave, Columbus, OH, 43210. campbell.633@osu.edu

Monday Posters - Molecular evolution

M62	**Molecular evolution of an imprinted gene in *Arabidopsis lyrata***		Diana Wolf, Naoki Takebayashi, Dane Salter, Lacie Jo Westbrook. Inst. Arctic Biology, Univ. Alaska Fairbanks, Fairbanks, AK 99775. ffdew2@uaf.edu
M63	**Brindging the gap between the origins of earth and the RNA world**		Matthew Carrigan, Alonso Ricardo, Steven Benner. Dept. Chemistry, Univ. Florida, Gainesville, FL 32611. mcarriga@ufl.edu
M64	**Evolution of structure and function in insect mitochondrial genomes**	*	James B. Stewart, Andrew T. Beckenbach. Dept. Molecular Biology and Biochemistry, Simon Fraser Univ. Burnaby, BC, Canada V5A 1S6. jbs@sfu.ca

* student presenter

M65	**Substantial length variation in the paternally inherited mitochondrial COII protein-coding extension**		Jason P. Curole, Jennifer Walker, W. Randy Hoeh. Dept. Biology, Univ. Southern California, Los Angeles, CA. jcurole@usc.edu
M66	**Genome evolution and effective population size estimates based on nuclear versus mitochondrial DNA**	*	Sarah Schaack, Britt Koskella, Michael Lynch. Indiana Univ., Bloomington, IN 47405. schaack@indiana.edu
M67	**Diversity and evolution of coral fluorescent proteins**		Naila Alieva, Ella Meleshkevitch, Karen Konzen, Steven Field, Jewell Walters, Mikhail Matz. Whitney Laboratory for Marine Bioscience, Univ. Florida, 9505 Ocean Shore Blvd, St. Augustine, Florida 32080. nalieva@whitney.ufl.edu
M68	**Evolution of tandem repeat regions in *Burkholderia pseudomallei***	*	Jana U'Ren, J. Schupp, T. Pearson, R. Leadem, S. Kachur, S. Georgia, B. Leadem, M. Mayo, D. Gal, B. Currie, P. Keim. Keim Genetics Lab, Northern Arizona Univ., Flagstaff, AZ 86011. Jana.URen@nau.edu
M69	**Codon capture in hemichordates revisited**		Michael J. Smith, Karen Beckenbach, Andrea Scouras. Weill Cornell Medical College in Qatar, P.O. Box 24144, DOHA QATAR. mis2038@qatar-med.cornell.edu
M70	**Molecular evolution and UV exposure: Rate acceleration in the open ocean**	*	Jeremy R. DeWaard, T. Ryan Gregory, Paul D.N. Hebert. Biodiversity Inst. Ontario, Univ. Guelph, Guelph, ON N1G 2W1. jdewaard@uoguelph.ca
M71	**Crinoid mitochondrial genomes: Signature nucleotide bias and novel gene rearrangements**	*	Andrea Scouras, Michael J. Smith. Dept. Molecular Biology and Biochemistry, Simon Fraser Univ., 8888 Univ. Dr., Burnaby BC, Canada, V5A 1S6. ascouras@sfu.ca
M72	**Cryptochrome genes in land plants: An example of nuclear gene evolution**		Kenneth G. Karol, Dina F. Mandoli, Richard G. Olmstead. Dept. Biology, Univ. Washington, Seattle, WA 98195. kkarol@u.washington.edu
M73	**Molecular phylogeny of the telomere-associated transposable element, HeT-A, in *Drosophila***		Kenneth Lindley, Jennifer Bambrick, Jonathan B. Clark. Dept. Zoology, Weber State Univ., Ogden, UT 84408-2505. jclark1@weber.edu

Monday Posters - Mutation

M74	**Direct estimate of mutation rate in Caenorhabdite nematodes**		Naomi Phillips, Gigi Ostrow, Charles Baer. Zoology Dept., Univ. Florida. naomip@zoo.ufl.edu
M75	**Estimation of microsatellite mutation rates in *Arabidopsis thaliana***	*	Tara N. Marriage, John K. Kelly, Maria E. Orive. Dept. Ecology and Evolutionary Biology, Univ. Kansas, Lawrence, KS 66045. tmarria@ku.edu

* student presenter

M76	**Comparative evolutionary genetics of spontaneous mutations affecting body size in rhabditid nematodes**		Gigi Ostrow, J. Rosenbloom, A. Avalos, T. Keller, A. Boggs, L. Levy, D. Appel, N. Phillips, C. Baer. Dept. Zoology, Univ. Florida, Gainesville, FL 32611. ostrowdg@ufl.edu

Monday Posters - Quantitative genetics

M77	**Developing SSCP markers in *Tribolium castaneum***		Daibin Zhong, Aditi Pai, Guiyun Yan. Dept. Biological Sciences, SUNY at Buffalo, Buffalo, NY 14260. dzhong@buffalo.edu
M78	**Quantitative genetics of brood size and parental care in a burying beetle**		Claudia M. Rauter. Dept. Biology, Univ. Nebraska at Omaha, Omaha, NE 68182. crauter@mail.unomaha.edu
M79	**Effects of interactions of multiple loci on copper resistance in fish families of the fathead minnow (*Pimephales promela*)**	*	Marianna C. Augustine, S. I. Guttman, M. J. Bagley. Dept. Zoology, Miami Univ., Oxford OH 45220. msscience10@yahoo.com
M80	**Quantitative trait loci for lipid content in *Drosophila melanogaster***	*	Mei-hui Wang, Lawrence G. Harshman, Sergey V. Nuzhdin. Dept. Biological Sciences, Univ. Nebraska-Lincoln, Lincoln, NE 68588. mhwang@BIGRED.UNL.EDU
M81	**Tests of inbreeding and outbreeding depression in a metapopulation**	*	Amaris L. Swann, Lisa M. Meffert. Dept. Ecology and Evolutionary Biology, Rice Univ., Houston, TX 77005. amswann@rice.edu

Monday Posters - Sexual selection

M82	**The effect of social environment on male-male competition in guppies (*Poecilia reticulata*)**	*	Anna C. Price, F. Helen Rodd. Dept. Zoology, Univ. Toronto, Toronto, Ontario, M5S 3G5, Canada. anna.price@utoronto.ca
M83	**Fitness and longevity consequences of mate preference in *Drosophila pseudoobscura***	*	Elizabeth T. Lebow, Wyatt W. Anderson, Patricia A. Gowaty, Y. K. Kim. Inst. Ecology, Univ. Georgia, Athens, GA 30601. etyler@uga.edu
M84	**What to choose and what to get? Multivariate genetics and the strength of sexual selection in decorated crickets**	*	Tarmo Ketola, Raine Kortet, Janne S. Kotiaho. Dept. Biological and Environmental Sciences, P.O.Box 35, 40014 Univ. Jyväskylä, Finland. tketola@cc.jyu.fi
M85	**Assortative-disassortative mating based on bill-width in Wedge-tailed Shearwaters**	*	Darren R. Peck, Bradley C. Congdon. School of Tropical Biology, James Cook Univ., Cairns, Australia. darren.peck@jcu.edu.au
M86	**Female choice for good genes vs. direct benefit in cactophilic *Drosophila***	*	Elen Oneal, Tim Connallon, L. Lacey Knowles. Ecology and Evolutionary Biology, Univ. Michigan, MI 48109. eoneal@umich.edu
M87	**Reproductive tract interactions in female *Drosophila***	*	Erin S. Kelleher, Therese A. Markow. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. kelleher@email.arizona.edu

M88	**Does precopulatory effort predict sperm quality in walnut flies?**	*	Laura D. Carsten. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. carsten@email.arizona.edu
M89	**Electron micrograph images capture mating induced changes in the *Drosophila melanogaster spermathecae***	*	Adrianne M. Prokupek, Lawrence G. Harshman, Kit Lee. School of Biological Sciences, Univ. Nebraska Lincoln, Lincoln, NE 68588. aprokup1@bigred.unl.edu
M90	**Evidence of positive selection on the sperm protein PKDREJ**	*	David E. Hamm, Willie J. Swanson. Dept. Genome Sciences, PO Box 357730, Seattle, WA 98195. dhamm@gs.washington.edu
M91	**Sexual selection and *Drosophila* wing shape**	*	Brian Hollis. Florida State Univ., Dept. Biology, Tallahassee, FL 32306. bhollis@bio.fsu.edu
M92	**Assessment of the cuticular hydrocarbons involved in mate-choice within and between populations of *Drosophila mojavensis***		Amber D. Tripodi, William J. Etges. Univ. Arkansas. wetges@uark.edu
M93	**Color polymorphism and population structure in the cichlid *C. leptosoma*: A transient stage in disruptive selection?**	*	Simona Santini. Stazione Zoologica "Anton Dohrn", Napoli, Italy. santini@szn.it

Monday Posters - Speciation

M94	**Assortative mating as an isolating barrier in the rapid speciation of threespine stickleback (*Gasterosteus aculeatus*)**	*	Christoff G. Furin, Frank von Hippel. Dept. Biological Sciences, Univ. Alaska Anchorage, 3211 Providence Dr., Anchorage, AK 99508. cgf@uaa.alaska.edu
M95	**Sexual size dimorphism and phylogenetic trends in *Drosophila* species**	*	Minyoung Yi, George Gilchrist, Kim van der Linde, David Houle. Dept. Biology, College of William and Mary, Williamsburg, VA 23187-8795. mjyixx@wm.edu
M96	**Genetics of divergence in pigmentation and courtship between *Drosophila elegans* and *D. gunungcola***	*	Shu-Dan Yeh, Shian-Ren Liou, John R. True. Dept. Ecology and Evolution, SUNY Stony Brook, Stony Brook, NY 11790. sdyeh@life.bio.sunysb.edu
M97	**Identifying the flower color gene responsible for prezygotic isolation in *Phlox***	*	Mark D. Rausher, Robin A. Smith. Duke Univ. Dept. Biology Box 90338, Durham, NC 27708. ras10@duke.edu
M98	**Testing the chromosomal inversion model in *Drosophila mojavensis* and *D. arizonae***	*	Brian A. Counterman, Mohamed A.F. Noor. Biological Science Dept, Louisiana State Univ., 107 Life Science Bldg, Baton Rouge, LA 70803. bcount1@lsu.edu
M99	**Uncommon unidirectional hybridization in plants: Evidence for reinforcement**		Renchao Zhou, Suhua Shi, Chung-I Wu. School of Life Sciences, Sun Yat-Sen Univ., Guangzhou 510275, China. lssssh@zsu.edu.cn

M100 **Limited introgression near chromosomal inversions linked to reproductive isolation in *Drosophila***

* Tamara S. Haselkorn, Mohamed A.F. Noor, Carlos A. Machado. Dept. Ecology and Evolutionary Biology, Univ. Arizona, Tucson, AZ 85721. thaselko@email.arizona.edu

M101 **Links between sexually selected genitalic divergence and rates of speciation in montane grasshoppers**

Eladio J. Marquez, L. Lacey Knowles. Dept. Ecology and Evolutionary Biology, Univ. Michigan, Ann Arbor, MI 48109. knowlesl@umich.edu

M102 **Sexual isolation between sympatric and allopatric populations in *Drosophila pseudoobscura and D. persimilis***

Wyatt W. Anderson, Yong-Kyu Kim. Dept. Genetics, Univ. Georgia, Athens, GA 30602. yongkyu@uga.edu

M103 **Shared mtDNA variation between sympatric populations of the Hawaiian cricket *Laupala*: Further implications for reinforcement**

* Jenna Jadin, Kerry Shaw. Dept. Biology, Bldg #144, Univ. Maryland, College Park, MD 20742. jadin@umd.edu

Monday Posters - Systematics

M104 **A liberal Supertree approach to test the Ecdysozoa hypothesis**

* Gayle K.Philip, Christopher J. Creevey, James O. McInerney. Bioinformatics Lab, National Univ. Ireland, Maynooth, Co. Kildare, Ireland. gayle.k.philip@nuim.ie

M105 **Molecular phylogeny of the *Verrucariales* (Fungi, Ascomycota) and an example of transition from mutualism to parasitism**

* Cecile Gueidan, Francois Lutzoni. Duke Univ., Biology Dept., Box 90338, Durham NC 27708, USA. cg19@duke.edu

M106 **The evolution of GBSSI-1 in *Iliamna* and *Malacothamnus* and implications in phylogenetics**

Tracey A. Bodo Slotta. 1605 Albrecht Blvd. Fargo ND 58105-5674. slottat@fargo.ars.usda.gov

M107 **Out of the Himalaya to Alaska: Phylogeny of the mustard genus *Parrya* (Brassicaceae)**

Jason R. Grant, Xavier Benrey, Dave Murray. Universite de Neuchatel, Laboratoire de botanique evolutive, Emile Argand 11, CP 2, Neuchatel Switzerland 2007. jason.grant@unine.ch

M108 **Ascent up the mountains and descent from Antarctica: Diversification of the Andean seedsnipes**

* Gabriela Ibarguchi, Pablo L. Tubaro, Stephen C. Lougheed, Vicki L. Friesen. Dept. Biology, Queen's Univ., Kingston, ON, K7L 3N6. gibarguchi@biology.ca

M109 **Re-evaluation of the sister group to the vascular plants using chloroplast genome data**

* N. Ivalu Cacho, David A. Baum, Bret Larget. Dept. Botany, Univ. Wisconsin, Madison, WI 53706. nicacho@wisc. edu

M110 **Diversification within the Malagasy Hibisceae (Malvaceae)**

* Maragaret M. Koopman, David A. Baum. Dept. Botany, Univ. Wisconsin Madison, Madison, WI 53706. mmkoopman@wisc.edu

M111 **Evolution and phylogeography of the *Halimeda cuneata-discoidea-tuna* cryptic species complex (Chlorophyta)**

* Heroen Verbruggen, Olivier De Clerck, Tom Schils, Wiebe H.C.F. Kooistra, Eric Coppejans. Phycology Research Group, Ghent Univ., Krijgslaan 281 (S8), 9000 Gent, Belgium. heroen.verbruggen@ugent.be

M112 Phylogeny of megabats based on nuclear genes

* Francisca C. Almeida, Norberto P. Giannini, Rob DeSalle, Nancy B. Simmons. American Museum of Natural History / NYU. falmeida@amnh.org

M113 Evolution of the forefoot skeleton in small-eared shrews (Mammalia: Soricidae)

Neal Woodman. USGS Patuxent Wildlife Research Center, National Museum of Nat. Hist., Smithsonian Institution, Washington, DC 20013. woodmann@si.edu

M114 Phylogeny of wood decay fungi

Susan V. Diehl, Tom McElroy, Lynn Prewitt, Walter J. Diehl. Dept. Forest Products, Mississippi State Univ., Mississippi State, MS 39762. sdiehl@cfr.msstate.edu

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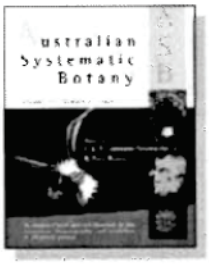

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Mary Jane West-Eberhard, *Smithsonian Tropical Research Institute*

Developmental Plasticity and Evolution is the first comprehensive synthesis on development and evolution: it applies to all aspects of development, at all levels of organization and in all organisms, taking advantage of modern findings on behavior, genetics, endocrinology, molecular biology, evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change. This book solves key problems that have impeded a definitive synthesis in the past. It uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change. The book shows how the universal qualities of phenotypes—modular organization and plasticity—facilitate both integration and change. Here you will learn why it is wrong to describe organisms as genetically programmed; why environmental induction is likely to be more important in evolution than random mutation; and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution. This book satisfies the need for a truly general book on development, plasticity and evolution that applies to living organisms in all of their life stages and environments. Using an immense compendium of examples on many kinds of organisms, from viruses and bacteria to higher plants and animals, it shows how the phenotype is reorganized during evolution to produce novelties, and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change. *Developmental Plasticity and Evolution* is designed for biologists interested in the development and evolution of behavior, life-history patterns, ecology, physiology, morphology and speciation. It will also appeal to evolutionary paleontologists, anthropologists, psychologists, and teachers of general biology.

2003 816 pp.; 195 b/w halftones & line illus
0-19-512234-8 cloth ~~$89.50~~/$79.60
0-19-512235-6 paper ~~$49.95~~/$39.96

PERSPECTIVES ON ADAPTATION IN NATURAL AND ARTIFICIAL SYSTEMS

Edited by **Lashon Booker**, *MITRE Corp.*, **Stephanie Forrest**, *University of New Mexico*, **Melanie Mitchell**, *Oregon Health and Science University*, and **Rick Riolo**, *University of Michigan*

This book consists of 17 papers on the contributions of John Holland by a distinguished group of scholars from a wide range of fields, including the Nobel laureates Kenneth Arrow and Herbert Simon, and also Douglas Hofstadter, Brian Arthur, Robert Axelrod, and Melanie Mitchell. Holland is the father of genetic algorithms, the pioneering worker exploring "emergence," and one of the leaders of the sciences of complexity. Holland's work is especially important for economics and evolutionary biology, artificial intelligence and machine learning, artificial life, and cognitive science.

(Santa Fe Institute Studies on the Sciences of Complexity)

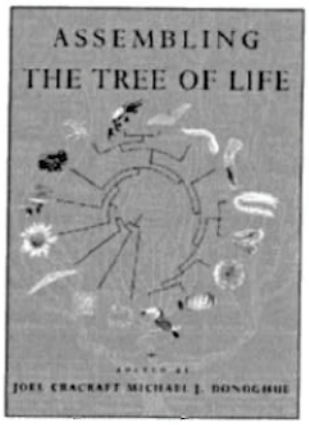
2005 324 pp.; 13 halftones, 44 line illus.
0-19-516292-7 ~~$54.50~~/$43.60

ASSEMBLING THE TREE OF LIFE

Edited by **Joel Cracraft**, *American Museum of Natural History*, and **Michael J. Donoghue**, *Yale University*

This volume provides an authoritative synthesis of knowledge about the history of life. All the major groups of organisms are treated, by the leading workers in their fields. It includes the following sections: The Importance of Knowing the Tree of Life; The Origin and Radiation of Life on Earth; The Relationships of Green Plants; The Relationships of Fungi; and The Relationships of Animals. This book should prove indispensable for evolutionary biologists, taxonomists, ecologists interested in biodiversity, and as a baseline sourcebook for organismic biologists, botanists, and microbiologists. An essential reference in this fundamental area.

2004 592 pp.; 32 halftones, 198 line illus.
0-19-517234-5 ~~$59.95~~/$53.96



EVOLUTION ILLUMINATED

Salmon and Their Relatives

Edited by **Andrew P. Hendry**, *McGill University*, and **Stephen C. Stearns**, *Yale University*

This book will appeal to investigators in each of the scientific disciplines it integrates—evolutionary biology, ecology, salmonid biology, management, and conservation. Variation in salmonids can be used to illustrate virtually all evolutionary questions, and so the work will also attract general scientific interest by ecologists and evolutionary and conservation biologists.

2003 520 pp.; 4 halftones, 94 line illus.
0-19-514385-X ~~$89.50~~/$79.60

MOLECULAR EVOLUTION AND PHYLOGENETICS

Masatoshi Nei, *Pennsylvania State University*, and **Sudhir Kumar**, *Arizona State University*

During the last ten years, remarkable progress has occurred in the study of molecular evolution. Among the most important factors that are responsible for this progress are the development of new statistical methods and advances in computational technology. In particular, phylogenetic analysis of DNA or protein sequences has become a powerful tool for studying molecular evolution. Along with this developing technology, the application of the new statistical and computational methods has become more complicated and there is no comprehensive volume that treats these methods in depth. *Molecular Evolution and Phylogenetics* fills this gap and present various statistical methods that are easily accessible to general biologists as well as biochemists, bioinformatists and graduate students. The text covers measurement of sequence divergence, construction of phylogenetic trees, statistical tests for detection of positive Darwinian selection, inference of ancestral amino acid sequences, construction of linearized trees, and analysis of allele frequency data. Emphasis is given to practical methods of data analysis, and methods can be learned by working through numerical examples using the computer program MEGA2 that is provided.

2000 352 pp.; 74 line illus
0-19-513585-7 paper ~~$64.50~~/$51.60
0-19-513584-9 cloth ~~$89.50~~/$71.60

GENESIS

The Evolution of Biology

Jan Sapp, *Universite du Quebec a Montreal*

Genesis: The Evolution of Biology presents a history of the past two centuries of biology, suitable for use in courses, but of interest more broadly to evolutionary biologists, geneticists, and biomedical scientists, as well as general readers interested in the history of science. The book covers the early evolutionary biologists Lamarck, Cuvier, Darwin and Wallace through Mayr and the neodarwinian synthesis, in much the same way as other histories of evolution have done, bringing in also the social implications, the struggles with our religious understanding, and the interweaving of genetics into evolutionary theory.

This is the first book on the general history of evolutionary biology to include the history of research and theories about symbiosis in evolution, and first to include research on microbial evolution which were excluded from the classical neo-Darwinian synthesis. Bacterial evolution, and symbiosis in evolution are also excluded from virtually every book on the history of biology.

2003 384 pp.
0-19-515619-6 paper ~~$29.95~~/$23.96

MICROBIAL PHYLOGENY AND EVOLUTION

Concepts and Controversies

Edited by **Jan Sapp**, *York University*

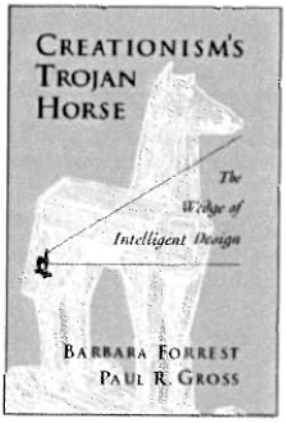
The extent of lateral gene transfer among diverse microbes has effectively broken down our concept of species when we seek to apply it to the microbial world. The explosive growth of whole genome sequences for a great number of microbes give us an unprecedented perspective on the entire process of cellular evolution. The field is rife with controversies, which have been waged fiercely over the past 20 years and which now are all coming to a point of resolution. Sapp has brought together the best workers in this field to assess what we now know, and to try to reach an accommodation and consensus on the broad outline of how cellular life has evolved.

2005 352 pp.; 5 halftones, 44 line illus.
0-19-516877-1 ~~$59.50~~/$47.60

CREATIONISM'S TROJAN HORSE

The Wedge of Intelligent Design

Barbara Forrest, *Southeastern Louisiana University*, and **Paul R. Gross**, *University of Virginia (Emeritus)*



Forrest and Gross expose the scientific failure, the religious essence, and the political ambitions of "intelligent design" creationism. They examine the movement's "Wedge Strategy," which has advanced and is succeeding through public relations rather than through scientific research. Analyzing the content and character of "intelligent design theory," they highlight its threat to public education and to the separation of church and state.

2004 416 pp.
0-19-515742-7 ~~$40.00~~/$32.00

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Local area dining - Fairbanks and the outlying area

Within walking distance of UAF

- Bun on the Run – Sandwiches, pastries, and desserts (Trailer in the parking lot of Beaver Sports, 2480 College Road)
- College Coffee House – Espresso, light meals (3677 College Road) 374-0468
- College Town Pizzeria (3549 College Road) 457-2200
- Gulliver's Books & Second Story Café – Sandwiches, soups (3525 College Road). 474-9574
- Hot Licks - Homemade ice cream (3453 College Road) 479-7813
- Pad Thai — Thai (3400 College Road) 479-1251
- Paco's Tacos – Mexican (1335 Hayes Avenue off College Road) 451-8226
- Wok N' Roll – Chinese fast food (3535 College Road) 455-4848

Marginal walking distance from UAF

- Alaska Coffee Roasting Company — Espresso, light meals (4001 Geist Road) 457-5282
- McDonald's (3905 Geist Road) 474-2010
- Pizza 4 Less (Geist Road) 451-6060
- Pizza Hut (4001 Geist Road) 456-5656
- Sam's Sourdough Café – Family style (3702 Cameron, off University Avenue) 479-0523
- Wolf Run — Light meals and desserts (3360 Wolf Run, off University Avenue) 458-0636
-

Need a car — fast food

- Burger King (1690 Airport Way) 452-4206
- Kentucky Fried Chicken (62 College Road) 452-7546
- McDonald's (1930 Airport Way) 452-4600
  (38 College Road, next to Bentley Mall) 452-8515
- Pizza Hut (1991 Airport Way) 456-5656
- Quiznos (3598 Airport Way) 458-7849)
- Subway (3574 Airport Way) 479-8688
- Taco Bell (87 College Road) 452-3166
  (1453 University Avenue) 474-9526
- Wendy's (1859 Airport Way) 456-3663

Need a car — casual dining

- The Bakery Restaurant – Family style (69 College Road) 456-8600
- Boston's Pizza – Family style (Old Steese Highway)
- Brewsters — Burgers, salads (3578 Airport Way) 456-2538
- The Chowder House – Chowder, soup, sandwiches (206 Eagle Avenue) 452-2882
- Cookie Jar – Family style (1006 Cadillac Court) 479-8319
- Denny's – Family style (1929 Airport Way) 451-8950
- Food Factory – Burgers, hot wings, cheese steak (44 College Road) 452-3313
- The Grill – Burgers, teriyaki and salads (3439 Airport Way) 456-5220
- Ivory Jack's – 2nd best burger in Alaska, pizza (2581 Goldstream Road) 455-6665
- Alaska Salmon Bake – Salmon, halibut, prime rib (Pioneer Park) 452-7274

Need a car — ethnic food

- El Sombrero – Mexican (1420 Cushman Street) 456-5269
- Geraldo's – Italian (3226 Airport Way) 474-0409
  (701 College Road) 452-2299
- Hot Tamale — Mexican (112 North Turner) 457-8350
- Lemon Grass — Thai (388 Old Chena Pump Road) 456-2200
- Thai House Restaurant – Thai (526 5th Avenue) 452-6123
- Sweet Basil Thai Restaurant – Thai (1448 South Cushman Street) 456-2170

Need a car — fine dining

(Reservations are recommended for these restaurants.)

- Bear 'n' Seal Grill & Bar (813 Noble Street, in the Westmark Hotel) 459-7725
- Café Alex– Seafood to steak (310 1st Avenue) 452-2539
- Gambardella's Pasta Bella – Italian (706 2nd Avenue) 456-3417
- Lavelle's Bistro (575 1st Avenue, in the Spring Hill Suites Marriott Hotel) 451-0765
- Pike's Landing Fine Dining & Sports Lounge – Fish, steak, seafood (4438 Airport Way) 479-6500
- Pump House Restaurant & Saloon – Fish, steak, seafood (Mile 1.3 Chena Pump Road) 479-8452
- River's Edge Restaurant & Cocktails (4200 Boat Street) 474-3601
- Turtle Club -Prime rib and crab (Mile 10 Old Steese Highway) 457-3883
- Two Rivers Lodge Fine Dining – Everything from alligator to steak (Mile 16 Chena Hot Springs Road) 488-6815
- The Vallata – Italian (2190 Goldstream Road) 455-6600
- Zach's – Steak, seafood, pasta (1717 University Avenue) 479-3650

Shopping near campus

- Beaver Sports – Sporting goods, clothing (3480 College Road) 479-2494
- Date Line Copies – Copying, office supplies (3677 College Road) 479-3831
- Fred Meyer – Groceries, housewares, clothing (3755 Airport Way) 474-1400
- Gulliver's Books – Books, gifts (3525 College Road) 474-9574
- Safeway – Groceries (3627 Airport Way) 374-4000

Things to do in Fairbanks and the surrounding area

Activities on campus

- Check out the campus calendar http://cgis.uaf.edu/cgi-bin/events/webevent.cgi
- Georgeson Botanical Garden – Numerous varieties of flowers and vegetables cultivated for Alaska's climate. Open for viewing daily. 474-1944
- Robert G. White Large Animal Research Station – View muskox, caribou, and reindeer. Tours daily. 474-7207
- University of Alaska Museum of the North – Discover fascinating stories about Alaska/s people, places, and wildlife. Audio guide available. Museum store. 9:00 am – 7:00 pm 474-7581

Activities around town

- Alaskan Tails of the Trail with Mary Shields – Learn about Mary's adventures in mushing the Iditarod and through the Alaska wilderness. 455-6469
- Chena Bend Golf Course – Beautiful golf course located on Fort Wainwright. 353-6223
- Chena Hot Springs Resort – Soak in the hot springs and visit the ice museum. 451-8104
- Creamer's Field Migratory Waterfowl Refuge 452-5162
- El Dorado Goldmine – Ride the Tanana Valley Railroad and pan for gold. 479-6673
- Ester Gold Camp – Dinner, Malemute Saloon's nightly musical show, and Northern Lights Photosymphony show . 452-7274
- Fairbanks Golf and Country Club – Play a game of golf under the midnight sun. 479-6555
- Gold Dredge No. 8 – Visit a gold dredge and pan for gold. 457-6058
- Ice Museum – Ice sculptures on display. Downtown on 2nd Avenue. 451-8222
- Midnight Sun Balloon Tours – Take a breathtaking trip over the Tanana Valley. 456-3028
- North Star Golf Club - Northern-most USGA golf course. 457-4653
- Pioneer Park – Visit this historic park for Fairbanks history, train rides, miniature golf, picnic grounds, and many gift shops housed in historic log cabins. 459-1087
- Palace Theatre and Saloon – Musical comedy about early Fairbanks. 452-7274
- Riverboat Discovery – Enjoy a boat cruise on the Chena and Tanana Rivers, including a guided walking tour of an Indian Village. 479-6673
- Tanana Valley Farmers Market – View what Fairbanks area farmers and artisans have produced. College Road - Wednesdays & Saturdays.
- Trans-Alaska pipeline - Information and viewing, on the Steese Highway.

Art galleries and shops

- Fairbanks Arts Association – Bear Gallery in the Pioneer Park Civic Center. 456-6485
- Artworks - 3677 College Road 479-2563
- New Horizons Gallery - 519 1st Avenue 456-2063
- Alaska House - 1003 Cushman Street 456-6449
- Well Street Art Company 1304 Well Street 452-6169
- Knotty Shop – Wood crafts, burl carving and 30-foot totem pole. 488-3014
- Santa Claus House - North Pole. 488-2200

Be adventurous

- Rent a canoe and travel on the Chena River.
- Hike one of the many trails located throughout the Tanana Valley.
- Visit the grand Denali National Park.
- Relax at one of the numerous lakes for a camping and fishing trip.
- Alaska Public Lands Information Center - 250 Cushman St. Suite 1A 456-0527
- Mosquito Meander – June 11, 10:00 am. 5K walk & run. Starts at Pioneer Park. 456-4729
- Midnight Sun Run – June 18, 10:00 pm. Enjoy our midnight sun by participating in Fairbanks' most popular run (10K). Starts at UAF campus. 452-7211 ext. 22

Check at the Hospitality Desk and the Fairbanks Convention and Visitors Bureau (456-5774 or www.explorefairbanks.org) for more information.

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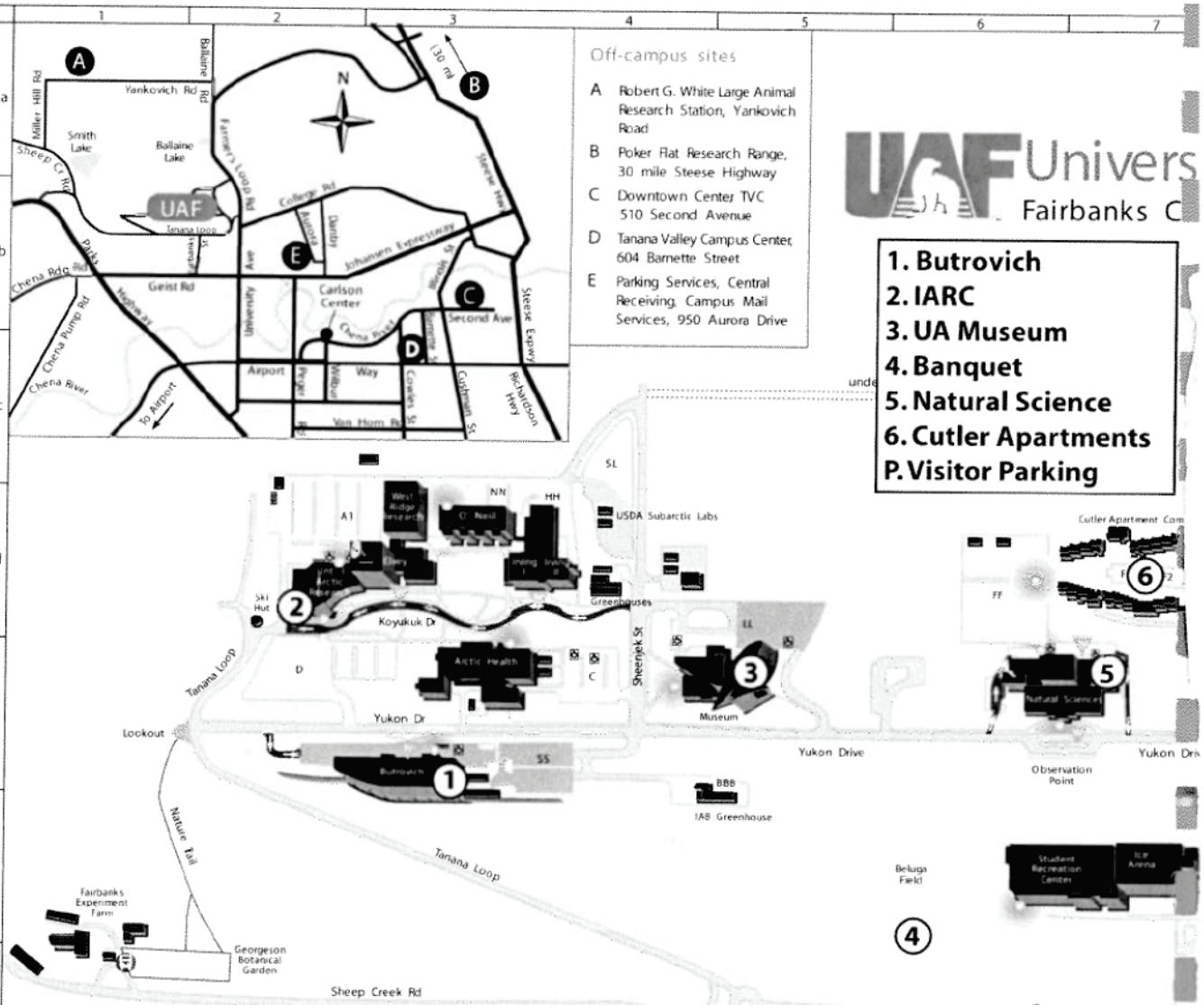

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11. Wood Center
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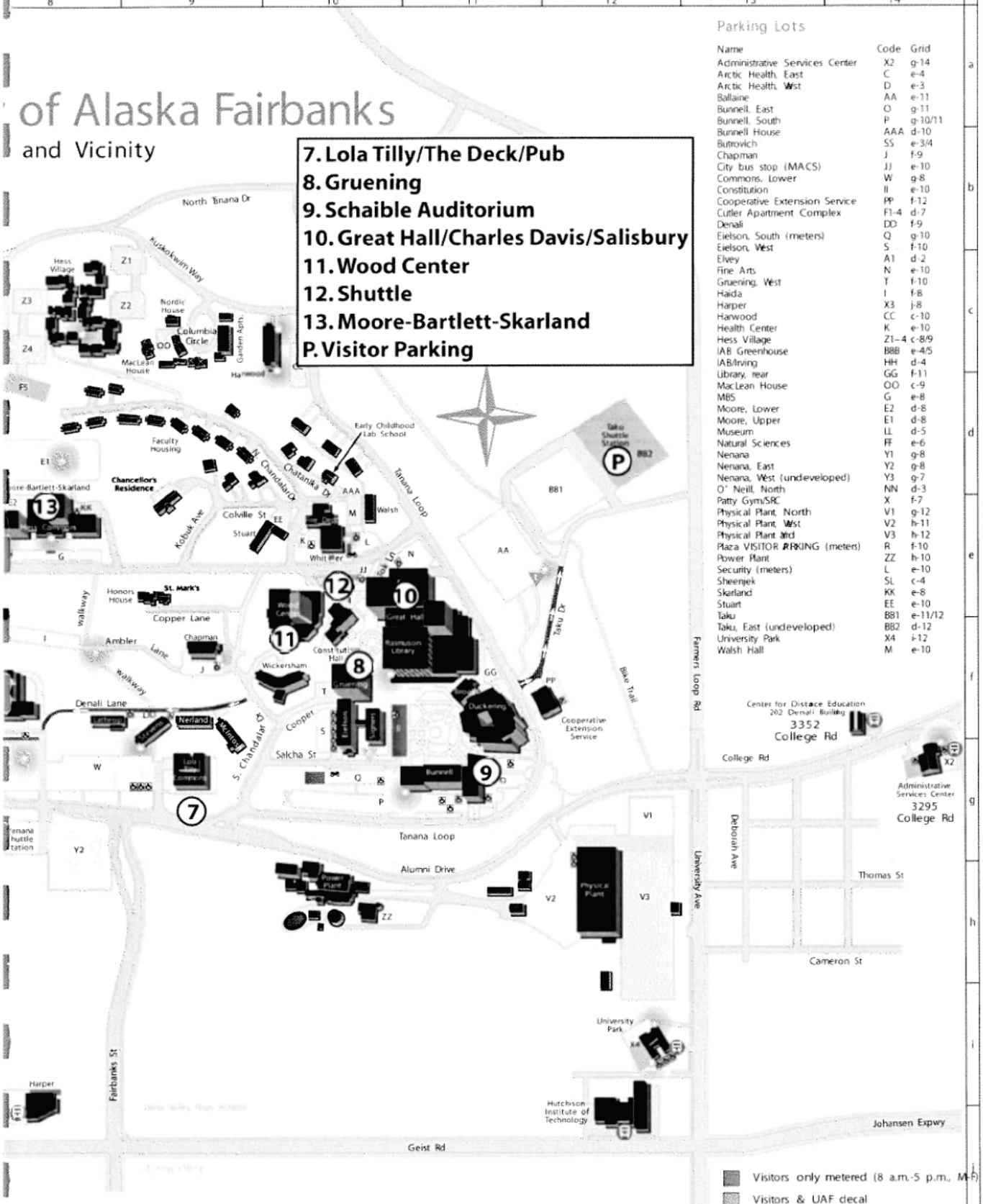

Parking Lots

Name	Code	Grid
Administrative Services Center	X2	g-14
Arctic Health, East	C	e-4
Arctic Health, West	D	e-3
Ballaine	AA	e-11
Bunnell, East	O	g-11
Bunnell, South	P	g-10/11
Bunnell House	AAA	d-10
Butrovich	SS	e-3/4
Chapman	J	f-9
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Commons, Lower	W	g-8
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Denali	DD	f-9
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Eielson, West	S	f-10
Elvey	A1	d-2
Fine Arts	N	e-10
Gruening, West	T	f-10
Haida	I	f-8
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Harwood	CC	c-10
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- Visitors only metered (8 a.m.-5 p.m., M-F)
- Visitors & UAF decal
- UAF decal only
- Restricted parking/No parking
- No parking unless otherwise posted
- Motorcycle parking
- Handicapped parking

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