

Evolution 2002

June 28-July 2

University of Illinois at Urbana-Champaign

Final Program

Contents

Acknowledgments	2
Welcome to Urbana-Champaign!	3
About the University of Illinois at Urbana-Champaign	3
Sponsors	3
General Conference Information	4
Registration Desk	4
Meals	4
Special Events	4
Shuttle Service	4
Message Board	4
Moderators	5
Speakers	5
Poster Presenters	5
Computer Lab	5
Emergency Numbers and Procedures	5
Special Displays and Tour	5
Exhibit Schedule	6
Exhibitor Descriptions:	6
Building Key Listing	7
Special Meetings	7
Daily Event Schedule	8
Scientific Program • Oral Presentations	12
Saturday June 29 AM	12
Saturday June 29 PM	15
Sunday June 30 AM	19
Sunday June 30 PM	23
Monday, July 1 AM	27
Monday July 1 PM	31
Tuesday July 2 AM	34
Tuesday July 2 PM	37
Poster Presentation	40
Guide to Restaurants	50
Nightlife	51
Things to do in Urbana-Champaign and nearby	52
Special events in town during Evolution 2002	53
Participant list	54
Index	66
Shuttle Service	82

Acknowledgments

Because neither of us had ever served on a local arrangements committee before, we began this experience a little like Mickey Rooney and Judy Garland in "Babes in Arms"—with the rallying cry of "Let's put on a show!" but with no practical experience in the details. The show just wouldn't have gone on without the help of many extraordinary people. First, we have to thank the extremely capable staff at UI Conferences & Institutes, including James Onderdonk, Scott Miller, Stephanie Shockey, David Ward, and Mona Knight, who are in the business of insuring that shows (and conferences and even institutes) are successful and who attended efficiently and professionally to every detail, from meeting room logistics to tote bag design. The logo on the tote bag, depicting *Diabrotica virgifera*, the western corn rootworm, was ably and creatively designed by Gretchen Wieshuber. Given recent evidence that this corn specialist has evolved resistance to the corn/soybean rotation used for decades for rootworm management in the Midwest, ovipositing not in cornfields but in soybean fields, we felt that it was an especially appropriate symbol for our meeting. Kevin Johnson did an absolutely brilliant job as program chair; his training in systematics no doubt accounted, at least in part, for his consummate skill in classifying, grouping, and organizing a bewildering diversity of talks and posters. He was ably assisted by Mike Ward, who by artful and gentle arm-twisting managed to recruit moderators for every session. Rose Reynolds took on the daunting task of organizing the graduate student volunteers and recruited an enthusiastic and capable crew, without whose help this conference simply couldn't have happened. Sydney Cameron, Stephen Downie, Ken Paige, and James Whitfield all provided advice and counsel at critical junctures. We're grateful to John Dudley, Karlene Ramsdell, Tom Phillips, Dan Blake, and Barbara Jones of the University of Illinois, Beth Wohlgemuth of the Illinois Natural History Survey, and Ben Williams of the Chicago Field Museum for sharing their expertise and artifacts, allowing us to showcase state and university contributions to the study of evolution. Thanks, too, to Richard Leskosky for identifying and finding animated films to show at our Evolution film festival. We also thank Sam Donovan and Michael Antolin for organizing the fourth annual Educational Program and Symposium.

We know it's inevitable that some (maybe even all) of you will have a problem at some point during the meeting. For this we apologize ahead of time; we wish, for example, that we could control the weather in east central Illinois in June or the construction work in Campustown that always seems to block streets at the most inopportune time. We've tried to anticipate major problems and to minimize their likelihood of occurring. We hope, though, that the problems are few and surmountable and that you'll enjoy the meeting despite them; despite the problems we've encountered over the past 12 months, we've certainly enjoyed putting this meeting together for you. Thanks for coming!

*May Berenbaum and Stewart Berlocher, Co-chairs
Local Arrangements Committee*

Welcome to Urbana-Champaign!

You are cordially invited to visit the twin cities of Urbana and Champaign, in the heart of east central Illinois. In case you're wondering, they're not identical twins; their births were separated by about 30 years. Urbana dates back to 1822, when William Tompkins built the first homestead on the site that 11 years later was officially platted as a new city, whereas Champaign didn't come into existence until 1852, when the Illinois Central Railroad laid tracks two miles outside of Urbana and residents who settled close by rejected annexation efforts and instead incorporated their own city a few years later. Despite the fact that the two cities now share many services (as well as Wright Street, the official dividing line) and are cooperative and cordial with each other, referenda to merge the two into a single metropolis have been, since 1855, consistently and resoundingly defeated. The courthouse in Urbana, the permanent county seat for Champaign County, was frequented in the 1840s and 1850s by a young lawyer by the name of Abraham Lincoln, who practiced law in the 8th Judicial Circuit. In 1854, he delivered one of his first public speeches against slavery in the county courthouse in downtown Urbana.

The lives of the residents of Urbana and Champaign were changed forever when, in 1867, the Illinois Industrial University, later to become the University of Illinois at Urbana-Champaign, was chartered.

About the University of Illinois at Urbana-Champaign

The University of Illinois at Urbana-Champaign is a comprehensive, major public university that is ranked among the best in the country. The University of Illinois at Urbana-Champaign was founded in 1867 as a state-supported, land-grant institution with a threefold mission of teaching, research, and public service. The University has earned a reputation as an institution of international stature. It is recognized for the high quality of its academic programs and the outstanding facilities and resources it makes available to students and faculty. Scholars and educators rank it among a select group of the world's great universities. For more information, see the university Web site (<http://www.uiuc.edu>). Located in the adjoining cities of Champaign and Urbana (combined population 100,000), approximately 140 miles south of Chicago, the University and its surrounding communities offer a cultural and recreational environment ideally suited to the work of a major research institution. The University is a residential campus of classrooms, laboratories, libraries, residence halls, and recreational and cultural facilities with 200 major buildings on the central campus of 1,470 acres. Nearby are the University's 1,650-acre Willard Airport; Robert Allerton Park, the campus's 1,768-acre nature and conference center; and 3,600 acres of agricultural land. An additional 3,700 acres of farmland elsewhere in Illinois are used by the College of Agricultural, Consumer, and Environmental Sciences as experimental fields.

Sponsors

The organizers gratefully acknowledge the generous support of the School of Integrative Biology and the Office of the Vice Chancellor for Research at the University of Illinois at Urbana-Champaign and Taylor & Francis as sponsors of the 2002 Joint Meeting of the Society for the Study of Evolution and the Society for Systematic Biology.

General Conference Information

Registration Desk

The conference registration desk, located in the South Lounge of the Union, will be open according to the following schedule:

Friday, June 28, 2002 9:30 AM–9:00 PM

Saturday, June 29, 2002 8:00 AM–5:00 PM

Sunday, June 30, 2002 8:00 AM–5:00 PM

Monday, July 1, 2002 8:00 AM–5:00 PM

Tuesday, July 2, 2002 8:00 AM–5:00 PM

Your registration includes the conference program, a continental breakfast each day of the conference, morning and afternoon breaks each day of the conference, a welcoming reception, poster session receptions, and a conference picnic.

Meals

A limited continental breakfast is included as part of your conference registration. Breakfast will be served each morning in Illini Room C of the Union from 7:00 AM–9:00 AM.

Lunch is “on your own” unless you purchase the residence hall meal package in advance or at the registration desk on Friday, June 28th. The residence hall lunch will be served each day in the Illinois Street Residence Hall from 11:30 AM–1:00 PM.

Illinois Street Residence Hall is located at 1010 W. Illinois Street, approximately three blocks east of the Illini Union. See map on inside back cover of program for directions.

Dinner is “on your own” except for the Sunday evening picnic. The picnic will be held at the University’s Arboretum near the corners of Lincoln and Florida Avenues. The Arboretum is just southeast of the Florida Avenue Residence Halls. A shuttle service will run continuously between the picnic and conference hotels.

The conference banquet will be held in the Ballroom on the second floor of the Union on Tuesday, July 2 from 6:00 PM–9:00 PM. Purchase of banquet tickets was required in advance with your conference registration. A very limited number of tickets may be available for purchase at the registration desk during the conference.

Special Events

Welcome Reception: Friday, June 28 in the South Lounge of the Union from 6:00–9:00 PM.

Outreach Seminar: Saturday, June 29 in Foellinger from 6:00–7:00 PM

Poster Session Receptions: Saturday, June 29 and Monday, July 1 in the Union Illini Rooms A-B from 7:00–9:00 PM.

Conference Picnic: Sunday, June 30 at the University’s Arboretum from 6:00 PM–9:00 PM. Entertainment by the bluegrass band High Cotton.

Evolution Film Festival: Monday, July 1 from 7:00 PM–8:30 PM in Foellinger

In the normal course of practicing their art, animators routinely deal with continuous change and metamorphosis. It’s not surprising, then, that they are often drawn toward evolution as a theme. UIUC Cinema Studies professor Richard Leskosky, former president of the Society for Animation Studies, and entomology professor May Berenbaum, founder of the UIUC Insect Fear Film Festival (now entering its 20th year), will present a collection of award-winning animated shorts from around the world that revolve around the theme of evolutionary change. Possible titles include Bead Game (Oscar nominee); Clay, or Origin of Species (Oscar nominee); Evolution (Oscar nominee); A Very Very Long Time Ago; A World is Born (Rite of Spring section of Fantasia); and Allegro Non Troppo.

Conference Banquet: Tuesday, July 2 in the Ballroom of the Union from 6:00–9:00 PM.

Shuttle Service

A continuous shuttle service will be provided between Florida Avenue Residence Halls, conference hotels, and the Illini Union. See page 82 for details.

Message Board

A message board will be located at the registration desk in the South Lounge of the Union.

Moderators

If you are moderating a session, please arrive a few minutes early to insure that audio-visual equipment is in place and functional. At each session, a graduate student volunteer should be on hand to take care of projection needs. Each room should also be equipped with a timer and a laser pointer. In contributed paper sessions, 15 minutes, including time for questions, are allocated to each speaker; the moderator should alert speakers when 3 minutes remain and again indicate when one minute remains. After 15 minutes, all speakers should be asked to leave the podium. If the speaker has used his/her entire 15 allotted minutes, then the speaker cannot take questions. Please announce this format at the beginning of the session. And please, too, stay on time—if a speaker ends early or if there is a cancellation, do not introduce the next speaker until the time designated for that talk.

Speakers

Please consult the program ahead of time to confirm the time and location of your talk. Arrive early at your session—if you are planning to use slides, bring a carousel already loaded. Find the session moderator and identify yourself so that he or she is aware that you are present. Please try to stay within your allotted time—it's a courtesy to your audience and fellow speakers not only in your session but in concurrent sessions as well. If you would like to preview your 35mm slides, you may do so in the South Lounge of the Union. The room will be open 8:00 AM–9:00 PM, Saturday–Tuesday. If you need to test a computer presentation, you can do so in room 218 of the Mechanical Engineering Building. The building is open Saturday, June 29, 8:00 AM–6:00 PM; Sunday, June 30, 10:00 AM–6:00 PM; Monday, July 1, 8:00 AM–6:00 PM; and Tuesday, July 2, 8:00 AM–6:00 PM.

Poster Presenters

All poster sessions will be held in Illini Rooms A-B of the Union. Numbered poster boards corresponding to the poster titles listed in the final program are available in these rooms. Each poster is assigned a space measuring 4' by 4'. Please put up your poster between 7:00 PM–10:00 PM on Friday, June 28. Posters should remain up through the second poster session on Monday, July 1 from 7:00 PM–9:00 PM. Posters must be removed by Tuesday, July 2 at 5:00 PM. Any posters remaining will be discarded. Please stand by your poster during your designated poster session.

Refreshments will be available at both scheduled poster-viewing sessions.

E-mail

A computer lab in 425 of the Natural History Building (fourth floor) will be open if you wish to check your e-mail. The lab will be open Saturday, June 29 through Tuesday, July 2 from 8:00 AM–5:00 PM.

Emergency Numbers and Procedures

911 or 9-911 (campus phone): Police, Fire, or Ambulance

333-8911 or 3-8911 (campus phone): Police, non-emergency

Medical Assistance:

383-3311: Carle Foundation Hospital

366-1200: Christie Clinic

337-2000: Provena Covenant Medical Center

Tornado Preparedness:

East-central Illinois is prone to summer thunderstorms; often conditions are conducive to tornadoes. If you hear the sirens go off, a tornado warning is in effect; this means that a funnel cloud has been spotted in the vicinity. On campus, take cover immediately in the lowest floor of a building; stay away from windows.

Fire Procedure:

Exit building in a calm and orderly manner. If you are on an upper level floor, exit by the nearest stairwell. Do not use elevators.

Special Displays and Tour

The state and University of Illinois have made important contributions to the study of evolution over the last 150 years. To bring these contributions, some not widely appreciated, to the attention of evolutionary biologists, the local organizing committee has prepared several displays of original documents, photographs, and specimens that will be available for viewing at the entrance to the Main Library building, and in the Rare Books Room. These include:

Darwin-Walsh Correspondence

Sometimes referred to as "Darwin's Little Bulldog" for his efforts to convert American naturalists to Darwinism, Benjamin Walsh is today most remembered for being the originator of the idea of sympatric speciation via host shift (and as the author of the apple maggot, *Rhagoletis pomonella* [Walsh]). This remarkable English naturalist did research (and farmed) on the Illinois prairie of the 1860s, while corresponding extensively with leading European naturalists, including Charles Darwin. With the cooperation of the Field Museum of Natural History and the Rare Books Collection of the University of Illinois Urbana-Champaign, we are pleased to be able to display original letters between Darwin and Walsh (in the Rare Books Room, Main Library Building).

100 Years of Scientific Selection on Corn

The corn selection lines for high and low oil, carbohydrates, and protein started at the University of Illinois in the 1890s represent the world's longest-running controlled artificial selection experiments. These experiments have been discussed in books ranging from high school biology texts to Futuyma's and Hartl and Clark's widely used evolution texts. In addition to displays of results through 100 generations, we will have a field trip to see the actual plantings on the south farms during the Evolution meetings (date to be announced), organized with the assistance of Dr John Dudley. Sign up at the conference registration desk. Space is limited to the first 50 people.

Mazon Creek Fossils

The Mazon Creek formation of northwestern Illinois, of Pennsylvanian age (~300 MYA), is among the very few that contain impressions of entire animals and plants, not just skeletal remains. The Mazon Creek biota contains both marine and freshwater, and aquatic and terrestrial organisms, ranging from jellyfish to lampreys (with notochord impressions) to salamanders. The formation does not include as many "odd" creatures as the older Burgess Shale, but it does include such remarkable and difficult-to-place taxa as the mysterious "Tully monster", the state fossil of Illinois. While it is not feasible to set up a trip to the site itself (the ironstone nodules containing the specimens now come mostly from coal mines that are difficult to gain access to), we will have a display of both common and rare specimens, as well as a "What is a Tully Monster?" poll. This display is being assembled with the help of the Field Museum, Dr. Dan Blake of the Geology Department, and collector and Entomology graduate student Karlene Ramsdell.

Fine Structure of Pennsylvanian Plants in Coal Balls

Professor Tom Phillips, recently elected to the National Academy of Sciences, has devoted a lifetime to the study of "coal balls" in Pennsylvanian age plants. These permineralized plant remains allow plant anatomy to be studied at the cellular level (far beyond what can be observed even in extraordinary material such as the Mazon Creek fossils). In addition to a display of specimens, Professor Phillips will lead a tour of his facility on the South Farms, including the largest collection of coal balls in the world. Sign up at the conference registration desk. Space is limited to the first 50 people.

A Note about Meeting Space

In order to provide computer projection capability in all meeting rooms we were not able to cluster meeting rooms in one area. Participants should expect to walk some distance between meeting rooms. We apologize for any inconvenience.

Exhibit Schedule

Exhibits are located in the Union Illini Rooms A-B.

Fri., June 28	Set-up	6:00–10:00 PM
Sat., June 29	Show	8:00 AM–12:00 PM and 1:30 PM–9:00 PM
Sun., June 30	Show	8:00 AM–12:00 PM and 1:30 PM–9:00 PM
Mon., July 1	Show	8:00 AM–12:00 PM and 1:30 PM–9:00 PM
Tues., July 2	Show	8:00 AM–12:00 PM
	Tear-down	12:00 PM–5:00 PM

Exhibitor Descriptions:

Academia Book Exhibits

Bruce Davis, acadbkexbs@aol.com

Professional books and journals.

American Institute of Biological Sciences

Donna Royston, RLINK_droyston@aims.org

The American Institute of Biological Sciences (AIBS) is an umbrella organization for professional scientific societies and individuals. AIBS provides services, support, and a voice for biological disciplines that are united by their dedication to research and education. Members' interests span from basic to applied biology, from agronomy to zoology, www.aibs.org.

Blackwell Publishing

Liz Durzy, ldurzy@blacksci.com

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 <http://www.blackwellsience.com> for detailed information on all of our publications.

Dragonfly Glass

Jaye Houle, jayehoule@cs.com

Handcrafted and biologist approved arthropods in stained and fused glass. Commissions and special orders welcome. Imagine your favorite insect in glass. www.dragonflyglass.biz

H. Stevan Logsdon/Wildlife Artist

Quality Wildlife Jewelry and T-Shirts, with scientific accuracy.

Harvard University Press

Gilly Parker, gilly_parker@harvard.edu

Oxford University Press

Diane Crouch, dmc@oup-usa.org

Oxford will display its newer publications of interest to evolutionary biologists, including Trivers, Natural Selection and Social Theory; Moore, Parasites and the Behavior of Animals; Mayr and Diamond, The Birds of Northern Melanesia; and Markos Readers of the Book of Life: Contextualizing Developmental Evolutionary Biology.

Prentice Hall

Gail Goodell, gail.goodell@pearsoned.com

Princeton University Press

Sam Elworthy, 609-258-4915

Princeton University Press publishes major work in evolution, ecology, and behavior. New titles include Frank's *Immunology and Evolution of Infectious Disease*, Simmons's *Sperm Competition*, Barrett, Dunbar, and Lycett's *Human Evolutionary Psychology*, Raby's *Alfred Russell Wallace*, and Corballis's *From Hand to Mouth: The Origins of Language*.

Sinauer Associates, Inc.

Marie Scavotto, scavotto@sinauer.com

ON DISPLAY: Felsenstein: *Inferring Phylogenies*; Pigliucci: *Denying Evolution*; Donovan and Welden: *Spreadsheet Exercises in Ecology and Evolution*; Morris and Doak: *Quantitative Conservation Biology: Theory and Practice of Population Viability Analysis*; Gurevitch, Scheiner, and Fox: *The Ecology of Plants*; Gibson and Muse: *A Primer of Genome Science*; Hall: *Phylogenetic Trees Made Easy*; Roff: *Life History Evolution*; Wilkins: *The Evolution of Developmental Pathways*.

Taylor & Francis

Charles Mensah, cmensah@taylorandfrancis.com

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

University of Chicago Press

Dawn Odell, duo@press.uchicago.edu

"What did you bring me?"

Kathy Wildman, kattwild@hotmail.com

I provide a wide range of scientifically accurate natural history t-shirts, neckties, children's books etc. (An important service to attendees who need that "What did you bring me?" gift to get back through the front door at home.) Sales support K-12 curriculum development using the garden as a hands-on science lab. New this year are wonderful Ray Troll evolution shirts.

Building Key Listing

ASL – Animal Sciences Laboratory, 1207 W. Gregory

Bevier – Bevier Hall, 905 W. Goodwin

Burrill – Burrill Hall, 407 S. Goodwin

DKH – David Kinley Hall, 1407 W. Gregory

Everitt – Everitt Electrical & Computer Engineering Hall, 1406 W. Green

Foellinger – Foellinger Auditorium, 709 S. Mathews

Greg – Gregory Hall, 810 S. Wright

Levis – Levis Faculty Center, 919 W. Illinois

Lincoln – Lincoln Hall, 702 S. Wright

MEB – Mechanical Engineering Building, 105 S. Mathews

MSEB – Materials Science & Engineering Building, 1304 W. Green

Mumford – Mumford Hall, 1301 W. Gregory

Natural History – Natural History Building, 1301 W. Green

Transport – Transportation Building, 104 S. Mathews

Union – Illini Union, 1401 W. Green

Wohlers – Wohlers Hall (formerly Com West), 1206 S. Sixth

Special Meetings

Friday, June 28

Joint Council Meeting	Levis 407	11:00 AM–1:30 PM
SSB Council Meeting	Levis 407	2:00 PM–5:30 PM
SSE Council Meeting	Levis 402-404	2:00 PM–5:30 PM
Education Committee Meeting	Levis 3rd floor	1:00 PM–3:00 PM

Saturday, June 29

SSE General Business Meeting	Levis 3rd floor	12:00 PM–1:15 PM
SSE Editorial Board Meeting	Levis Music Room	12:00 PM–1:30 PM
SSB Editorial Board Meeting	Levis 407	12:00 PM–1:30 PM

Sunday, June 30

NSF General Presentation	Levis 3rd floor	12:00 PM–1:30 PM
--------------------------	-----------------	------------------

Monday, July 1

SSB General Business Meeting	Foellinger	5:00 PM–6:30 PM
------------------------------	------------	-----------------

Daily Event Schedule

Talk number in parentheses

Friday, June 28

Registration		Union-South Lounge	9:30 AM–9:00 PM
Joint Council meeting:		Levis 407	11:00 AM–1:30 PM
SSB Council meeting:		Levis 407	2:00 PM–5:30 PM
SSE Council meeting:		Levis 402-4	2:00 PM–5:30 PM
Education Committee meeting:		Levis 3rd floor	1:00 PM–3:00 PM
Welcome Reception		Union-South Lounge	6:00 PM–9:00 PM

Saturday, June 29 • Morning

Registration		Union-South Lounge	8:00 AM–5:00 PM
SSE Symposium			
Green Evolution: Evolutionary Theory and Results in Agricultural Systems (1–8)		Natural History 228	8:15 AM–12:15 PM
Sessions	Development & Evolution I (9–14)	Wohlers 141	8:30 AM–10:00 AM
	Evolution of Sex (21–26)	Bevier 180	8:30 AM–10:00 AM
	Molecular Evolution I (33–38)	DKH 114	8:30 AM–10:00 PM
	Invertebrate Phylogenetics & Systematics I (45–50)	Greg 112	8:30 AM–10:00 AM
	Vertebrate Phylogeography/Geographic Variation (57–62)	Greg 100	8:30 AM–10:00 AM
Break		Union/Foellinger	10:00 AM–10:30 AM
	Development & Evolution I (cont.) (15–20)	Wohlers 141	10:30 AM–12:00 PM
	Mutations (27–32)	Bevier 180	10:30 AM–12:00 PM
	Molecular Evolution I (cont.) (39–44)	DKH 114	10:30 AM–12:00 PM
	Invertebrate Phylogenetics & Systematics (cont.) (51–56)	Greg 112	10:30 AM–12:00 PM
	Vertebrate Phylogeography/Geographic Variation (cont.) (64–68)	Greg 100	10:30 AM–12:00 PM
SSE General Business Meeting		Levis 3rd floor	12:00 PM– 1:15 PM
SSE Editorial Board Meeting		Levis Music Room	12:00 PM– 1:30 PM
SSB Editorial Board Meeting		Levis 407	12:00 PM– 1:30 PM

Saturday, June 29 • Afternoon

Evolution Education Symposium			
Teaching Socially Relevant Examples of Evolution (69–73)		Foellinger	1:15 PM–4:00 PM
Sessions	Adaptation (77–83)	Wohlers 141	1:15 PM–3:00 PM
	Agriculture (90, 91, 180, & 93–95)	Natural History 228	1:15 PM–3:00 PM
	Genomics I (102–108)	DKH 114	1:15 PM–3:00 PM
	Invertebrate Phylogenetics & Systematics I (115–121)	Greg 112	1:15 PM–3:00 PM
	Vertebrate Phylogeography/Geographic Variation (128–134)	Greg 100	1:15 PM–3:00 PM
	Speciation I (141–147)	Mumford 103	1:15 PM–3:00 PM

Break		Union/Foellinger	3:00 PM–3:30 PM
	Adaptation (cont.) (84–89)	Wohlers 141	3:30 PM–5:00 PM
	Mating System/Breeding System, Plants (96–100)	Natural History 228	3:30 PM–5:00 PM
	Genomics 1 (cont.) (109–114)	DKH 114	3:30 PM–5:00 PM
	Vertebrate Phylogenetics & Systematics 1 (cont.) (122–127)	Greg 112	3:30 PM–5:00 PM
	Invertebrate Phylogeography/Geographic Variation 1 (cont.) (135–140)	Greg 100	3:30 PM–5:00 PM
	Speciation 1 (cont.) (148–153)	Mumford 103	3:30 PM–5:00 PM
Session	Education (74–76)	Foellinger	4:00 PM–4:45 PM
	Outreach Seminar (S. R. Palumbi)	Foellinger	6:00 PM–7:00 PM
	Poster Session	Union–Illini Rooms A–B	7:00 PM–9:00 PM
Sunday, June 30 • Morning			
Registration		Union–South Lounge	8:00 AM–5:00 PM
SSB Symposium			
	Networks: Visualizing Complex Phylogenetic Patterns (154–160)	Natural History 228	8:00 AM–12:00 PM
Sessions	Comparative Biology (161–164, 409, & 166)	Wohlers 141	8:30 AM–10:00 AM
	Ecological Genetics 1 (173–178)	Bevier 180	8:30 AM–10:00 AM
	Life History Evolution (185–189)	Mumford 103	8:30 AM–10:00 AM
	Molecular Evolution 2 (196–201)	DKH 114	8:30 AM–10:00 AM
	Phylogeography/Geographic Variation 1 (208–213)	Greg 100	8:30 AM–10:00 AM
	Speciation 2 (220–225)	Greg 112	8:30 AM–10:00 AM
Break		Union/Foellinger	10:00 AM–10:30 AM
	Macroevolution (167–172)	Wohlers 141	10:30 AM–12:00 PM
	Ecological Genetics 1 (cont.) (179, 92, & 181–184)	Bevier 180	10:30 AM–12:00 PM
	Life History Evolution (cont.) (190–195)	Mumford 103	10:30 AM–12:00 PM
	Molecular Evolution 2 (cont.) (202–207)	DKH 114	10:30 AM–12:00 PM
	Phylogeography/Geographic Variation 1 (cont.) (214–219)	Greg Hall 100	10:30 AM–12:00 PM
	Speciation 2 (cont.) (226–230)	Greg Hall 112	10:30 AM–12:00 PM
NSF General Presentation		Levis 3rd floor	12:00 PM–1:30 PM
Sunday, June 30 • Afternoon			
SSB Symposium			
	Untangling Coevolutionary History (231–237)	Foellinger	1:15 PM–5:00 PM
Sessions	Conservation Biology 1 (238–244)	Natural History 228	1:15 PM–3:00 PM
	Evolution in Microorganisms (251–257)	Wohlers 141	1:15 PM–3:00 PM
	Hybridization 1 (264–270)	Mumford 103	1:15 PM–3:00 PM
	Mating/Breeding Systems (277–283)	DKH 114	1:15 PM–3:00 PM
	Vertebrate Phylogenetics & Systematics 2 (288–294)	Greg 112	1:15 PM–3:00 PM
	Population Genetics 1 (300–306)	Greg 100	1:15 PM–3:00 PM
Break		Union/Foellinger	3:00 PM–3:30 PM

	Conservation Biology 1 (cont.) (245–250)	Natural History 228	3:30 PM–5:00 PM
	Phenotypic Plasticity & GxE (258–263)	Wohlers 141	3:30 PM–5:00 PM
	Hybridization 1 (cont.) (271–276)	Mumford 103	3:30 PM–5:00 PM
	Mating/Breeding Systems (cont.) (284–287)	DKH 114	3:30 PM–5:00 PM
	Vertebrate Phylogenetics & Systematics 2 (cont.) (295–299)	Greg 112	3:30 PM–5:00 PM
	Population Genetics 1 (cont.) (307–312)	Greg 100	3:30 PM–5:00 PM
	Conference Picnic – University Arboretum (1st & Florida Ave.)		6:00 PM–9:00 PM
Monday, July 1 • Morning			
	Registration	Union–South Lounge	8:00 AM–5:00 PM
SSE Symposium			
	New Physiological Approaches to the Study of the Cost of Reproduction (313–320)	Wohlers 141	8:00 AM–12:00 PM
	Computer Workshop on Visualizing Complex Phylogenetic Patterns with Networks	Burrill 164D/E	9:00 AM–12:00 PM
Sessions	Coevolution (321–326)	ASL 150	8:30 AM–10:00 AM
	Molecular Evolution 3 (332–337)	MSEB 100	8:30 AM–10:00 AM
	Invertebrate Phylogenetics & Systematics 2 (344–349)	DKH 114	8:30 AM–10:00 AM
	Plant Reproductive Biology (356–361)	Everitt 151	8:30 AM–10:00 AM
	Population Genetics 2 (368–373)	Lincoln 192	8:30 AM–10:00 AM
	Speciation 3 (380–385)	Burrill 124	8:30 AM–10:00 AM
	Break	Union/Foellinger	10:00 AM–10:30 AM
	Species Interactions (327–331)	ASL 150	10:30 AM–12:00 PM
	Molecular Evolution 3 (cont.) (338–343)	MSEB 100	10:30 AM–12:00 PM
	Invertebrate Phylogenetics & Systematics 2 (cont.) (350–355)	DKH 114	10:30 AM–12:00 PM
	Plant Reproductive Biology (cont.) (362–367)	Everitt 151	10:30 AM–12:00 PM
	Population Genetics 2 (cont.) (374–379)	Lincoln 192	10:30 AM–12:00 PM
	Speciation 3 (cont.) (386–391)	Burrill 124	10:30 AM–12:00 PM
	Getting an Academic Job	Levis 3rd Floor	12:00 PM–1:00 PM
Monday, July 1 • Afternoon			
Sessions	Conservation Biology 2 (392–400)	DKH 114	1:15 PM–3:30 PM
	Development & Evolution 2 (401–408 & 165)	Everitt 151	1:15 PM–3:30 PM
	Inbreeding (410–416)	Burrill 124	1:15 PM–3:30 PM
	Phylogenetic Theory & Methods 1 (417–425)	Wohlers 141	1:15 PM–3:30 PM
	Population Genetics 3 (426–434)	Lincoln 192	1:15 PM–3:30 PM
	Sexual Selection 1 (435–443)	ASL 150	1:15 PM–3:30 PM
	Dobzhansky Prize Talk	Foellinger	2:55 PM–3:30 PM
	Break	Union/Foellinger	3:30 PM–4:00 PM
	SSB Presidential Address	Foellinger	4:00 PM–5:00 PM
	SSB General Business Meeting	Foellinger	5:00 PM–6:30 PM
	Poster Session:	Union–Illini Rooms A–B	7:00 PM–9:00 PM
	Evolution Film Festival	Foellinger	7:00 PM–8:30 PM

Tuesday, July 2 • Morning

Registration		Union–South Lounge	8:00 AM–5:00 PM
Sessions	Quantitative Genetics 1 (444–449)	DKH 114	8:30 AM–10:00 AM
	Evolution of Behavior (456–460)	Everitt 151	8:30 AM–10:00 AM
	Phylogenetic Theory & Methods 2 (466–471)	MSEB 100	8:30 AM–10:00 AM
	Population Genetics 4 (478–483)	Transport 103	8:30 AM–10:00 AM
	Sexual Selection 2 (490–494)	ASL 150	8:30 AM–10:00 AM
	Hybridization 2 (501–506)	Burrill 124	8:30 AM–10:00 AM
Break		Union/Foellinger	10:00 AM–10:30 AM
	Quantitative Genetics 1 (cont.) (450–455)	DKH 114	10:30 AM–12:00 PM
	Evolution of Behavior (cont.) (461–465)	Everitt 151	10:30 AM–12:00 PM
	Phylogenetic Theory & Methods 2 (cont.) (472–477)	MSEB 100	10:30 AM–12:00 PM
	Population Genetics 4 (cont.) (484–489)	Transport 103	10:30 AM–12:00 PM
	Sexual Selection 2 (cont.) (495–500)	ASL 150	10:30 AM–12:00 PM
	Invertebrate Life History Evolution (507–512)	Burrill 124	10:30 AM–12:00 PM

Tuesday, July 2 • Afternoon

Sessions	Ecological Genetics of Plants (513–521)	ASL 150	1:15 PM–3:30 PM
	Phylogeography/Geographic Variation 2 (522–528)	Burrill 124	1:15 PM–3:30 PM
	Genomics 2 (529–537)	Everitt 151	1:15 PM–3:30 PM
	Phylogenetic Theory & Methods 3 (538–546)	MSEB 100	1:15 PM–3:30 PM
	Phylogenetics & Systematics (547–555)	DKH 114	1:15 PM–3:30 PM
Break		Union/Foellinger	3:30 PM–4:00 PM
SSE Presidential Address		Foellinger	4:00 PM–5:00 PM
Banquet, including presentation of Mayr student awards		Union Ballroom	6:00 PM–9:00 PM

Scientific Program • Oral Presentations

*After the title indicates a candidate for the Ernst Mayr Student Award

The institution is for the first author only

Saturday June 29 AM

SSE Symposium

Green Evolution: Evolutionary Theory and Results in Agricultural Systems Natural History 228

Organizers: Jay Evans & Sonja Scheffer

8:15–8:30	1	Evolutionary insights from and for agricultural systems J. Evans. Bee Research Lab. USDA-ARS
8:30–9:00	2	Molecular systematics in agriculture: Cryptic species and geographic origins of invasive leafminers S. Scheffer. USDA, Systematic Entomology Lab
9:00–9:30	3	Genetics and phylogeography of Colorado potato beetle colonization of the potato ecosystem D. J. Hawthorne. University of Maryland
9:30–10:00	4	Autocidal pest control: The population genetics of self destruction F. Gould & P. Schliekelman. North Carolina State University
10:15–10:45	5	Overdominance and animal breeding programs J. Mitton. University of Colorado
10:45–11:15	6	Genetic approaches to understanding and manipulating honey bee behavior R. E. Page. University of California, Davis
11:15–11:45	7	Evolutionary ecology of legume-rhizobium interactions: management implications E. L. Simms, J. D. Bever, & D. Lee Taylor. University of California, Berkeley
11:45–12:15	8	Comparative genetics and genomics of disease resistance genes across the Solanaceae M. Jahn. Cornell University

Development & Evolution 1 Wohlers 141

Session Moderator: Kevin Foster

8:30	9	The costs and benefits of chimerism K. R. Foster, A. Fortunato, J. E. Strassmann, & D. C. Queller. Rice University
8:45	10	Cooperation and conflict in chimeras of the social amoeba, <i>Dictyostelium discoideum</i> J. Strassmann, A. Fortunato, K. Foster, & D. C. Queller. Rice University
9:00	11	New insights into the molecular mechanism of <i>Wolbachia</i> -induced cytoplasmic incompatibility in <i>Drosophila</i> T. Karr, M. Clark, & C. Anderson. The University of Chicago
9:15	12	Evolution of the transcriptome in developmental trajectories i: Statistical and theoretical model J. Kim & S. Rifkin. Yale University
9:30	13	Evolution of the transcriptome in developmental trajectories ii: Microarray measurements of <i>Drosophila</i> metamorphosis S. Rifkin, J. Kim, & K. White. Yale University
9:45	14	Quantitative trait loci for organ weights and limb bone lengths in mice L. J. Leamy, D. Pomp, E. J. Eisen, & J. M. Cheverud. University of North Carolina at Charlotte
		Session Moderator: Laura Corley
10:30	15	The development and evolution of proliferation in a polyembryonic parasitoid wasp L.S. Corley & C.K. Rubio. Washington State University
10:45	16	Developmental constraint in drosophilid spermtail evolution M. G. Nielsen & E. C. Raff. University of Dayton
11:00	17	Abdominal pigmentation in <i>Drosophila</i> of the <i>cardini</i> subgroup: natural variation, ecological correlations, and developmental considerations J. A. Brisson, D. De Toni, & I. Duncan. Washington University

11:15	18	The genetic basis of pigmentation differences between <i>Drosophila americana</i> and <i>D. novamexicana</i> B.L. Williams, P.J. Wittkopp, J.E. Selegue, & S.B. Carroll. Howard Hughes Medical Institute / University of Wisconsin
11:30	19	Effects of pleiotropy on simultaneous evolution of multiple traits W. Just & F. Zhu. Ohio University
11:45	20	The role of ontogeny in parallel speciation of scincid lizards J. Richmond. University of Connecticut

Evolution of Sex

Bevier 180

Session Moderator: Mark Dybdahl

8:30	21	The genetic basis of host-parasite coevolution: matching alleles, epistasis, and hybrid breakdown in parasite local adaptation M. Dybdahl, C. Lively, & J. Jokela. Washington State University
8:45	22	An experimental test of recombination in dengue virus: implications for vaccine design K. Hanley, L. Manlucu, J. Blaney, B. Murphy & S. Whitehead. LID/NIAID/NIH
9:00	23	Exactly when is sex environmentally determined?: pattern and process revisited N. Valenzuela, D.C. Adams, & F.J. Janzen. Iowa State University
9:15	24	An unusual sex ratio distortion associated with an unusual system of mitochondrial DNA inheritance: the case of the blue mussel <i>Mytilus</i> E. Kenchington, B. MacDonald, L. Cao, D. Tsagarakis, & E. Zouros. Institute of Marine Biology of Crete, Greece
9:30	25	Evolution of gender and sex chromosomes via nuclear methylation driving Muller's ratchet R. Gorelick. Arizona State University
9:45	26	The deleterious mutational hypothesis and the evolution of sex R. McBride, M. Travisano & D. Grieg. University of Houston

Mutations

Bevier 180

Session Moderator: Christine Spencer

10:30	27	Do lab-derived mutant genes function in wild-caught strains of <i>Drosophila</i> ? C. C. Spencer, C. E. Howell, A. R. Wright, & D. E. L. Promislow. University of Georgia
10:45	28	Six years of mutation-accumulation in <i>C. elegans</i> : observations and analysis L.L. Vassilieva. University of Utah
11:00	29	Spontaneous mutation accumulation for life history traits in grape phylloxera D. Downie. University of California, Davis
11:15	30	Evidence for low dominance of mildly deleterious mutations in <i>Drosophila</i> J. D. Fry & J. P. Masly. University of Rochester
11:30	31	Mutation accumulation and mutational covariances among behavior, morphology and fitness in <i>C. elegans</i> B. Ajie, S. Estes, M. Lynch, & P.C. Phillips. University of Oregon
11:45	32	Natural variation in cytosine methylation—a QTL approach N. C. Riddle & E. J. Richards. Washington University

Molecular Evolution 1

DKH 114

Session Moderator: Ester Betrán

8:30	33	Evolution of retroposed genes E. Betrán. University of Chicago
8:45	34	The genetic basis of flower color transitions in <i>Ipomoea</i> R.A.Zufall & M.D.Rausher. Duke University
9:00	35	Molecular evolution and quantitative variation in the chemosensory signal transduction pathway in caenorhabditid nematodes P.C. Phillips & R. Jovelin. University of Oregon
9:15	36	Molecular evolution of the HoxA cluster in the three major gnathostome lineages. C-h. Chiu, C. Amemiya, K. Dewar, Frank Ruddle, & Gunter Wagner. Rutgers University
9:30	37	Recombination significantly increases genomic GC content J. A. Birdsell. University of Arizona

Saturday June 29 AM, continued

9:45	38	Molecular evolution at mutation-selection-drift equilibrium in the bacteriophage phi6 D. Weinreich, D. Hartl, & L. Chao. Harvard University
Session Moderator: David Remington		
10:30	39	Genomic insights into AUX/IAA gene family evolution in <i>Arabidopsis</i> D.L. Remington, T.J. Vision, & J.W. Reed. North Carolina State University
10:45	40	Experimental evolution of gene duplicates A. K. Holloway. University of Texas, Austin
11:00	41	Evolution of a phytochrome gene pair in <i>Arabidopsis</i> ecotypes K. McBreen & S. Mathews, University of Missouri
11:15	42	Molecular evolution of the insect chemoreceptor superfamily in the <i>Drosophila melanogaster</i> and <i>Anopheles gambiae</i> genomes H.M. Patch & H.M. Robertson, University of Illinois at Urbana-Champaign
11:30	43	The codon-degeneracy model: a generally applicable measure of departure from random expectations based on patterns of codon degeneracy D. A. McClellan. Brigham Young University
11:45	44	Functional evolution of JGW J. Zhang, A. Dean, A. Llopart, & M. Long. The University of Chicago

Invertebrate Phylogenetics & Systematics I

Greg 112

Session Moderator: Eric Larsen

8:30	45	Phylogenetics of giant water bugs (Belostomatidae): does size matter? E. Larsen. University of Chicago
8:45	46	Phylogeny of the Nicrophorinae (Coleoptera: Silphidae): Evidence from morphological and mtDNA data* D. Sikes. University of Connecticut
9:00	47	Phylogenetics of Trigynaspida (Acari: Mesostigmata): morphology, molecules, and hosts* C-M. Kim. Ohio State University

9:15	48	Cophylogeny of parasitoid wasps and their symbiotic polydnnaviruses A. Michel-Salzat & J.B. Whitfield. University of Illinois, Urbana-Champaign
------	----	--

9:30	49	CAD: A new nuclear coding gene for addressing rapid Mesozoic divergences J. K. Moulton & B. M. Wiegmann. North Carolina State University
9:45	50	The systematics of Australian <i>Daphnia</i> and <i>Daphniopsis</i> : a shared phylogenetic history with varying rates of molecular evolution J. Colbourne, C. Wilson, & P.D.N. Hebert. Indiana University

Session Moderator: David Marshall

10:30	51	Rapid and convergent evolution of acoustic sexual signals in New Zealand cicadas D. C. Marshall. University of Connecticut
10:45	52	Molecular systematics and evolution of dung beetles A.P. Vogler, D. Inward, J. Mate, C. Wilsher. The Natural History Museum, London
11:00	53	Time flies: A revised time scale for fly evolution B. M. Wiegmann, D. K. Yeates, J. Thorne & H. Kishino. North Carolina State University
11:15	54	Mummy fleas on modern trees: A phylogeny of the <i>Pulex irritans/simulans</i> species complex K. Dittmar de la Cruz & M. Whiting. Brigham Young University, Zoology
11:30	55	Systematics of the Zoantharia (Cnidaria:Anthozoa) M. Daly & D.G. Fautin. University of Kansas
11:45	56	Evolutionary history of the branchiopod Crustacea J. deWaard, V. Sacherova, M. Cristescu, E. Remigio, T. Crease, & P. Hebert. University of Guelph

Vertebrate Phylogeography / Geographic Variation

Greg 100

Session Moderator: Kevin Rowe

8:30	57	Mitochondrial phylogeography of western lowland gorillas (<i>Gorilla gorilla gorilla</i>) N. Anthony, S. Clifford, M. Johnson-Bawe, K. Abernethy, L. White, K. Jeffery, C. Tutin, J. Wickings and M. Bruford. Cardiff University, Wales
------	----	--

8:45	58	Congruent and independent phylogeographic patterns in two eastern North American frogs (<i>Pseudacris crucifer</i> and <i>Rana catesbeiana</i>) J. Austin, P. Boag, & S. Lougheed. Queen's University
9:00	59	Looking back in time through the mitochondrial DNA kaleidoscope: Origin and demographic history of a bull trout (<i>Salvelinus confluentus</i>) and dolly varden (<i>Salvelinus malma</i>) hybrid zone A.E. Elz & EB Taylor. University of British Columbia
9:15	60	Phylogeographic support for the importance of rivers as dispersal corridors in eastern chipmunks K.C. Rowe, K.N. Paige, & E.J. Heske. University of Illinois at Urbana-Champaign
9:30	61	Genetic variability and biogeographic patterns in the Andean condor (<i>Vultur gryphus</i>) S. Hendrickson. University of Wisconsin
9:45	62	Drainage evolution and phylogeographic diversification in eastern north american plethodontid salamanders K.H Kozak & A. Larson. Washington University
<i>Session Moderator: James Novak</i>		
10:30	63	Moved to Tuesday, July 2 PM (see page 38).
10:45	64	Evolutionary dynamics of organismal form among populations of white-tailed deer J.M. Novak & M. H. Smith. Savannah River Ecology Lab
11:00	65	Using Geographic Information Systems (GIS) and phylogenetics to understand species distribution patterns L. Rissler, University of California, Berkeley
11:15	66	Monkeys and toads define areas of genetic endemism on the island of Sulawesi, Indonesia. B. J. Evans, J. Supriatna, D. C. Cannatella, & D. J. Melnick. Columbia University
11:30	67	A comparative analysis of population structure in caribbean <i>Anolis</i> lizards R. Glor, R. Powell & A. Larson. Washington University
11:45	68	Comparative phylogeography of the Madrean Archipelago: historical habitat connectivity and genetic variation in sky island reptiles K. R. Zamudio, H. W. Greene, & A. M. Wieczorek. Cornell University

Saturday June 29 PM

Evolution Education Symposium

Teaching Socially Relevant Examples of Evolution Foellinger

Organizer: Michael Antolin

1:15-1:30	69	Recent events in science education M. Antolin. Colorado State University
1:30-2:00	70	Overview: Where knowledge of evolution is applied in society H. Wichman. University of Idaho
2:00-2:30	71	Evolutionary application in biotechnology J. Bull. University of Texas, Austin
2:30-3:00	72	Teaching tree thinking with forensic applications J. Herron. Department of Zoology, University of Washington
3:30-4:00	73	Agriculture, biogeography, and origins of genetic variation M. Antolin. Colorado State University

Education

Foellinger

Session Moderator: Jennifer Hurley O'Hara

4:00	74	Teaching about Evolution M. Condon & J. Hurley O'Hara (co-presenters). Cornell College
4:15	75	Teaching about Evolution M. Condon & J. Hurley O'Hara (co-presenters). Cornell College
4:30	76	Evolution labs and hands-on experiences across a college curriculum B. Brodman. Saint Joseph's College

Adaptation

Wohlers 141

Session Moderator: Daniel Heath

1:15	77	Rapid genetic divergence among salmon populations at functional marker loci relative to neutral loci D.D. Heath, R. Hepburn, S. Brode, & M. Docker. GLIER, University of Windsor
------	----	---

Saturday June 29 PM, continued

- 1:30 78 Building 'em big and slow: alternative developmental mechanisms influence growth rate and swimming speeds in tadpoles
J. D. Arendt. University of California, Riverside
- 1:45 79 Antipredator adaptation in Colubrinae (Serpentes): integration of color pattern and body shape
D. Creer. Washington University
- 2:00 80 The genetics of adaptation: The distribution of fixed mutational effects on measurable traits is not generally exponential
C.K. Griswold & M.C. Whitlock. University of British Columbia
- 2:15 81 The power (or lack thereof) of regression approaches to detecting selection in natural populations
E. Hersch & P.C. Phillips. University of Oregon
- 2:30 82 Evolution of hypercarnivory: The effect of specialization on character change
J. Holliday & S. Steppan. Florida State University
- 2:45 83 Ecological specialization and adaptive decay in digital organisms
E.Ostrowski, C.Ofria, & R. Lenski. Michigan State University

Session Moderator: Jessica Wright

- 3:30 84 Local adaptation to serpentine soils in *Collinsia sparsiflora*: A story of morphology, phenology and physiology
J. Wright, M. Stanton, R. Scherson & D. Thiede. University of California, Davis
- 3:45 85 Introgression of possibly adaptive QTL across a species barrier in sunflower
R. A. Randell, S.-C. Kim, & L. H. Rieseberg. Indiana University
- 4:00 86 Cancelled
- 4:15 87 Phenotypic evolution in fossil sticklebacks and the form of adaptive landscapes
M. Travis & M.A. Bell. SUNY Stony Brook
- 4:30 88 Chance and necessity in molecular evolution: the genetic basis for adaptation in the long-term *E. coli* experiment*
R. Woods. Michigan State University

- 4:45 89 The evolution of enucleated red blood cells in the salamander genus *Batrachoseps**
R. L. Mueller. Museum of Vertebrate Zoology, University of California, Berkeley

Agriculture

Natural History 228

Session Moderator: Johanne Brunet

- 1:15 90 Pathogens, frequency-dependent selection, and genetic polymorphisms: an experimental test
J. Brunet & C. Mundt. Oregon State University
- 1:30 91 How herbivores increase the cost of resistance to herbicide
A. J. Gassmann. SUNY-Stony Brook
- 1:45 180 Non-equilibrium cline models for *in-situ* manipulative studies of adaptation and dispersal
A. H. Porter & M. B. Baker. University of Massachusetts-Amherst
- 2:00 93 Associative nitrogen fixation in C4 grasses and the evolution of spittlebugs as sugar cane and pasture pests
V. Thompson. Roosevelt University
- 2:15 94 Evolutionary trends in *Polaskia chichipe* (Cactaceae) under domestication in the Tehuacan Valley, Central Mexico*
A. Otero, A. Casas, C. Bartolo, E. Perez-Negrón, & A. Valiente. UNAM National University of Mexico
- 2:30 95 Phylogeography of *Oryza sativa* using the Waxy gene: evidence on the origin of glutinous rice
K. Olsen & M. Purugganan. North Carolina State University

Mating Systems/Breeding Systems, Plants

Natural History 228

Session Moderator: Barbara Mable

- 3:30 96 Self-incompatibility in polyploids: What happens in sporophytic systems?
B.K. Mable. University of Guelph
- 3:45 97 Mating systems in transition: transient self-incompatibility in *Leptosiphon jepsonii*
C. Goodwillie, K. L. Partis, & J. West. East Carolina University
- 4:00 98 Hybridization and sex ratio evolution in *Nemophila menziesii**
C. M. Barr. University of California, Irvine

4:15	99	Geographic structure of variation in pollinator communities and breeding system evolution in <i>Clarkia xantiana</i> D. Moeller. Cornell University	3:45	110 The genetic basis of reproductive isolation in house mice: differential introgression of markers on the X chromosome across a European hybrid zone B. A. Payseur & M. W. Nachman. University of Arizona
4:30	100	Fickle sex expression in selfing vs. outcrossing <i>Clarkia</i> species S. J. Mazer & V. A. Delesalle. University of California, Santa Barbara	4:00	111 Large scale duplicate gene expression in yeast and nematode Z. Gu, D. Nicolae, & W. Li. University of Chicago
4:45	101	Cancelled		
<hr/>				
Genomics 1 DKH 114				
Session Moderator: Keith Adams				
1:15	102	Differential and unequal expression of genes duplicated by polyploidy during the evolution of tetraploid cottons K. Adams, R. Cronn, & J. Wendel. Iowa State University	4:15	112 Exploring the human mutome: Sequence sensitive mutational biases across the human genome A. Platt. Harvard University
1:30	103	Horizontally transferred genes in plant-parasitic nematodes E. H. Scholl, D. M. Bird & J. L. Thorne. North Carolina State University	4:30	113 Neighboring-nucleotide effects on single nucleotide polymorphisms (SNPs) in human genome Z. Zhao & E. Boerwinkle. University of Texas, Houston Health Science Center
1:45	104	<i>Drosophila</i> and the evolution of transcription profiles C.D. Meiklejohn, J. Parsch, J.M. Ranz, & D.L. Hartl. Harvard University	4:45	114 Genome wide rates of deletion in <i>Drosophila</i> J. Blumenstiel, E. Lozovsky, & D. Hartl. Harvard University
2:00	105	Evolutionary dynamics of rodent microsatellites M.I. Jensen-Seaman, C.-F. Chen, J. Lu, M.A. Thomas, S. Twigger, P.J. Tonellato, & H.J. Jacob. Medical College of Wisconsin		
2:15	106	Linkage disequilibrium around G6pd and the signature of malarial selection in humans M.A. Saunders, M.F. Hammer, & M.W. Nachman. University of Arizona		
2:30	107	Cancelled	1:15	115 Testing mitochondrial DNA phylogenies for closely related species: microsatellite data for ravens K. E. Omland, C. Feldman, J. Marzluff. University of Maryland Baltimore County
2:45	108	Effects of Wolbachia on fecundity, longevity, and expression profiles in <i>D. melanogaster</i> A.J. Fry & D.M. Rand. Brown University	1:30	116 New nuclear intron agrees with mitochondrial phylogeny: support for plumage convergence in orioles (<i>Icterus</i>) E. S. Allen, & K. E. Omland. Indiana University
3:30	109	Likelihood estimation of parameters of gene family evolution L. Dubb, & J. Felsenstein. University of Washington	1:45	117 Cancelled
Session Moderator: Lindsey Dubb				
			2:00	118 The evolution of migration in Motacillidae* G. Voelker & D. C. Outlaw. Barrick Museum of Natural History
			2:15	119 Recent speciation and gene coalescence: The evolution of monophyly in New World orioles* J. M. Baker & K. E. Omland. University of Maryland, Baltimore County

Saturday June 29 PM, continued

2:30	120 Patterns of speciation and continental affinities of antillean amazon parrots (Genus <i>Amazona</i>) M. Russello, R. DeSalle, & G. Amato. CU/Wildlife Conservation Society	1:45	130 Geographic morphological and genetic variation among populations of the leaf beetle <i>Chrysomela aeneicollis</i> S. Fearnley, J. Lundblad, & N. Rank. Sonoma State University
2:45	121 Relative rates of molecular evolution in the avian mitochondrial cytochrome b gene: a reevaluation of the body mass correlation* C. Witt. Louisiana State University	2:00	131 Phylogeography of the desert spider, <i>Agelenopsis aperta</i> : evolutionary inferences at the population species interface* N. Ayoub. University of Tennessee, Knoxville
		2:15	132 Species radiation on islands: the bulimulid land snails of Galapagos C. Parent, & B.J. Crespi. Simon Fraser University
	<i>Session Moderator: John Wiens</i>		133 Geographic scale of the X-drive interaction system in <i>Drosophila neotestacea</i> K. Dyer & J. Jaenike. University of Rochester
3:30	122 Paedomorphosis and higher-level salamander phylogeny J. J. Wiens. Carnegie Museum of Natural History	2:30	134 Historical biogeography of the western and mexican corn rootworms <i>Diabrotica virgifera virgifera</i> and <i>D.v. zeae</i> R. Giordano, L. Clark & R. Alvarez-Zagoya. University of Vermont
3:45	123 Evolutionary ecology of the pharyngeal jaw polymorphism in the cichlid fish <i>Herichthys minckleyi</i> D. Hulsey, D. Hendrickson, & F. García de León. University of California-Davis	2:45	
4:00	124 High-level molecular phylogeny of ray-finned fishes G. Orti and W-J. Chen. University of Nebraska	3:00	<i>Session Moderator: Charles Ross</i>
4:15	125 Phylogenetic relationships among extant catfishes (Otophysi: Siluriformes): a report based on molecular data* M. Hardman. Illinois Natural History Survey	3:30	135 Population structure of <i>Drosophila mojavensis</i> based on microsatellite loci C.L. Ross, T.A. Markow. University of Arizona
4:30	126 Phylogenetic relationships of labrid fishes: integration of molecular, morphological and functional data M. Westneat & M. Alfaro. Field Museum of Natural History	3:45	136 Effects of post-glacial range expansion on molecular and quantitative genetic variation in an intertidal copepod S. Edmands & J.S. Harrison. University of Southern California
4:45	127 Importance of highly incomplete fossil taxa for the study of zemorph relationships (Teleostei, Pisces)* F. Santini. University of Toronto	4:00	137 Geographic variation of anonymous rare-cutter restriction fragments in the American oyster, <i>Crassostrea virginica</i> J.H. McDonald. University of Delaware
		4:15	138 Phylogeography of the marine bryozoan <i>Membranipora membranacea</i> : Assessing population history, dispersal routes and taxonomy H. R. Schwaninger. Agricultural Research Service, USDA

Invertebrate Phylogeography / Geographic Variation

Greg 100

Session Moderator: Cliff Cunningham

1:15	128 A research coordination network to study the historical ecology of the trans-Atlantic marine biota C. Cunningham. Duke Biology	4:30	139 Evolutionary genetics of invasive species Carol Eunmi Lee. University of Wisconsin, Madison
1:30	129 Phylogeography in a galling insect in the fragmented habitat of the US Southwest D. Downie. University of California, Davis	4:45	140 Quantitative and molecular genetic patterns of hybrid incompatibility in the beetle <i>Tribolium castaneum</i> J. Demuth & M. Wade. Indiana University

Speciation I		4:00	150 Genetic architecture of floral trait differences in dioecious <i>Silene</i> (Caryophyllaceae)
<i>Mumford 103</i>			A. Widmer & L.H. Rieseberg. Indiana University, Bloomington
<i>Session Moderator: Jeffery Feder</i>			
1:15	141 Are “speciation” genes necessarily the holy grail for species phylogenies?	4:15	151 Cancelled
	J. Feder, D. Ortiz-Barrientos, M. Noor. University of Notre Dame	4:30	152 Hybrid speciation in yeast
1:30	142 Microvicariance and accelerated molecular diversification: crustaceans in desert springs	4:45	153 Host-associated genetic differentiation in the goldenrod elliptical-gall moth
	J. Witt, D. Threlloff, & P. Hebert. University of Guelph		J. Nason, S. Heard, & F. Williams. Iowa State University
1:45	143 The geographical mosaic of speciation in pea aphids	6:00-7:00	<i>Outreach Seminar • Foellinger</i>
	S. Via. University of Maryland		The importance of rapid evolution in health, agriculture and biotechnology
2:00	144 Using AFLPs to reconstruct the history of speciation in <i>Laupala</i>		Stephen R. Palumbi, Harvard University
	T. C. Mendelson & K. L. Shaw. University of Maryland		
2:15	145 The history of Pleistocene climate change in the American deserts revisited: Clocks, clades and biogeography in the longhorn cactus beetles*		
	C. I. Smith & B. D. Farrell. Harvard University		
2:30	146 Gamete recognition in hybridizing <i>Mytilus</i> populations: Toward a molecular test of reinforcement	8:20-8:30	154 Introductory Remarks
	S. A. Springer, & B. J. Crespi. Simon Fraser University	8:30-9:00	155 An introduction to trees and networks
2:45	147 Are human head and body lice products of sympatric speciation?		D. Penny. Institute of Molecular Biosciences, Massey University
	D. Reed and D. Clayton. Dept. of Biology, Univ. of Utah	9:00-9:30	156 Haplotype networks: New uses for an old technique
			A. Templeton. Washington University
<i>Session Moderator: Jeffery McKinnon</i>		9:30-10:00	157 Phylogeography of leaf beetles at different geographic scales
3:30	148 Ecology, body size and speciation in sticklebacks from five continents and islands		P. Mardulyn. Free University of Brussels
	J. S. McKinnon, S. Mori & D. Schluter. University of Wisconsin-Whitewater	10:00-10:30	Break
3:45	149 Impacts of predation on the fitness of sympatric sticklebacks and their hybrids	10:30-11:00	158 Representing complex evolutionary relationships with median networks
	S.M. Vamosi & D. Schluter. Department of Zoology, University of Toronto		K. Huber. Swedish University of Agricultural Sciences
		11:00-11:30	159 Phylogenetic networks: splits-graphs and beyond
			V. Moulton. Uppsala University
		11:30-12:00	160 Neighbor-Net
			D. Bryant. McGill University

Sunday June 30 AM

SSB Symposium

Networks: Visualizing Complex Phylogenetic Patterns *Natural History 228*

Organizers: Sydney Cameron, James Whitfield, and Peter Lockhart

8:20-8:30	154 Introductory Remarks
8:30-9:00	155 An introduction to trees and networks D. Penny. Institute of Molecular Biosciences, Massey University
9:00-9:30	156 Haplotype networks: New uses for an old technique A. Templeton. Washington University
9:30-10:00	157 Phylogeography of leaf beetles at different geographic scales P. Mardulyn. Free University of Brussels
10:00-10:30	Break
10:30-11:00	158 Representing complex evolutionary relationships with median networks K. Huber. Swedish University of Agricultural Sciences
11:00-11:30	159 Phylogenetic networks: splits-graphs and beyond V. Moulton. Uppsala University
11:30-12:00	160 Neighbor-Net D. Bryant. McGill University

Sunday June 30 AM, continued

Comparative Biology

Wohlers 141

Session Moderator: Manda Clair Jost

- 8:30 161 Phylogeny, ontogeny, and parallel evolution in silent crickets (Orthoptera)
M.C. Jost, & K.L. Shaw. Harvard University
- 8:45 162 Multivariate analyses of comparative data
F. J. Rohlf. SUNY Stony Brook
- 9:00 163 Evolution of A4-lactate dehydrogenase in warm-stenothermal environments: investigating biochemical adaptation in damselfishes (Pomacentridae)
G. C. Johns & G. N. Somero. Stanford University
- 9:15 164 New evidence concerning avian digit homology
H. Larsson & G. Wagner. University of Toronto /Yale University
- 9:30 409 Ontogeny and evolution in marsupial and placental mammals: Testing constraints
K. Sears. University of Chicago
- 9:45 166 Discordant evolution of scapula shape and forelimb function in squirrels
D. L. Swiderski. University of Michigan

Macroevolution

Wohlers 141

Session Moderator: Christopher Mah

- 10:30 167 A cladistic analysis of the Goniasteridae (Asteroidea; Echinodermata): Phylogeny, fossils, and biogeography*
C. Mah. Geology Dept. University of Illinois at Urbana-Champaign
- 10:45 168 Morphological modularity and macroevolution: from organism to morphospace
G. Eble. KLI, Austria / CNRS, France
- 11:00 169 Homologous structures in the male genitalia of therevine stiletto flies
M. A. Metz. University of Illinois at Urbana-Champaign
- 11:15 170 A null model of morphospace occupation
M. R. Pie & J. S. Weitz. Department of Biology, Boston University

- 11:30 171 Grass evolution: new insights using molecules and fossils*
N. Salamin, T. R. Hodkinson, & V. Savolainen. Trinity College
- 11:45 172 Macroevolutionary patterns of adaptive radiation using four iguanian lizard clades
J. A. Schulte II, L. J. Harmon, & J. B. Losos. Smithsonian Institution
-
- Ecological Genetics 1*
Bevier 180
- Session Moderator: Michael Bell
- 8:30 173 Twelve years of rapid evolution in a threespine stickleback population
M.A. Bell, W.E. Aguirre, & N.J. Buck. Ecol. & Evol., SUNY Stony Brook
- 8:45 174 Identification of QTL that affect oral jaw morphology in cichlid fishes
C. Albertson. University of New Hampshire
- 9:00 175 Cancelled
- 9:15 176 Divergence for thermal performance and thermal preference among natural isolates of the nematode, *C. elegans*
C. Peden & P.C. Phillips. University of Oregon
- 9:30 177 Physiological and survival consequences of PGI variation in a montane leaf beetle
E. Dahlhoff, D. McMillan, & N. Rank. Santa Clara University
- 9:45 178 Why are ecological replacement species so similar?
T. Hrbek. University of Konstanz
- Session Moderator: Nathan Rank
- 10:30 179 Shifts in PGI frequency after climate change in a montane insect
N. Rank & E. Dahlhoff. Sonoma State University
- 10:45 92 Genetics and physiology of drought adaptation in *Arabidopsis thaliana*: natural variation, QTL, NILs and transformants
J. K. McKay, J. H. Richards, & T. Mitchell-Olds. University of California, Davis
- 11:00 181 Local and global phylogeography of host use in an introduced parasitoid wasp
C. Baer & M. Antolin. Indiana University
- 11:15 182 On a genetic model of intraspecific competition and stabilizing selection
R. Burger. University of Vienna

11:30	183	Disease ecology of <i>Escovopsis</i> , a co-evolved pathogen of fungus-growing ant symbioses*	11:15	193	Precociality and developmental rate M. L. Zelditch, B. L. Lundrigan, & H. D. Sheets. University of Michigan
	N. Gerardo, U. Mueller, & C. Currie. University of Texas		11:30	194	Modeling host-parasite coevolution using a nested set of mechanistic models M. A. Gilchrist & A. Sasaki. Dept. of Biology, University of New Mexico
11:45	184	Enormous populations and ancient species of Neotropical frogs inferred from DNA sequence data A. J. Crawford. Smithsonian Tropical Research Institute	11:45	195	Evolution and environmental interactions of life history traits in resynthesized polyploid <i>Brassica napus</i> E. Schranz, L. Lukens, & T. Osborn. University of Wisconsin, Madison
<hr/>					
Life History Evolution Mumford 103					
Session Moderator: Hugh Dingle					
8:30	185	Evolution on a fast track: genetic architecture of host induced adaptations in a seed bug (<i>Jadera hematoloma</i>) H. Dingle, S.P. Carroll, & T.R. Famula. University of California, Davis	8:30	196	Likelihood analysis of asymmetrical mutation bias in mitochondrial genomes J.J. Faith & D.D. Pollock. Louisiana State University
8:45	186	The effect of juvenile body size on adult success of an acanthocephalan parasite M. L. Steinauer. University of Nebraska, Lincoln	8:45	197	Genomic biodiversity in squamate mitochondria F. Burbrink, J. Faith, & D. Pollock. Louisiana State University
9:00	187	Analysis of pleiotropic fitness effects at the insulin receptor locus M.R. Palmer, D.M. Rand, & M. Tatar. Brown University	9:00	198	Accelerated mtDNA rate in brood parasitic finches: a case of nearly neutral evolution? C.N. Balakrishnan, D. Mercer, M.D. Sorenson. Boston University
9:15	188	Multiple trait selection in <i>Drosophila</i> : Simultaneous evolution of faster development and elongated life span N. G. Prasad, M. Shakarad, M. Rajamani, & A. Joshi. Jawaharlal Nehru Centre for Adv Scientific Res	9:15	199	Molecular evolution of Eeyore and nine other human genes derived from Tigger/pogo H. Robertson, B. Williams, K.K.O. Walden, & D. Witherspoon. University of Utah
9:30	189	Evolution of late-life fecundity C. Rauser, J. Tierney, S. Gunion, L. Mueller, & M. Rose. University of California, Irvine	9:30	200	Adaptive evolution of electron transport chain genes in anthropoid primates D.E. Wildman, J.W. Doan, A. Goldberg, M. Hüttemann, T.R. Schmidt, M.H. Yu, M. Goodman, & L.I. Grossman. Wayne State University
Session Moderator: David Reznick					
10:30	190	Death III: The evolution of senescence in guppies—the final episode? D. Reznick & D. Elder. Department of Biology, University of California, Riverside	9:45	201	Rapid evolution in the photosensory domain of phytochrome A in early angiosperms S. Mathews, J. G. Burleigh, & M. J. Donoghue. University of Missouri-Columbia
10:45	191	Local adaptation of offspring size in the Trinidadian guppy: The role of competition F. Bashey. University of California, Riverside			
11:00	192	Evolution of clutch size in tropical birds: correlative and experimental evidence J. Brawn & J. Nesbitt. University of Illinois / Illinois Natural History Survey	10:30	202	Climate affects rates of molecular evolution W. Bradshaw. University of Oregon

Sunday June 30 AM, continued

10:45	203 The evolution of introns M. Lynch. Indiana University	9:45	213 Andean phylogeography in the <i>Phyllotis darwini</i> species group (leaf-eared mice) and identification of an 11,700 year old packrat midden S. Stepan, M. Kuch, C. Lattore, A. Spotorno, & H. Poinar. Florida State University
11:00	204 Cytonuclear coadaptation in <i>Drosophila</i> : disruption of cytochrome oxidase activity in backcross genotypes T. B. Sackton & D. M. Rand. Brown University		<i>Session Moderator: Lynn Anderson</i>
11:15	205 Evolution of mitochondrial gene rearrangement in Bivalvia (Mollusca): an examination of phylogenetic signal and evolutionary models J.M. Serb. University of Alabama	10:30	214 A molecular-genetic approach to understanding the migration history of <i>Picea</i> (spruce) in North America L.L. Anderson, F.S. Hu, & K.N. Paige. University of Illinois at Urbana-Champaign
11:30	206 Evidence for gene conversion in the evolution of luciferases in bioluminescent click beetles of the genus <i>Pyrophorus</i> (Coleoptera: Elateridae). S. Velez, U. Stolz, J. Feder. University of Notre Dame	10:45	215 Evolutionary biogeography of the Hawaiian endemic <i>Lipochaeta</i> (Asteraceae) S. Jorgensen. Ohio University
11:45	207 An experimental test of the codon bias hypothesis D. Carlini & W. Stephan. American University	11:00	216 Did admixture among glacial refugial populations create the center of diversity in <i>Pinus resinosa</i> ? R. Walter. Michigan State University
		11:15	217 Genetic diversity among insular populations of white pine, <i>Pinus strobus</i> E. R. Myers. Michigan State University
		11:30	218 Testing the hypothesis of multiple lineages within <i>Trimorphodon biscutatus</i> using morphometric and mitochondrial DNA sequence data* T. Devitt. Louisiana State University
		11:45	219 Population structure and history of <i>Rana blairi</i> , the Plains Leopard Frog Y. Alva, E. J. Routman, & S. Masta. San Francisco State University

Phylogeography / Geographic Variation 1

Greg 100

Session Moderator: Tasha Belfiore

8:30	208 The phylogeography of Channel Island spotted skunks (<i>Spilogale gracilis amphiala</i>): an mtDNA assessment N. M. Belfiore, D. VanVuren, K. Crooks, & J. A. DeWoody. Purdue University
8:45	209 Not sampled but influent: missing haplotypes and the phylogeography of dusky dolphins (<i>Lagenorhynchus obscurus</i>) I. Cassens, K. Van Waerebeek, P. B. Best, E. A. Crespo, J. Reyes, M. C. Milinkovitch. Free University of Brussels
9:00	210 Phylochronology of an endemic tuco tuco species M. van Tuinen, Y. Chan, & E. A. Hadly. Stanford University
9:15	211 Phylochronology: Population genetics through space and time E. Hadly, M. van Tuinen, & C. Conroy. Stanford University
9:30	212 Cancelled

Speciation 2

Greg 112

Session Moderator: Irby Lovette

8:30	220 Contrasting patterns of diversification in temperate and tropical bird radiations I. J. Lovette. Cornell University
8:45	221 Evolution of microsatellites in an adaptive radiation of Hawaiian honeycreepers L.S. Eggert, A. McClung, J. Beadell, & R. Fleischer. Smithsonian Institution
9:00	222 Molecular evolution in the groupers and coraltrouts* J. Carlin. University of Florida

9:15	223	Speciation in the water lily <i>Nymphaea odorata</i> (Nymphaeaceae): A molecular and morphological analysis of North American populations* K. Niehaus, K.W. Hilu, T. Borsch, & J. Wiersema. Virginia Polytechnic Institute and State University	2:00-2:30	233	Evolutionary relationships and host switching in avian malaria parasites R. E. Ricklefs & S. M. Fallon. University of Missouri-St. Louis
9:30	224	Evolution of post-zygotic isolation in allopatry: functional evidence for cytonuclear coadaptation R. S. Burton. Scripps Institution of Oceanography	2:30-3:00	234	The origin and maintenance of a coevolved mutualism G. Weiblen. University of Minnesota
9:45	225	Genetic analysis of hybrid lethality in <i>Drosophila</i> D. Presgraves. University of Rochester	3:30-4:00	235	Coevolution of the brood parasitic finches (<i>Vidua</i> spp.) and their estrildid hosts M. D. Sorenson & R. B. Payne. Boston University
		<i>Session Moderator: Stephen Palumbi</i>	4:00-4:30	236	Biogeography explains cophylogenetic patterns in toucan lice J. Weckstein. Louisiana State University
10:30	226	How mutation and selection drive the evolution of gamete recognition genes S.R. Palumbi. Harvard University	4:30-5:00	237	The ecological basis of coevolutionary history D. H. Clayton, S. Al-tamimi, & K. P. Johnson. University of Utah
10:45	227	Evolutionary analysis of reproductive proteins in <i>Allonemobius</i> W.E. Braswell, W.J. Swanson, & D.J. Howard. New Mexico State University			<i>Conservation Biology I</i> <i>Natural History 228</i>
11:00	228	Both protein and carbohydrate structures ensure species-specific fertilization in sea urchins C. H. Biermann. Harvard University			<i>Session Moderator: Jason Koontz</i>
11:15	229	Odorant-binding proteins of <i>Rhagoletis</i> K. M. M. Ramsdell, S. H. Berlocher, & H. M. Robertson. University of Illinois at Urbana-Champaign	1:15	238	Host preferences and genetic diversity in the Illinois-threatened <i>Agalinis auriculata</i> (Scrophulariaceae) J. Koontz, B. Molano-Flores, M. A. Feist, & C. Whelan. Illinois Natural History Survey
11:30	230	Host-plant adaptation drives the parallel evolution of reproductive isolation P. Nosil, B.J. Crespi, & C. Sandoval. Dept. of Biosciences, Simon Fraser University	1:30	239	Effective population size and genetic drift in the clonal, self-incompatible plant <i>Hymenoxys herbacea</i> L.G. Campbell & B.C. Husband. Ohio State University

Sunday June 30 PM

SSB Symposium

Untangling Coevolutionary History

Foellinger

Organizers: Kevin P. Johnson and Dale H. Clayton

1:15-1:30	231	Untangling cophylogenetic patterns K. P. Johnson. Illinois Natural History Survey	2:00	241	Seed bank recruitment and its influence on population genetic structure of a regionally endangered prairie annual S. Lyons-Sobaski, S. Berlocher, & J. Beever. University of Illinois at Urbana-Champaign
1:30-2:00	232	Cospeciation of mutualistic bacteria and their ant hosts: Molecular evolution of <i>Camponotus</i> endosymbionts J. Wernegreen, P. H. Degnan, & A. B. Lazarus. JPB Center, Marine Biological Lab	2:15	242	Comparing traits in introduced invasive and non-invasive Asteraceae, from regions of origin and introduction N.Z. Muth & M. Pigliucci. University of Tennessee

Sunday June 30 PM, continued

2:30	243 Arizona cliffrose and the hybrid swarm: Does genetic isolation reflect adaptive variation? S. Travis, J. Baggs, & J. Maschinski. USGS National Wetlands Research Center	1:30	252 Pathoadaptive variation in <i>E. coli</i> : recent, recurrent, and recombinant M. Feldgarden, E. Sokurenko, & D. E. Dykhuizen. Dept. of Ecology & Evolution, SUNY Stony Brook
2:45	244 Conservation of genetic diversity in american ginseng under harvest pressure J. M. Cruse-Sanders & J. L. Hamrick. University of Georgia	1:45	253 Experimental evolution in extreme environments: Long-term evolution of <i>E. coli</i> under UV stress R. Goldman & M. Travisano. University of Houston
<i>Session Moderator: Cam Muir</i>			
3:30	245 Conservation implications of hybridization in Hawaiian picture wing <i>Drosophila</i> C. Muir, S. Moore, & D.K. Price. University of Hawai'i at Hilo	2:00	254 Evolution of expanded host range in bacteriophage of <i>Bacillus</i> : correlations with host range breadth and host phylogeny G. Krukonis & F. Cohan, Wesleyan University
3:45	246 Go west, young cyprid? Molecular markers, mean dispersal distance, and functional marine reserves E. Sotka & S. Palumbi. Harvard University	2:15	255 Trade-offs between niche breadth and resistance to predation in <i>E. coli</i> M. Quance & M. Travisano. University of Houston
4:00	247 Reconstructing the history of global dispersal in <i>Dreissena bugensis</i> , an invasive bivalve, using microsatellite markers T. Therriault. GLIER, Univ. of Windsor	2:30	256 The tempo of experimental evolution. F. B.-G. Moore. University of Akron
4:15	248 Effects of population size, environment, and pathogen resistance on fitness and extinction D. Dinh & M. Travisano. University of Houston	2:45	257 Ancient polymorphism and adaptive evolution in the trichothecene mycotoxin gene cluster of phytopathogenic <i>Fusarium</i> T. Ward, J. Bielawski, H. Kistler, E. Sullivan, and K. O'Donnell. USDA
<hr/>			
<i>Phenotypic Plasticity & GxE</i>			
<i>Wohlers 141</i>			
<i>Session Moderator: Joe Hereford</i>			
3:30	249 A cryptic species complex of gall wasps (Hymenoptera: Cynipidae: <i>Antistrophus</i> spp.) feeding in prairie perennials (Asteraceae: <i>Silphium</i> spp.) J. F. Tooker & L. M. Hanks. Dept. of Entomology, University of Illinois at Urbana- Champaign	3:30	258 Environmental dependence of environmental maternal effects in an annual plant, <i>Diodia teres</i> J. Hereford & K. Moriuchi. Florida State University
4:45	250 Demographic genetics of northern red oak and shumard oak from Indiana old growth forest P. Aldrich, G. Parker, C. Michler, & J. Romero- Severson. USDA Forest Service / Purdue University	3:45	259 Ecological and evolutionary implications of overcompensation in plants: the importance of nutrient level J. Banta, W. Denning, & M. Pigliucci. University of Tennessee
<hr/>			
<i>Evolution of Microorganisms</i>			
<i>Wohlers 141</i>			
<i>Session Moderator: Vaughn Cooper</i>			
1:15	251 Evolutionary ecology of virulence traits in <i>Vibrio cholerae</i> V. Cooper. University of Michigan	4:00	260 Phenotypic plasticity and integration in <i>Arabidopsis</i> M. Pigliucci & A. Kolodinska. University of Tennessee
<hr/>			
4:15	252 Pathoadaptive variation in <i>E. coli</i> : recent, recurrent, and recombinant M. Feldgarden, E. Sokurenko, & D. E. Dykhuizen. Dept. of Ecology & Evolution, SUNY Stony Brook	4:15	261 Environmental heterogeneity and plasticity of maternal provisioning: A case study in <i>Amphicarpaea bracteata</i> A.M. Wilczek & F.A. Bazzaz. Harvard University

4:30	262	Social stress and selective consequences of plasma corticosterone in female lizard morphs T. Comendant, B. Sinervo, E. Svensson, & J. Wingfield. University of California, Santa Cruz	Session Moderator: Laura Reed
4:45	263	Does it cost you?: Morphological plasticity versus genetic divergence across different levels of trophic polymorphism of <i>Lepomis gibbosus</i> K. Parsons & B.W. Robinson. University of Guelph	3:30 271 Early events in speciation: polymorphism for hybrid male sterility factors L. Reed & T. Markow. University of Arizona
			3:45 272 Speciation via hybridization in a bisexual animal?— <i>Rhagoletis</i> hybrids colonize introduced honeysuckle D. Schwarz. Pennsylvania State University
			4:00 273 Hybridization and speciation in water fleas D. J. Taylor. University at Buffalo, SUNY
			4:15 274 Immortal mules: hybridization and speciation in Caribbean corals S. V. Vollmer & S. R. Palumbi. Harvard University
1:15	264	Multiple origins of several hybrid lineages in the <i>Glycine tomentella</i> (Leguminosae) allopolyploid complex: evidence from nuclear and chloroplast sequence data J.T. Rauscher, J.J. Doyle, & A.H.D. Brown. Cornell University	4:30 275 Movement, climate, and evolution in the <i>Allonemobius fasciatus</i> — <i>A. socius</i> mosaic hybrid zone. S.C. Britch & D.J. Howard. New Mexico State University
1:30	265	Hybridization in small populations of red mulberry (<i>Morus rubra L.</i>): molecular and morphological evidence K. S. Burgess & B. C. Husband. University of Guelph	4:45 276 The relevance of cryptic <i>Daphnia</i> species M. A. Duffy, A. J. Tessier, & M. Kosnik. Kellogg Biological Station/Michigan State University
1:45	266	Short and long term consequences of hybridization in <i>Avena barbata</i> * A.D. Johansen & R.G. Latta. Dalhousie University	
2:00	267	The origin of ecological divergence in <i>Helianthus paradoxus</i> (Asteraceae): selection on transgressive characters in a novel hybrid habitat C. Lexer, M. Welch, O. Raymond, & L. H. Rieseberg. Indiana University	
2:15	268	Integrating morphology and phylogeography in the study of hybridization: chipmunks (<i>Tamias</i>) in the Northern Rocky Mountains* J. Good, J. Demboski, D. Nagorsen, & J. Sullivan. University of Idaho	1:15 277 Sex roles in cicada pair formation J. Cooley, The University Of Connecticut
2:30	269	Molecular evidence for gene flow between species of <i>Heliconius</i> V.Bull, M.Beltran, E.Birmingham, C.Jiggins, & J.Mallet. University College London	1:30 278 Evolution of ant polyandry and the single male* A. S. Mikheyev. Florida State University
2:45	270	Possible barriers to gene exchange in hybridizing field crickets (<i>Gryllus</i>) G. Hume & R. Harrison. Cornell University	1:45 279 Evolution of contact chemoreception in longhorned beetles (Cerambycidae: Coleoptera) M.D. Ginzel & L.M. Hanks. University of Illinois at Urbana-Champaign
			2:00 280 Whole brood mortality increases the opportunity for female-biased sex ratios under local mate competition S. Freedberg. Indiana University
			2:15 281 Selection on mating system inferred from a <i>Mimulus</i> hybrid zone J. Dole. University of Tennessee

Sunday June 30 PM, continued

2:30	282 The influence of <i>Mimulus ringens</i> floral display size on selfing rates and patterns of paternity J. Karron, R. Mitchell, K. Holmquist, & J. Bell. University of Wisconsin, Milwaukee	2:00	291 Systematics of North American bufonid toads: nuclear versus mitochondrial inferences S. Masta & E. Routman. San Francisco State University
2:45	288 The evolution of the Tasselseed2 gene in the grass genus <i>Bouteloua</i> M. S. Kinney & E. A. Friar. Rancho Santa Ana Botanic Garden	2:15	292 SE Asian forest frog phylogeny (genus <i>Platymantis</i>) and a comparison of parsimony, likelihood, and Bayesian methods of inference* R. M. Brown. University of Texas at Austin
	<i>Session Moderator: Laura Geyer</i>	2:30	
3:30	284 Where have all the hybrids gone? Cryptic female choice in tropical sea urchins* L.B. Geyer & S.R. Palumbi. Harvard University		293 The phylogenetic history of the <i>Anolis cristatellus</i> group: a morphological and molecular analysis using frequency parsimony and maximum likelihood methods* M. Brandley & K. de Queiroz. San Diego State University
3:45	285 The evolution of androgenesis, the production of offspring carrying only paternal genes M.J. McKone & S.L. Halpern. Carleton College	2:45	294 Limb loss in scincid lizards: a comparison of character optimization methods A.S. Whiting, J.W. Sites, & A.M. Bauer. Brigham Young University
4:00	286 Hybridization and male parental investment in eutherian mammals* C. Welch, R. Pierotti, & D.S. Pennock. University of Washington		<i>Session Moderator: Conrad Matthee</i>
4:15	287 Molecular evolution of the hominoid semenogelin genes M.I. Jensen-Seaman & W.-H. Li. Medical College of Wisconsin	3:30	295 Molecular phylogenetics of the African mole-rat genus <i>Cryptomys</i> : Species designations and patterns of chromosomal evolution* C. Ingram, H. Burda, & R. L. Honeycutt. Texas A&M University
	<i>Vertebrate Phylogenetics & Systematics 2</i> <i>Greg 112</i>	3:45	296 Molecular evolution of the Lagomorpha: total evidence derived from nuclear and mtDNA data. C.A. Matthee, D. Bell, & T.J. Robinson. Stellenbosch University
1:15	288 Molecular evolution and systematics of <i>Mazama</i> and <i>Odocoileus</i> in the Yucatan M. Smith, J. Purdue, & T. Oleksykt. Savannah River Ecology Lab	4:00	297 The silent sites are talking to us—should we be listening? R. W. DeBry. University of Cincinnati
1:30	289 Evolution of aposematism in dendrobatid frogs D. Cannatella, L. Coloma, & J.C. Santos. University of Texas	4:15	298 The position of the Geomyoidea and Castoroidea within Rodentia: evidence from complete mitochondrial genome sequences* L. Frabotta & R. Honeycutt. Texas A&M University
1:45	290 Molecular phylogeny and biogeography of Ranoidea (Amphibia, Anura) F. Bossuyt, R. Brown, D.M. Hillis, M.C. Milinkovitch, & D.C. Cannatella. Free University of Brussels	4:30	299 Phylogeny of mysticete whales based on mitochondrial and nuclear sequence data* A. Rychel, T. Reeder, & A. Berta. San Diego State University

Population Genetics 1

Greg Hall 100

Session Moderator: Stephen Proulx

- 1:15 300 Metapopulation structure favors reduced mutation repair
S. R Proulx, & F. R. Adler. University of Oregon
- 1:30 301 Notes on the simulation of evolution
W. Atmar. AICS Research, Inc. & The Field Museum, Zoology
- 1:45 302 Invasion genetics of a prolific, voracious predator: Comparison of genetic structure with colonization history
R. Colautti, D. Heath, H. MacIsaac. Great Lakes Institute, University of Windsor
- 2:00 303 Population dynamics of an enigmatic host/symbiont interaction in east Africa: *Drosophila simulans* and *Wolbachia* sp.*
M. Dean, K. J. Ballard, A. Glass, & J. W. O. Ballard. University of Iowa
- 2:15 304 The evolution of cold tolerance
P. Zani. University of Oregon
- 2:30 305 Microsatellite and mtDNA based population genetic structure of blind mole rats in Israel
P. Karanth, A. Avivi, & E. Nevo. State University of New York
- 2:45 306 Global pattern of human DNA sequence variation in non-coding regions
N. Yu & W.-H Li. University of Chicago
- Session Moderator: Hopi Hoekstra
- 3:30 307 The functional role of adaptive nucleotide variation in pocket mouse coat color
H.E. Hoekstra & M.W. Nachman. University of Arizona
- 3:45 308 Species or host races? Spatial and temporal genetic structure of brood parasitic Indigobird populations
K. M. Sefc, R. B. Payne, & M. D. Sorenson. Boston University, Dept. of Biology
- 4:00 309 Natural selection on protein polymorphism in rodents: evidence from interlocus contrasts
J. F. Storz. University of Arizona
- 4:15 310 Genetic variation in sexual and hybrid parthenogenetic geckos of the *Heteronotia binoei* complex

J. Strasburg. Washington University

- 4:30 311 Molecular population genetics of human visual pigment genes
B.C. Verrelli & S.A. Tishkoff. University of Maryland

- 4:45 312 Long distance linkage disequilibrium in the Han Chinese and mixed Amerindian populations
K. Mather, M. President, S. Easteal, J. Hollenbach, W. Klitz, G. Huttley, & G. Thomson. University of California, Berkeley

Monday, July 1 AM

SSE Symposium

New Physiological Approaches to the Study of the Cost of Reproduction*Wohlers 141*

Organizers: Anthony Zera and Lawrence Harshman

- 8:05–8:15 313 Introduction
- 8:15–8:45 314 Metabolic basis of the cost of reproduction: radiotracer and endocrine studies of lipid metabolism in a wing-polymorphic cricket
A. Zera. University of Nebraska
- 8:45–9:15 315 Love potions and poisons: *Drosophila* seminal proteins and the cost of mating
M. Wolfner. Cornell University
- 9:15–9:45 316 Cost of egg production in *Drosophila melanogaster*
L. Harshman. University of Nebraska
- 9:45–10:15 317 Sexual dimorphism, sexual selection and the cost of reproduction: what population surveys and correlated responses to selection have revealed
L. Delph. Indiana University
- 10:30–11:00 318 Testosterone manipulations reveal physiological and fitness costs of increased territorial aggression in male lizards under field conditions
C. Marler. University of Wisconsin, Madison
- 11:00–11:30 319 Immunosuppression as a cost of reproduction
V. Apanius. Florida International University
- 11:30–12:00 320 Nutrient bottlenecks during reproduction in laboratory and natural systems
K. Hammond. University of California, Riverside

Monday, July 1 AM, continued

- 9:00-12:00 **Computer Workshop • Burrill 164 D/E**
Visualizing complex phylogenetic patterns with networks
P. Lockhart, S. Cameron, & J. Whitfield.
University of Illinois, Urbana-Champaign

Co-evolution

ASL 150

Session Moderator: May Berenbaum

- 8:30 321 Chemical phenotype matching in webworms and wild parsnips: coevolution or coincidence?
M. Berenbaum & A. Zangerl. University of Illinois at Urbana-Champaign
- 8:45 322 Flowering time and tolerance to defoliation in *Brassica rapa*: The evolution of civil defense as a correlated trait
A.E. Weis, E.L. Simms, & K.A. Stowe.
University of California, Irvine
- 9:00 323 Adaptive dynamics: a theory of phenotypic trait evolution
F. Jacobs. University of Tennessee
- 9:15 324 *Pectinopygus*: heirlooms or souvenirs? Cophylogeny of the Pelecaniformes and their parasitic lice.
M. Kennedy, K.P. Johnson, & R.D.M. Page.
University of Glasgow
- 9:30 325 Cancelled
- 9:45 326 Roosting habits of Neotropical bats affect prevalence, intensity and host specificity of parasitic bat flies
C. W. Dick, B. D. Patterson, J. B. Bender, M. D. Dean & R. L. Wenzel. Texas Tech University

Species Interactions

ASL 150

Session Moderator: Joel Sachs

- 10:30 327 The evolution of cooperation: a perspective
J.L. Sachs. University of Texas, Austin
- 10:45 328 The role of ecological interactions as mechanisms of selection in evolution
M. Devaraj, India
- 11:00 329 Avian predators can maintain polymorphism in aposematic butterflies
G. Langham. Cornell University

- 11:15 330 Morphological consequences of interspecific competition between *Plethodon jordani* and *P. teyahalee* in the Great Smoky and Balsam Mountains
D. C. Adams. Iowa State University
- 11:30 331 Coevolution of deadly toxins and predator resistance: Behavioral modification of toxin exposure by a snake predator
B. L. Williams, E. D. Brodie Jr., & E. D. Brodie III. Utah State University

Molecular Evolution 3

MSEB 100

Session Moderator: Amy Lawton-Rauh

- 8:30 332 Molecular evolution and population genetics of regulatory genes in an adaptive radiation
A. Lawton-Rauh, R. H. Robichaux & M. D. Purugganan. North Carolina State University
- 8:45 333 Analysis of high diversity genes in *Arabidopsis thaliana*
J. Cork, M. Purugganan. North Carolina State University
- 8:45 334 The young and the recombinant: rapid generation of piscine MHC alleles revealed by intron/exon comparisons
S. Cohen. Harvard University
- 9:00 335 Expression of the rRNA gene family in *Tigriopus californicus*: biased transcription in inter-population hybrids
J. Flowers & R. Burton. Scripps Institution of Oceanography, UCSD
- 9:15 336 The evolution of nuclear and mitochondrial subunits of cytochrome c oxidase
R. Haney & D. Rand. Brown University
- 9:45 337 Molecular population genetics of light color polymorphism in the bioluminescent click beetle, *Pyrophorus plagiophthalmus* (Coleoptera: Elateridae)
U. Stolz, S. Velez, & J. Feder. University of Notre Dame
- Session Moderator: Scott Harrison
- 10:30 338 Patterns of nucleotide diversity are shaped by mating system in *Mimulus*
A. L. Sweigart & J. H. Willis. Duke University

10:45	339	Sphinx, a young chimeric RNA gene in <i>Drosophila melanogaster</i> and its unusual variation patterns in populations W. Wang, F. G. Brunet, K. Thornton, E. Nevo, & M. Long. University of Chicago
11:00	340	Premeiotic clusters of mutation and the rate of substitutions: Is $k = u$? R. C. Woodruff & J. N. Thompson, Jr. Bowling Green State University
11:15	341	Differences in methylation patterns between parental populations and backcross hybrids of the intertidal copepod <i>Tigriopus californicus</i> J. S. Harrison & S. Edmonds. University of Southern California
11:30	342	Selection on a novel sperm protein within and among species of common blue mussels C. Riginos. Duke University
11:45	343	Comparative molecular evolution of a <i>Numt</i> pseudogene in voles (Rodentia)* D. A. Triant & J. A. DeWoody. Purdue University

Invertebrate Phylogenetics & Systematics 2

DKH 114

Session Moderator: Courtney Babbitt

8:30	344	Malacostracan phylogeny inferred from 18S and 28S rDNA* C. Babbitt & N. Patel. University of Chicago
8:45	345	Predicted geographic distributions aid taxonomic decisions within sea anemone genus <i>Actinodendron</i> (Anthozoa: Actiniaria)* A. Ardelean. University of Kansas
9:00	346	Cancelled
9:15	347	Polyphyly in a polytomy: a phylogenetic reassessment of <i>Thereva</i> Latreille (Insecta: Diptera: Therevidae)* K. Holston, B. Weigmann, & M. Irwin. University of Illinois at Urbana-Champaign
9:30	348	Phylogeny of mayflies and their position among the other winged insects T. H. Ogden & M. F. Whiting. Brigham Young University
9:45	349	Song, sex and psyllid systematics D. Percy. CSIRO Entomology

Invertebrate Phylogenetics & Systematics 2

DKH 114

Session Moderator: Karen Ober

10:30	350	Phylogenetic relationships of the lebiomorph assemblage and the rapid radiation of the subfamily Harpalinae (Coleoptera: Carabidae) K. Ober & D. Maddison. University of Connecticut
10:45	351	Phylogenetic analyses of the shallow-water Caribbean octocorals using mitochondrial DNA sequences (NADH-dehydrogenase subunits 2-6, and MSH) and morphological characters* J. A. Sanchez, C. S. McFadden, S.C. France, & H. R. Lasker. University at Buffalo (SUNY)
11:00	352	Morphology, mtDNA, and speciation patterns in Puerto Rican <i>Lepidocyrtus</i> (Hexapoda: Collembola) F. Soto. University of Vermont
11:15	353	History of host-plant association in north American <i>Trirhabda</i> leaf beetles (Coleoptera, Chrysomelidae) inferred from molecular data* Z. Swigonova & K. M. Kjer. Rutgers University
11:30	354	Ancestral reconstructions and phylogenetic effects in evolution of development in <i>Crepidula</i> (Gastropoda) R. Collin. STRI
11:45	355	Phylogeny of the Acroceridae (Diptera) using multiple molecular markers S.L. Winterton, B.M. Wiegmann, & E.I. Schlinger. North Carolina State University

Plant Reproductive Biology

Everitt 151

Session Moderator: Veronique Delesalle

8:30	356	Exploring tradeoffs between flower and fruit production in <i>Clarkia unguiculata</i> (Onagraceae) V. Delesalle. Gettysburg College
8:45	357	Constraints on the evolution of dioecy: Comparison of quantitative genetic parameters for sexual traits in three populations of gynodioecious <i>Fragaria virginiana</i> T-L. Ashman. University of Pittsburgh

Monday, July 1 AM, continued

9:00	358 Context-dependent selection for gender and sexual dimorphism in gynodioecious wild strawberry A. Case & T-L. Ashman. University of Pittsburgh	8:30	368 Microsatellite variation in the North American population of the hornet, <i>Vespa crabro</i> S. A. Collins & S. H. Berlocher. University of Illinois at Urbana-Champaign
9:15	359 Breeding strategy of <i>Rhizophora mangle</i> D. J. Devlin, S. L. Grace, & S. E. Travis. University of Louisiana at Lafayette	8:45	369 Little background selection, but some adaptation, on lepidopteran W chromosomes P. Andolfatto, J. M. Scriber & B. Charlesworth. ICAPB, University of Edinburgh
9:30	360 The evolution and maintenance of dioecy in <i>Sagittaria latifolia</i> (Alismataceae) M. E. Dorken & S. C. H. Barrett. University of Toronto	9:00	370 Linkage limits the power of natural selection in <i>Drosophila</i> A. Betancourt, D. Presgraves. University of Rochester
9:45	361 Severe genetic cost of reproductive assurance in <i>Aquilegia canadensis</i> C.R. Herlihy & C.G. Eckert. Queen's University	9:15	371 Selection at linked sites in the partial selfer <i>Caenorhabditis elegans</i> A. D. Cutter & B. A. Payseur. University of Arizona
Session Moderator: Lorne Wolfe		9:30	372 Time transect of genetic change in a recently founded <i>Daphnia</i> population J.A. Fox & N.G. Hairston, Jr. Cornell University
10:30	362 On the road again: reproductive consequences of the invasion process in <i>Silene latifolia</i> L. Wolfe. Georgia Southern University	9:45	373 The effective population size of annuals: seed banks and fluctuating numbers L. Nunney. University of California, Riverside
10:45	363 The evolution of developmental plasticity: A case study of sex expression in <i>Solanum</i> J. S. Miller & P.K. Diggle. University of Colorado	Session Moderator: John Wakeley	
11:00	364 Apomictic and polyploid evolution in the australian arid-zone mulga species complex (<i>Acacia</i> : Fabaceae) J. Miller. University of Iowa	10:30	374 Gene genealogies when the sample size exceeds the effective population size J. Wakeley. Harvard University
11:15	365 The effect of inflorescence size on the functional significance of protandry in <i>Chamerion angustifolium</i> (Onagraceae) M. Routley, & B. Husband. University of Guelph	10:45	375 Genetic conflict and the imprinting of sex-linked genes H. G. Spencer, A. E. Weisstein, & M. W. Feldman. University of Otago
11:30	366 Adaptive plasticity, parental effects, and parental care in plants: a case for <i>Plantago lanceolata</i> . E. Lacey. University of North Carolina-Greensboro	11:00	376 Patterns of genetic variation on the fourth chromosome of <i>Drosophila melanogaster</i> and <i>D. simulans</i> K. Thornton, W. Wang, J.J. Emerson, & M. Long. University of Chicago
11:45	367 Cancelled	11:15	377 Estimating effective population size and migration rates from genetic samples over space and time J. Wang & M. C. Whitlock. Zoological Society of London

11:30	378	Control of gene expression? A population genetic model of the evolution of imprinting A. Weisstein & H. Spencer. University of Otago	11:30	390	Recurrent tetraploid formation, triploid bridge and sympatric coexistence of diploid and tetraploid <i>Chamerion angustifolium</i> (Onagraceae) B.C. Husband & T.L. Burton. University of Guelph
11:45	379	Stress-induced assortative mating and the evolution of stress resistance J. Winterer & A. E. Weis. Franklin and Marshall College	11:45	391	Ecological divergence in experimental microcosms G. Sacher, M. Doebeli, & M. Travisano. University of Houston

Speciation 3 Burrill 124

Session Moderator: Daniel Ortiz-Barrientos

8:30	380	The genetics of reinforcement in <i>Drosophila</i> D. Ortiz-Barrientos & M.A.F. Noor. Louisiana State University			
8:45	381	Genome-wide patterns of expression in <i>Drosophila</i> pure-species and hybrid males M.A.F. Noor, L.A. Bertucci, & J. Reiland. Louisiana State University			
9:00	382	The evolution of conspecific sperm precedence in <i>Drosophila</i> S. M. Dixon, J. A. Coyne, & M. A. F. Noor. Louisiana State University			
9:15	383	Acp sequence polymorphism in <i>Drosophila melanogaster</i> from Evolution Canyon T. Panhuis. University of California, Riverside			
9:30	384	A speciation experiment: Selection for divergent courtship form results in reproductive isolation L. Meffert & S. Hicks. Rice University			
9:45	385	Cladogenesis without sex C. W. Birk Jr., E. Henry, L. Herbertson, & C. Wolf. University of Arizona			
Session Moderator: Eric Baack					
10:30	386	Lower barriers to persistence of novel tetraploids in a spatial model E. Baack. Center for Population Biology, University of California, Davis			
10:45	387	Cancelled			
11:00	388	Adaptive diversification and inter-island dispersal in the Hawaiian genus <i>Dubautia</i> E. A. Friar. Rancho Santa Ana Botanic Garden			
11:15	389	How does one species become two? Differentiation in morphology, molecules, and reproductive compatibility within <i>Silene rotundifolia</i> L. C. Moyle & J. Antonovics. Duke University			

Monday July 1 PM

Conservation Biology 2

DKH 114

Session Moderator: Timothy Collins

1:15	392	Assessing conservation decisions in a demographic context A. Keyser, M. Keyser, & D. Promislow. University of Georgia
1:30	393	Phylogenetics and invasive species: the case of synbranchid eels in the southeastern U.S. T. Collins, J. Trexler, M. Osentoski, L. Nico, & T. Rawlings. Florida International University
1:45	394	Population differentiation and conservation of song sparrows (<i>Melospiza melodia</i>) in the San Francisco Bay region inferred by morphological and microsatellite loci analysis Y. Chan & P. Arcese. Stanford University
2:00	395	Conservation implications of systematics in Southeast Asian Turtles* T. Engstrom, P. Spinks, B. Shaffer, & W. McCord. University of California, Davis
2:15	396	Ancestral population size in elephant seals and right whales inferred from intron sequence divergence at multiple loci M.P. Hare & S.R. Palumbi. University of Maryland
2:30	397	Ecotones, gradients and environmental transitions in evolutionary ecology S. Kark. Stanford University
2:45	398	The evolution of Indian ocean giant tortoises E. P. Palkovacs, J. Gerlach, & A. Caccone. Yale University

Monday July 1 PM, continued

- 3:00 399 Conservation genetics of the greater prairie chicken
J.A. Johnson & P.O. Dunn. University of Wisconsin, Milwaukee
- 3:15 400 Cancelled

Development & Evolution 2

Everitt 151

Session Moderator: Andrea Gargas

- 1:15 401 Metabolic pathway evolution in fungi
A. Gargas. University of Wisconsin, Madison
- 1:30 402 Using phylogeny to study development
E. A. Kellogg, A. Doust, & S. Malcomber. University of Missouri, St. Louis
- 1:45 403 Evolutionary loss of canalized leaf-shoot organization in *Streptocarpus* (Gesneriaceae)
Q.C.B. Cronk, C.J. Harrison, M. Moeller & A. Hudson. University of Edinburgh
- 2:00 404 Single-gene mutations accounting for photoperiod-sensitivity differentiation between wild rice species
T. Sang, C.-B. Li, & A.-L. Zhou. Michigan State University
- 2:15 405 Moving genes between species to test evolutionary developmental hypotheses: The role of LEAFY in the evolution of plant architecture in Brassicaceae
H.-S. Yoon & D. A. Baum. University of Wisconsin
- 2:30 406 Developmental genetic models for the evolutionary origin of the angiosperm flower
D. A. Baum. University of Wisconsin
- 2:45 407 Variation, canalization and asymmetry: Exploring Waddington's legacy
I.M. Dworkin. University of Toronto
- 3:00 408 Functional evolution of a vertebrate transcription factor protein: HoxA-11 in the fin-limb transition
J. J. Roth, Chi-hua Chiu, G. P. Wagner. Yale University
- 3:15 165 Floral symmetry genes are implicated in the evolution of stamen number in Antirrhineae (Veronicaceae)*
L. C. Hileman, E. M. Kramer, & D. A. Baum. Harvard University

Inbreeding

Burrill 124

Session Moderator: Don Waller

- 1:15 410 Does inbreeding purge the load? Experiments with *Brassica rapa*
D. Waller, J. Dole, and A. Bersch. Univ. of Wisconsin, Madison
- 1:30 411 Field tests of inbreeding effects on tolerance to herbivory and host plant quality in *Mimulus guttatus*
C. Ivey & D. E. Carr. University of Virginia & M.D. Eubanks. Auburn University
- 1:45 412 Likelihood ratio tests of the deleterious mutation model
J. Kelly. University of Kansas
- 2:00 413 Inbreeding depression in perennial lupine: Does population size matter?
H. Michaels, X. Shi, & R. Mitchell. Bowling Green State University
- 2:15 414 Mutational meltdown: Does ecology matter?
B. H. Davis & P. A. Abrams. University of Toronto
- 2:30 415 Genetic load in chinook salmon (*Oncorhynchus tshawytscha*): Evidence from genetic analysis of hermaphrodite progeny
B. Young, D. Roy, G. Cho, & D.D. Heath. GLIER, University of Windsor
- 2:45 416 Joint evolution of gynodioecy and recessive mutations in genetically explicit models
S.T. Schultz. University of Miami

Phylogenetic Theory & Methods 1

Wohlers 141

Session Moderator: David Hillis

- 1:15 417 Analysis and visualization of phylogenetic tree-space
D. M. Hillis, D. J. Zwickl, J. Klinger, & A. B. Amenta. University of Texas
- 1:30 418 Using the quantitative genetics threshold model for discrete character phylogenies
J. Felsenstein. University of Washington
- 1:45 419 Should we assume a common set of branch lengths for different sets of characters?
M. Holder, P. Lewis, & D. Swofford. University of Connecticut

2:00	420	Bayesian approaches to data combinability and phylogenetic information content P. Lewis, M. Holder, S. Shoup, & L. Lewis. University of Connecticut	2:30	431 Optimal spatial statistics for analyzing structured populations B.K. Epperson. Michigan State University
2:15	421	Bayesian inference of phylogenetic trees under no-common-mechanism models D. Swofford, M. Holder, & P. Lewis. Florida State University	2:45	432 Activity variation within and between alcohol dehydrogenase (ADH) paralogues in <i>Drosophila mojavensis</i> and <i>D. arizonae</i> L. M. Matzkin & W. F. Eanes. State University of New York at Stony Brook
2:30	422	A new efficient heuristic for tree inference under ML M. C. Milinkovitch. University of Brussels	3:00	433 Balancing selection and divergent allele advantage C. Muirhead. Harvard University
2:45	423	Using distance methods to build supertrees from GenBank gene trees R. Ree & M. J. Sanderson. University of California, Davis	3:15	434 McDonald-Kreitman tests in regions of low recombination in <i>Drosophila</i> L.A. Sheldahl, D.M. Weinreich, & D.M. Rand. Brown University
3:00	424	Identifying evolutionary mode in morphologic and molecular data: Testing the tests J. Marcot. University of Chicago		
3:15	425	The applicability of mixed likelihood models in phylogenetic inference* D. J. Zwickl. University of Texas, Austin		

Population Genetics 3

Lincoln 192

Session Moderator: Ashley Carter

1:15	426	Two pathways of evolution via gene duplication; a theoretical and simulation comparison A. J. R. Carter & G. P. Wagner. Yale University
1:30	427	Estimation of recombination rate taking into account population subdivision P. Beerli, M. K. Kuhner, J. Yamato, & J. Felsenstein. University of Washington
1:45	428	Population genetics of a disease resistance gene in <i>Lycopersicon pimpinellifolium</i> A.L. Caicedo & B.A. Schaal. Washington University
2:00	429	Comparative population genetics of humans and the great apes T.K. Altheide & M.F. Hammer. University of Arizona
2:15	430	Gene flow outside the vacuum: An analytical model for quantifying the effects of environmental modulators of contemporary pollen movement R. Dyer & V. Sork. University of Missouri, St. Louis

Sexual Selection I

ASL 150

Session Moderator: Daphne Fairbairn

1:15	435	Going along for the ride: the adaptive significance of prolonged copulation in a water strider D. Fairbairn. University of California, Riverside
1:30	436	Juvenile hormone affects eye-span in stalk-eyed flies C. Fry. University of Maryland, College Park
1:45	437	Sexual selection drives convergent modification of wing morphology for sonation in the Pipridae (Aves)* K. S. Bostwick. University of Kansas/ Cornell University
2:00	438	Multiple signals for multiple receivers: Experience-related differences in female choice of male traits S. Coleman. University of Maryland
2:15	439	Differentiation in sexually selected traits between the guppy and Endler's livebearer from natural populations H.J. Alexander & F. Breden. Simon Fraser University
2:30	440	Evolution of sexual dimorphism in spottail darters R. Strange. Southeast Missouri State University

Monday July 1 PM, continued

2:45	441	Evolution of retinal structure and color communication in percid fishes K. Lawrence, K. McFarland, & R. Strange. Southeast Missouri State University	9:45	449 Variation in flowering phenology and assortative mating in plants: new methods applied to <i>Brassic rapa</i> T. Kossler & A.E. Weis. University of California, Irvine
3:00	442	Cancelled	Session Moderator: Olav Rüppell	
3:15	443	The cost of mating in a sperm heteromorphic fly R. Snook. University of Sheffield	10:30	450 Quantitative genetics of the rate of adult development in honey bees O. Rüppell, T. Pankiw, M.K. Fondrk, & R.E. Page Jr. University of California, Davis
2:55-3:30		SSE Dobzhansky Prize Winner • Foellinger Speciation in the wild: Natural selection and the evolution of reproductive isolation in sticklebacks Howard Rundle, Simon Fraser University, British Columbia	10:45	451 Evolution of regulatory genetic pathways: Branched pathways and the G matrix N. Johnson & A. Porter. University of Massachusetts, Amherst
4:00-5:00		SSB: Presidential Address • Foellinger A unified species concept and its consequences for systematic and evolutionary biology Kevin de Queiroz, Smithsonian Institution	11:00	452 The relative importance of selection and phylogeny in shaping G matrix differences between species M. Begin & D.A. Roff. McGill University

Tuesday July 2 AM

Quantitative Genetics I DKH 114

Session Moderator: Derek Roff

8:30	444	The evolution of genetic architecture: A new method of analysis D. Roff. University of California, Riverside
8:45	445	Quantitative trait loci underlying architectural diversity and domestication in millet grasses A. Doust & E. Kellogg. University of Missouri, St Louis
9:00	446	An exact formulation of phenotypic selection and the nature of heritability J.S. Heywood. Southwest Missouri State University
9:15	447	From M through G to D D. Houle & J. Mezey. Florida State University
9:30	448	Comparing G matrices: what common principal components can tell us J. Mezey. Florida State University

Evolution of Behavior

Everitt 151

Session Moderator: Nicole Leahy

8:30	456	Effects of player representation on the outcome of a game theoretic non-reciprocal cooperative simulation* N. Leahy. Iowa State University
8:45	457	Body size and sex allocation in simultaneously hermaphroditic animals L. Angeloni, J.W. Bradbury, & E.L. Charnov. University of California, San Diego
9:00	458	Genetic architecture of behavioral phenotype-environment associations in the lake whitefish (<i>Coregonus</i> sp.) S. Rogers & L. Bernatchez. Laval University

9:15	459	Parasite altruism and the mechanisms of virulence S. P. Brown, M. E. Hochberg & B. T. Grenfell. University of Montpellier II	9:15	469	Does the genetic code explain differences in substitution rate between codon positions? Evidence from large-scale database analyses* T. Massingham. Museum of Zoology, Cambridge University (UK)
9:30	460	Worker relatedness and colony performance in a leptothoracine ant F. Trampus. University of Houston	9:30	470	Protein evolution with dependence among sites: A model J. Thorne, D. Robinson, D. Jones, H. Kishino, & N. Goldman. North Carolina State University
<i>Session Moderator: Alex Olvido</i>					
10:30	461	Signal components and signal preferences in a cricket A.E. Olvido & W.E. Wagner, Jr. University of Nebraska-Lincoln	9:45	471	Protein evolution with dependence among sites: Some results D. Robinson, D. Jones, H. Kishino, N. Goldman, & J. Thorne. North Carolina State University
10:45	462	Thermal dependent variation in mating behavior in <i>Drosophila mojavensis</i> A. Fasolo & R. Krebs. Cleveland State University			
11:00	463	The subtle costs of sexual selection J. Alipaz, S. Fang, & C-I Wu. The University of Chicago			
11:15	464	Altruism, tolerance and tribal formation M.E. Hochberg, S. Brown, & B. Sinervo. University of Montpellier	10:45	473	A Bayesian approach to maximum likelihood analyses of large datasets: An example using darters (Percidae: Etheostomatinae) T. J. Near. University of California, Davis
11:30	465	Genomic imprinting in social insects: some risky predictions of sociobiological theory D. C. Queller. Rice University	11:00	474	Birds in a bush: power and polytomies in phylogenetic inference S. Poe & A. Chubb. University of California, Berkeley
<hr/> <i>Phylogenetic Theory & Methods 2</i> <i>MSEB 100</i>					
<i>Session Moderator: Michael Alfaro</i>					
8:30	466	Bayes or bootstrap? Comparative behavior and performance of bootstrapping and Bayesian MCMC sampling in assessing phylogenetic confidence M. E. Alfaro, S. Zoller, & F. Lutzoni. University of California, Davis	11:15	475	Performance of phylogenetic methods and mtDNA genes in vertebrates and invertebrates N.V. Schizas, J. Steinbachs, & J.W.O. Ballard. University of Chicago
8:45	467	A molecular timescale for vertebrate gene family evolution* J. A. Cotton & R. D. M. Page. University of Glasgow	11:30	476	Independence of alignment and tree search M. Simmons. Colorado State University
9:00	468	Weighting for an answer: Assessment of differential weighting in mitochondrial genome data* J.S. LaPolla, Z. Swigonova, & K.M. Kjer. Rutgers University	11:45	477	Phylogenetics meets functional genomics: comparing maximum likelihood models of gene expression evolution* T.H. Oakley & W.-H. Li. University of Chicago
<hr/> <i>Population Genetics 4</i> <i>Transport 103</i>					
<i>Session Moderator: Thomas Meagher</i>					
8:30	478	Bootstrapping in paternity analysis: in search of a null hypothesis T. Meagher. University of St Andrews			

Tuesday July 2 AM, continued

- 8:45 479 Is modularity necessary for evolvability?
T.F. Hansen. Florida State University
- 9:00 480 Polymorphism in gametic compatibility maintained by sperm competition and polyspermy
R. Haygood. University of California, Davis
- 9:15 481 Effects of epistasis in polygenic traits in mutation-selection balance
J. Hermisson, T. Hansen, & G. P. Wagner. Yale University
- 9:30 482 Genetic architecture underlying geographic variation in morphology, physiology and reproduction
T. McKittrick, W.E. Bradshaw & C.M. Holzapfel. University of Oregon
- 9:45 483 Population structure of a gorgonian coral in the Bahamas
C.Gutierrez-Rodriguez & H.R. Lasker. SUNY at Buffalo

Session Moderator: Michael McCartney

- 10:30 484 Genetic signatures of incipient speciation in a coral reef fish species flock
M.A. McCartney, W.O. McMillan, & E. Bermingham. University of North Carolina, Wilmington
- 10:45 485 Intraspecific variation in *Caenorhabditis elegans*
A. Sivasundar & J. Hey. Rutgers University
- 11:00 486 Inferring demographic history in a continuous population
J. F. Wilkins & J. Wakeley. Harvard University
- 11:15 487 Balancing selection and linkage disequilibrium of RPS5 presence/absence polymorphism in *Arabidopsis thaliana*
H. Araki, D. Tian, E. Stahl, J. Bergelson, & M. Kreitman. University of Chicago
- 11:30 488 No evidence of a recent severe population bottleneck in *Plasmodium falciparum*
A. L. Hughes. University of South Carolina
- 11:45 489 Loci with major impacts on physiology and components of fitness
J. Mitton. University of Colorado

Sexual Selection 2

ASL 150

Session Moderator: Jenny Drnevich

- 8:30 490 Comparative global gene expression and male fertility in *Drosophila melanogaster*
J. Drnevich, C. Johnson, & K. Hughes. University of Illinois at Urbana-Champaign
- 8:45 491 Sexual selection favors large size in dwarf males in an orb-weaving spider
M. Foellmer & D. Fairbairn. Concordia University
- 9:00 492 A test of sexual antagonism in house flies
S. Hicks & L. Meffert. Rice University
- 9:15 493 Female mate choice in relation to heterozygosity in *Tricholium castaneum*
A. Pai & G. Yan. State University of New York at Buffalo
- 9:30 494 Differential variation in body and genitalia size in the species of *Ozodiceromyia nanella* (Cole)(Diptera: Therevidae)
M. A. Metz. University of Illinois at Urbana-Champaign

Session Moderator: Felix Breden

- 10:30 495 Genetics of female preference in the guppy and Endler's livebearer
F. Breden. Simon Fraser University
- 10:45 496 Effects of sperm competition on the evolution of seminal proteins in the great apes
S. Kingan, M. Tatar, & D. Rand. Brown University
- 11:00 497 Parental effects on offspring performance in gray tree frogs: genetic quality or compatibility?
A. M. Welch. University of North Carolina-Chapel Hill
- 11:15 498 Diversification of courtship displays in the bird of paradise genus *Parotia*: A macroevolutionary perspective on sexual selection and speciation
E. Scholes III. University of Kansas
- 11:30 499 Cancelled
- 11:45 500 The Napoleon complex: why smaller males pick fights
M.R. Morris, W. Just, & X. Sun. Ohio University

Hybridization 2

Burrill 124

Session Moderator: Ben Fitzpatrick

- 8:30 501 Environment-dependent and locus-dependent barriers to gene exchange in a tiger salamander hybrid zone
B. M. Fitzpatrick & H. B. Shaffer. University of California, Davis
- 8:45 502 Extensive introgression in arctic members of the *Daphnia pulex* complex as revealed by microsatellite markers
F. Dufrense, L.J. Weider, A. Hobaek, J.K. Colbourne. Université du Québec à Rimouski
- 9:00 503 Identifying species hybrids using multilocus genetic data
E. C. Anderson & E. A. Thompson. University of California, Berkeley
- 9:15 504 Hybrid lethality in sympatric *Mimulus*: the importance of Dobzhansky-Muller and nuclear-cytoplasmic interactions.
N. Martin & J. Willis. Duke University
- 9:30 505 Pollen flow and the origin of hybrid phenotypes in a *Crepis* (Asteraceae) hybrid zone
J. Whitton, K. Dlugosch, & K. Ryall. Dept. Botany, Univ. British Columbia
- 9:45 506 Genetics of speciation in the *Anopheles gambiae* complex: A QTL approach to male hybrid sterility
M. Slotman, A. della Torre, & J. R. Powell. Yale University
-

Invertebrate Life History Evolution

Burrill 124

Session Moderator: Avis James

- 10:30 507 Cancelled
- 10:45 508 Ontogeny and allometric scaling of life history in *Daphnia*
J. Dudycha, C. Baer, & M. Lynch. Indiana University
- 11:00 509 Life history correlations: when shouldn't traits trade off?
K. M. Fedorka & T. A. Mousseau. University of South Carolina
- 11:15 510 The role of resource availability in allocation patterns between growth and nutrient storage in the grasshopper, *Schistocerca americana*
D. A. Hahn. University of Arizona

11:30

- 511 Mitochondrial fitness: A comparison of divergent intraspecific haplotypes
A.C. James & J.W.O. Ballard. University of Iowa

11:45

- 512 Life history trait evolution in satyrine butterflies (Nymphalidae: Satyrinae)
D. L. Murray. Oregon State University

Tuesday July 2 PM

Ecological Genetics of Plants

ASL 150

Session Moderator: Christina Caruso

- 1:15 513 Can physiological traits influence floral evolution? A case study with *Lobelia*
C. M. Caruso, H. Maherli, A. Mikulyuk, K. Carlson, & R. B. Jackson. Duke University
- 1:30 514 Molecular evolution of TGG1 in *Arabidopsis thaliana*: Positive selection for increased activity of a plant defensive enzyme
B. Stranger & T. Mitchell-Olds. Max Planck Institute of Chemical Ecology
- 1:45 515 Selection for overall size: environmental covariance or target of selection?
C. Vanier & D. Thompson. University of Arizona
- 2:00 516 Genetics of resistance to feeding by a diverse community of herbivores of horsenettle (*Solanum carolinense*)
M. Wise. Duke University
- 2:15 517 Alternative fates of tandemly duplicated genes: herbivore-induced proteinase inhibitors in *Arabidopsis*
M.J. Clauss & T. Mitchell-Olds. Max Planck Institute for Chemical Ecology
- 2:30 518 Population genetics of divergence and secondary contact in ponderosa pine
R.G. Latta, M.E.R. Boudreau, & S. Zeleneitz. Dalhousie University Biology Department
- 2:45 519 Evolution in closely adjacent *Arabidopsis lyrata* populations
R. Mauricio, R. S. Baucom, & J. L. Hamrick. Department of Genetics/University of Georgia
- 3:00 520 Negative correlation between induction response and constitutive resistance in black mustard
M. B. Traw & P. P. Feeny. University of Chicago

Tuesday July 2 PM, continued

3:15	521	The phylogenetics of mustards (Brassicaceae): placing <i>Arabidopsis</i> in an evolutionary context M. Beilstein & E. A. Kellogg. University of Missouri, St. Louis
<hr/>		
Phylogeography/Geographic Variation 2 Burrill 124		
Session Moderator: Mariana Mateos		
1:15	522	Linking habitat specialization and speciation in "stone plants" A.G. Ellis, A.E. Weis, & B. Gaut. University of California, Irvine
1:30	523	Island and taxon effects in Lesser Antillean avian malaria revisited S. M. Fallon, E. Bermingham, & R. E. Ricklefs. University of Missouri, St. Louis
1:45	524	Population systematics of the Southeast Asian Temple Viper (<i>Tropidolaemus wagleri</i>) based on mitochondrial DNA sequence analysis and morphological evidence* U. Kuch & N. Vidal. Johann Wolfgang Goethe University
2:00	525	Delimiting species boundaries in the cosmopolitan freshwater snail, <i>Physa</i> (<i>Physella</i>) <i>acuta</i> group* A. Wethington, R. Dillon, R. Guralnick, & C. Lydeard. University of Alabama
2:15	526	Evolution and biogeography of <i>Morchella</i> , the true morels K. O'Donnell. USDA-ARS-NCAUR
2:30	527	Vicariance and dispersal across the trans-mexican volcanic belt M. Mateos & R.C. Vrijenhoek. Monterey Bay Aquarium Research Institute
2:45	528	Phylogeography of vent invertebrates L. A. Hurtado & R. C. Vrijenhoek. Monterey Bay Aquarium Research Institute
3:00	63	Invasion of the killer turtles: Pleistocene range expansions, selective sweeps, and snapping turtles. B. Shaffer, D. Starkey & M. Fujita. University of California, Davis

Genomics 2

Everitt 151

Session Moderator: Scott Edwards

1:15	529	Using genomics to look at the concerted evolution of the rDNA A. Ganley. Duke University
1:30	530	The early evolutionary history of gene duplicates in the <i>C. elegans</i> genome* V. Katju & M. Lynch. Indiana University
1:45	531	A genomic approach to phylogenetic reconstruction in Drosophilidae P. O'Grady, J. Bonacum, & R. DeSalle. American Museum of Natural History
2:00	532	Capacity for response in a reduced genome: Transcriptome analysis of <i>Buchnera aphidicola</i> , the bacterial endosymbiont of aphids J. Wilcox, H. Dunbar, N. A. Moran. University of Arizona
2:15	533	Phylogenetic relationships and divergence times of MHC class I loci in primates H. Piontkivska & M. Nei. Pennsylvania State University
2:30	534	Expression profiles of single cell types in plants and applications in evolutionary development K. Birnbaum, J. Jung, D. Galbraith, & P. Benfey. New York University
2:45	535	A genomic schism in birds revealed by large-scale bioinformatics analysis of DNA strings S. V. Edwards, B. Fertil, A. Giron, & P. J. Deschavanne. University of Washington
3:00	536	Rapid evolution of phenotypic diversity in <i>Bacillus subtilis</i> cultures H. Maughan, C.W. Birk Jr., & W.L. Nicholson. University of Arizona
3:15	537	Selection against spurious binding sites shapes genomes M. Hahn, J.E. Stajich, & G. A. Wray. Duke University

Phylogenetic Theory & Methods 3**MSEB 100**

Session Moderator: Richard Zander

- 1:15 538 Reliability and null hypotheses with morphological and molecular data
R. Zander. Buffalo Museum of Science
- 1:30 539 Differential selection versus differential success: investigations into the cause of ecological correlates of dioecy
J. C. Vamosi & S. M. Vamosi. University of Toronto
- 1:45 540 Uninode coding vs. gene-tree parsimony for phylogenetic reconstruction using duplicate genes
M. Simmons. Colorado State University
- 2:00 541 From basepairs to bird songs: Phylogenetic data in the age of genomics
M. Simmons, J. V. Freudenstein, K.M. Pickett, & J.W. Wenzel. Colorado State University
- 2:15 542 Phylogeny of Polyneoptera: Direct optimization v. standard alignment techniques*
M. Terry. Brigham Young University
- 2:30 543 Empirical substitution models for protein and rRNA
T. Lui, S. Veerassamy, & E.R.M. Tillier. University Health Network
- 2:45 544 Bayesian phylogenetics using an RNA substitution model: application to vertebrate evolution
C. Hudelot, H. Jow, M. Rattray, & P. Higgs. University of Manchester
- 3:00 545 Phylogenetic information content of large sequence databases: implications for vertebrate phylogeny
A. Driskell, R. Ree, & M. Sanderson. University of California, Davis
- 3:15 546 Relationship between the bootstrap and posterior probability in phylogenetic analysis
M. P. Cummings & D. S. Myers. Marine Biological Laboratory, Woods Hole

Phylogenetics & Systematics**DKH 114**

Session Moderator: Roberta Mason-Gamer

- 1:15 547 Bayesian analysis of AFLPs in *Coreopsis grandiflora*, a species with a striking pattern of cpDNA introgression
R. J. Mason-Gamer & M. M. Burns. University of Illinois, Chicago
- 1:30 548 If you want something done right you have to do it yourself: Invasive Argentine ants do not replace native ants as seed dispersers
S. E. Carney, M. B. Byerley, & D. A. Holway. Colorado State University
- 1:45 549 Phylogeny and evolution of neotropical lianas (bignonieae, bignoniaceae)*
L. G. Lohmann. University of Missouri, St. Louis
- 2:00 550 Reconstructing ancestral transitions between reproductive modes in *Porpidia* (lichen-forming Ascomycota)*
J. Buschbom. University of Chicago
- 2:15 551 A phylogeny of Foraminifera and its evolutionary implications
S. L. Richardson. Smithsonian Marine Station at Ft. Pierce
- 2:30 552 Molecular phylogenies of major mangroves
S. Shi. School of Life Sciences, Zhongshan University
- 2:45 553 Excavata: composition and phylogeny of a major new grouping within eukaryotes
A. Simpson. Dalhousie University
- 3:00 554 Systematics of the *Cratogeomys gymnurus* species complex based on morphological data*
J.E. Light & M.S. Hafner. Louisiana State University
- 3:15 555 Resolving ancient divergences in molecular phylogenetic analyses: sources of error and bias in a 9-locus data set from seed plants
S. Mathews & J. G. Burleigh. University of Missouri-Columbia
- 4:00-5:00 SSE Presidential Address • Foellinger
Making sense of genomes
Nancy Moran, University of Arizona

Poster Presentation

Odd numbered Posters will be presented on Saturday, June 29 from 7:00 PM–9:00 PM

Even numbered Posters will be presented on Monday, July 1 from 7:00 PM–9:00 PM

Union – Illini Rooms A-B

Education

- P1 Evolution in Canadian curricula
B. Alters, S. Alters, & A. Luk. McGill University
- P2 Relationship between students' understanding of the nature of science and evolutionary processes
J. Kurdziel. University of Arizona
- P3 The idea of progress in contemporary evolutionary biology
B. Larson. University of California, Santa Barbara
- P4 Student interface to the Biology Workbench: An educational orientated interface for bioinformatics and evolution
B. Southey, E. Jakobsson, & N. Exner. University of Illinois at Urbana-Champaign

Phylogenetic Theory & Methods

- P5 Profile parsimony, cladistic parsimony, and maximum likelihood: The performance of three goodness-of-fit criteria in a corroboration framework
D. P. Faith, J. W. H. Trueman, & M. Gibbs. Australian Museum
- P6 Fast phylogenetic methods for gene order data: An empirical study
L. Raubeson, L.-S. Wang, R. Jansen, B. Moret, & T. Warnow. Central Washington University
- P7 Using properties of mitochondrial genome data to predict optimal weighting strategies *
Z. Swigonova, J. S. LaPolla, & K. M. Kjer. Rutgers University
- P8 Generalizing quartet methods to various numbers of taxa using minimum evolution
S. Willson. Iowa State University
- P9 Major events in the history of the Asteroidea (Echinodermata): A paleontological perspective
D. Blake. University of Illinois, Urbana-Champaign

- P10 A simple, fast, yet reliable phylogenetic reconstruction method using unaligned molecular sequences
X. Xuchua. University of Hong Kong

Phylogenetics & Systematics

- P11 Environmental GIS modeling of distribution patterns in *Actinodendron plumosum*, a sea anemone with a large geographic range *
A. Ardelean. University of Kansas
- P12 A comparison of two molecular markers, AFLPs and mitochondrial DNA sequences, in two morphologically distinct species of Malagasy birds
M. M. Burns, S. J. Hackett, J. M. Bates, R. J. Mason-Gamer, & S. M. Goodman. University of Illinois, Chicago
- P13 Evolutionary relationships among terrestrial, freshwater and marine ascomycetes
J. Campbell & C. Shearer. University of Illinois, Urbana-Champaign
- P14 Nuclear and mtDNA perspectives on the arvicoline radiation
C. Conroy, J. A. Cook, & A. M. Runck. Museum of Vertebrate Zoology, University of California, Berkeley
- P15 Systematics of the two feeding morphs of *Schizocerella pilicornis*, Holmgren (Hymenoptera: Argidae) inferred from sequences of the cytochrome oxidase I gene
C. Hartsough, E. Connor, & G. Spicer. San Francisco State University
- P16 A comparison of pupal morphology in the Asiloidea
M. Hauser. University of Illinois, Urbana-Champaign
- P17 Evolution & phylogeography of spring snails (Gastropoda: Hydrobiidae) from the Great Artesian Basin, Australia *
K. Perez, C. Lydeard, D. Colgan, & W. F. Ponder. University of Alabama
- P18 Phylogenetic relationships among sigmodontine rodents based on mitochondrial cytochrome b DNA sequence data *
Q. Shurtliff, D. Rogers, & D. McClellan. Brigham Young University
- P19 A case study in the evolution of a novel suite of traits: egg-powdering in sharpshooters (Hemiptera: Cicadellidae)
D. M. Takiya, R. A. Rakitov, & C. H. Dietrich. Illinois Natural History Survey

- P20 *Siderion*: A potential new genus of braconids in the subfamily Microgastrinae
A. A. Valerio & J.B. Whitfield. University of Illinois at Urbana-Champaign
- P21 Re-examining the role of chromosomal rearrangements in the California tarweed genus *Calycadenia* (Asteraceae)
J. Whitton & T. Olson. Dept. Botany, Univ. British Columbia
- P22 Cancelled
- P23 Origin and biogeography of Pacific *Melicope*
E. Zimmer, G. Allan, A. Medina-Marino, & W.L. Wagner. Smithsonian Institution
- P24 Grafting trees and networks: phylogenetic and phylogeographic history in a clade of Patagonian lizards
L. Avila, M. Morando, & J. Sites, Jr. CONICET–Brigham Young University
- P25 Phylogenetic analysis and polyploidy in the plant genus *Amaranthus*
A. Bennett. Salisbury University
- P26 Phylogenetics of New Zealand alpine cicadas
T. R. Buckley. Landcare Research
- P27 Systematics of the genus *Diolcogaster* Ashmead (Microgastrinae: Braconidae) from the New World *
W. Y. Choi & J. B. Whitfield. Department of Entomology, University of Illinois at Urbana-Champaign
- P28 Molecular phylogenetics of a ground cricket
M. D. Clay & J. L. Marshall. The University of Texas at Arlington
- P29 Phylogenetic research on *Sisyrinchium*
E. Denney, E. Gallagher, J. Wachtel, & Dr. K. Hunter. Salisbury University
- P30 Molecular phylogenetics of North American cave crayfishes
J. W. Fetzner Jr., J. Buhay, D. I. Withers, & K. A. Crandall. Carnegie Museum of Natural History
- P31 Phylogenetic relationships in a species-rich family of sea stars (Asteriidae)
D. Foltz, S. Culliton, B. Kelley, & M. Bolton. Louisiana State University
- P32 Phylogenetic analysis of *Echinaster* (*Othilia*) from the Western Atlantic. Part I: Morphology
F. M. Fontanella & T. S. Hopkins. University of Alabama
- P33 The molecular phylogeny of monk seals
C. Fyler, T. Reeder, A. Berta, G. Antonelis, & A. Aguilar. San Diego State University
- P34 Phylogeny of the genus *Lomatium* (Apiaceae) based on ITS and ETS sequence data and parsimony, maximum likelihood and Bayesian analyses
M. Gitzendanner, G. Jacobson, D. Soltis, & P. Soltis. University of Florida
- P35 The evolution of North American *Elymus* (Poaceae) allotetraploids: evidence from phosphoenolpyruvate carboxylase (PEPC) gene sequences and AFLP data
D. M. Helfgott & R. J. Mason-Gamer. University of Illinois, Chicago
- P36 Phylogeny of the galerucines and flea beetles
K.M. Kjer, C.N. Duckett, J.G. Gillespie, D. Tallamy, & A. Konstantinov. Rutgers-Cook College
- P37 Libelluloid dragonfly evolution: Determining morphological polarities, convergence and coapomorphy in the light of molecular evidence
K.M. Kjer & F.L. Carle. Rutgers-Cook College
- P38 Higher level phylogeny of Odonata: Molecules and morphology
F.L. Carle, K.M. Kjer, & M.L. May. Rutgers-Cook College
- P39 Differences in mtDNA descending through male and female lineages in the Unionidae
R. Krebs. Dept. of BGES, Cleveland State University
- P40 Retrieving shallow and deep history in the Andean and Patagonian biota: *Liolaemus elongatus-kriegi* complex (Squamata: Liolaemidae) as a model system
M. Morando, L.J. Avila, & J.W. Sites Jr. Brigham Young University–CONICET
- P41 Recently completed mt DNA genomes resolve more ordinal-level relationships within Plethornithae birds *
T.A. Paton & A.J. Baker. Royal Ontario Museum/University of Toronto
- P42 Investigation of the phylogenetic relationship among mammals using complementary milk proteins.
S. Rodriguez-Zas & B. Southey. University of Illinois at Urbana-Champaign
- P43 A molecular phylogeny of the genus *Cerastium* (Caryophyllaceae)
A. C. Scheen, C. Brochmann, A. Brysting, R. Elven, P. S. Soltis, & D. E. Soltis. University of Oslo/University of Florida
- P44 Mitochondrial DNA evolution in *Rhagoletis* (Diptera:Tephritidae): An update
J. Smith. Michigan State University
- P45 PANDIT: A database of protein and nucleotide domains with inferred trees
S. Whelan, PIW de Bakke, & N. Goldman. Dept of Zoology, University of Cambridge, UK

Phylogeography / Geographic Variation

- P46 Molecular phylogeography of western chipmunks
J. Brahic & G. Spicer. San Francisco State University
- P47 Extreme population subdivision in flightless kiwi of New Zealand: avian equivalents of small mammals
M.L. Burbidge, R.M. Colbourne, H.A. Robertson, & A.J. Baker. University of Toronto & Royal Ontario Museum
- P48 Phylogeographic and coalescent approaches to dispersal and vicariance in Lesser Antillean Bats
B. C. Carstens, P. Joyce, S. C. Pedersen, & J. M. Sullivan. University of Idaho
- P49 Comparative phylogeography of two species of tropical passerines; analysis of genetic and morphological divergence across the andes
C. Dingle & T.B. Smith. San Francisco State University
- P50 Evolutionary history and habitat transitions of an invasive lineage
B. Eads & C. Eunmi Lee. Dept. of Zoology, University of Wisconsin
- P51 Historical and ecological factors in diversification in Amazonian frogs
K. R. Elmer, D. Koscinski, C. Gascon, J. A. Dávila, J. P. Bogart, P. T. Boag, & S. C. Lougheed. Queen's University
- P52 Evolutionary genetics of zebra and quagga mussel invasions *
G. E. May, G. W. Gelembiuk, M. Gerner, & C. Eunmi Lee. University of Wisconsin, Madison
- P53 Zebra mussels: evolutionary inferences in a colonizing species
G. W. Gelembiuk, G. E. May, M. Y. Gerner, & C. Eunmi Lee. University of Wisconsin, Madison
- P54 The hierarchy of an adaptive radiation: Specialization in an intra-island radiation of Caribbean anoles
R. Glor, J. J. Kolbe, R. Powell, A. Larson, & J.B. Losos. Washington University
- P55 Testing the central-peripheral model: Mixing undergraduates, collared lizards, and microsatellites
D. Hutchison. Whitman College
- P56 Comparative rodent phylogeography of the Albertine Rift, East Africa and nested cladistic analysis of *Hylomyscus demiae*: implications for conservation
S. S. Loew, M. H. Huhndorf, & J. C. K. Peterhans. Illinois State University
- P57 American Pronghorn: gleaning historical phylogeographic information from populations with extensive translocation histories
C. L. Malone, J. C. deVos, Jr., J. R. Heffelfinger, T. E. Lee, J. W. Bickham, & O. E. Rhodes, Jr. Purdue University
- P58 Phylogeography of the red-spotted admiral (*Limenitis arthemis*) butterfly complex: Implications for the evolution of mimicry
S. Mullen. Cornell University
- P59 Phylogenetics of asexuality in the microcrustacean *Daphnia pulex*
S. Paland, J. Colbourne, & M. Lynch. Indiana University
- P60 Comparative phylogeography of the fruit bats *Cynopterus brachyotis* and *Haplonycteris fischeri* in the Philippines
T. E. Roberts. University of Chicago
- P61 Divergence of three populations of *Lysiphebus testaceipes* (Hymenoptera: Aphidiidae) differing in cold temperature tolerance
K. A. Shufran, D. B. Jones, & N. C. Elliott. USDA-ARS

Conservation Biology

- P62 Neutral genetic diversity and population size in a commercially valuable plant, American ginseng
M. R. Anderson & S. S. Loew. Illinois State University
- P63 Mutation rates and fitness effects of heavy metal mixtures in white-footed mice (*Peromyscus leucopus*)
D. M. Guan, S. S. Loew. Illinois State University
- P64 Population genetics of *Arapaima gigas*, one of the biggest freshwater fishes the Amazon basin: implications for its conservation
T. Hrbek, I. P. Farias, M. Crossa, I. Sampaio, & A. Meyer. University of Konstanz
- P65 The impact of habitat fragmentation on the competitive ability of a native prairie plant species, *Chamaecrista fasciculata*
C. Mannouris & D. L. Byers. Illinois State University
- P66 Molecular assessment of the host association of a biological control agent *Rhinocyllus conicus*
A. Paradis, S. Louda, & G. Orti. University of Nebraska
- P67 Genetic analysis of the endangered Hawaiian goose, nene
R. Trimble, A. Veillet, D. Franke, B. Flesher, C. Muir, D. Hu, & D. Price. University of Hawaii at Hilo
- P68 Microsatellite analysis of population structure and genetic variation in Humboldt penguins
J. Schlosser & J. Dubach. University of Illinois, Chicago

- P69 A spatial dynamic model of a snake; *Elaphe o. obsoleta*
S. Stoddard, P. Weatherhead, & B. Hannon. University of Illinois at Urbana-Champaign
- P70 Inbreeding effects and the selection response of small populations
W. Swindell & J.L. Bouzat. Bowling Green State University
- P71 An experimental test of captive breeding strategies: assays of fitness, inbreeding and genetic variability in *Musca domestica*
E. Wheeler & L. Meffert. Rice University

Ecological Genetics

- P72 The effect of mtDNA clade boundaries on nuclear gene flow in the western fence lizard, *Sceloporus occidentalis*
J. Archie & T. Vail. California State University
- P73 Heritability and genetic correlations of ecological traits in *Avena barbata*
J.L. MacKenzie & R.G. Latta. Dalhousie University Department of Biology
- P74 Genetic diversity and polyploidy of *Phragmites australis* by population comparison
S. Pinter & K. Hunter. Salisbury University
- P75 Population genetic structure of *Musculium securis* (Sphaeriidae, Bivalvia) in a group of temporary ponds
N. Reynolds, A. Bohonak, C. Charlton, & D. Jenkins. University of Illinois, Springfield
- P76 Autumn leaf senescence –Genotypic variation within and among populations
K. Schwaegerle & M. Mueller. University of Alaska, Fairbanks
- P77 Genetical diversity of the mangrove and terrestrial populations of *Hibiscus tiliaceus* and *Heritiera littoralis* based on AFLP and ISSR
S. Shi. School of Life Sciences, Zhongshan University
- P78 Molecular characterization of tetranucleotide microsatellites in the smallmouth salamander (*Ambystoma texanum*)*
R. N. Williams & J. A. DeWoody. Purdue University

Life History Evolution

- P79 Phylogenetic origins of a complex behavior (weaving) in a genus of ants: Molecular phylogeny of the genus *Polyrhachis*
A.T. Beckenbach, S.K. Robson, R. Kohout, & R.H. Crozier. Simon Fraser University

- P80 Age related variation in yolk testosterone levels may limit egg size in *Chrysemys picta*
R. M. Bowden, H. K. Harms, & F. J. Janzen. Iowa State University
- P81 Evolution of senescence in mice genetically selected for high voluntary wheel running
A. M. Bronikowski, T. J. Morgan, T. Garland Jr., & P. A. Carter. University of Wisconsin, Madison
- P82 Does the length of the breeding season select for more rapid growth rate in rodents?
E. M. Derrickson. Loyola College
- P83 Relatedness and reproduction in polygynous nests of the yellowjacket, *Vespula squamosa*
G. Fritz, S. Stewart, & A. J. Deets. Eastern Illinois University
- P84 Marker-based estimates of inheritance of neonatal body size in nature
F. Janzen, R. Bowden, & D. Pearse. Iowa State University
- P85 Correlations among life history traits in the gametophyte and sporophyte generations of the moss *Ceratodon purpureus**
S. F. McDaniel & A. J. Shaw. Duke University
- P86 Island syndrome: Microevolution of *Peromyscus maniculatus* on the islands of Charlevoix County, Michigan
O. Podlaha. University of Michigan, Ann Arbor
- P87 Slowing the approach of the grim reaper? Causes of mortality plateaus in *Drosophila melanogaster*
R. Reynolds & K. Hughes. University of Illinois, Urbana-Champaign
- P88 Prenatal sex ratio influences sexual dimorphism in a reptile
T. Uller & M. Olsson. University of Gothenburg

Mating / Breeding Systems

- P89 Immunocompetence and extra-pair copulation in the red-billed gull from Kaikoura Peninsula, New Zealand
N. L. Chong, A.D. Given & A.J. Baker. University of Toronto and Royal Ontario Museum
- P90 Sperm storage patterns in the fruit fly, *Anastrepha suspensa*
A. Fritz. Eastern Illinois University
- P91 The influence of size, genetics, and competition on alternative male mating behaviors in guppies
K. Hughes, H. Rodd, & D. Reznick. University of Illinois
- P92 Mixed mating: Does it really occur in trees?
D. G. Scofield & S. T. Schultz. Department of Biology, University of Miami

- P93 Exploration of the role of herbivory in the expression of a mixed mating system
J. A. Steets & T-L. Ashman. University of Pittsburgh
- P94 Clonal reproduction and the maintenance of self-incompatibility
M. Vallejo-Marin & M. Uyenoyama. Duke University
- ## Molecular Evolution
- P95 Genetic architecture for growth traits and molecular markers in *Pinus halepensis* Mill
R. Alia. Indiana University
- P96 Cytochrome b molecular evolution in lava lizards (*Tropiduridae; Microlophus*) of the Galapagos Archipelago.
E. Benavides, D. McClellan, & J. W. Sites. Brigham Young University
- P97 Integrating genomics, bioinformatics and classical genetics to study the effects of recombination on genome evolution
J.A. Birdsell. University of Arizona
- P98 Molecular evolution of the Major Histocompatibility Complex in the African clawed frog (*Xenopus laevis*) *
D. H. Bos & B. Waldman. University of Canterbury
- P99 The molecular evolution of the DNA binding domain of Himar1 mariner transposase
M. Butler, S. Chakraborty, & D. Lampe. Duquesne University
- P100 Molecular evolution within Acrididae (Insecta, Orthoptera, Caelifera)
I.C. Chintauan-Marquier, C. Amedegnato & F. Pompanon. Laboratoire de Biologie des Populations d'Altitude
- P101 Natural selection in glycolytic genes of bacteria
W.J. Diehl. Mississippi State University
- P102 Exploring non-LTR retrotransposon lineage diversity in teleost genomes using degenerate PCR
D.D. Duvernall, S.Adams, K. Miller, & S.R. Pryor. Southern Illinois University, Edwardsville
- P103 Melanic plumage patterns in Old World leaf warblers do not correspond to sequence variation in the melanocortin-1 receptor locusin
E. A. MacDougall-Shackleton, H. L. Gibbs, & T. D. Price. Ohio State University
- P104 Patterns of codon usage in the yeast genome.
M. Santiago, N. Irving, & R.M. Kliman. Kean University
- P105 Using P element mediated deletions, activity variants and 2-D NMR spectroscopy to estimate control coefficients in *D. melanogaster*
T. J. S. Merritt & W. F. Eanes. SUNY-Stony Brook
- P106 Does selection intensity change over time in MHC genealogies?
D. Meyer. University of California
- P107 Molecular evolution of the myb gene family in grasses
A. Norris & V. Oberholzer Vandergon. California State University, Northridge
- P108 Accounting for background nucleotide composition when measuring codon usage bias
J. Novembre. University of California, Berkeley
- P109 Evolution of intron size in *Caenorhabditis elegans*
M. Palopoli, A. Prachumwat, & L. DeVincentis. Bowdoin College
- P110 The promoters of recently active LINE-1 elements in deer mice
L. Scott & H. Wichman. University of Idaho
- P111 Mitochondrial genomes of beetles and comparisons with those of other hexapods
J.B. Stewart, R. Falsafi, & A.T. Beckenbach. Simon Fraser University
- P112 Estimating the distribution of mutational fitness effects from DNA sequence data
S. Williamson. University of Kansas
- P113 A study of the phylogeny of *Brassica*, *Rorippa*, *Capsella*, and allied genera based on the noncoding regions of chloroplast DNA
Yau-Wen Yang, Pon-Yean Tai, & Ju-Yu Wang. Institute of Botany, Academia Sinica, Taiwan
- ## Quantitative Genetics
- P114 A microarray analysis to identify candidate genes for ethanol tolerance in *Drosophila melanogaster*
B. Caletka & J. D. Fry. University of Rochester
- P115 Morphological stasis in a copepod species complex: Qst and Gst in lab and wild populations
C. Eunmi Lee. University of Wisconsin, Madison
- P116 Inheritance, natural selection, and sexual selection of body size and plumage characters in the dark-eyed junco, *Junco hyemalis*
J. W. McGlothlin, P. G. Parker, V. Nolan Jr., & E. D. Ketterson. Indiana University, Bloomington

- P117 Cancelled
- P118 DNA microarray analysis of overcompensation in *Arabidopsis*
D. Mooney. University of Illinois, Urbana-Champaign
- Population Genetics**
- P119 Limited interspecific gene flow between *Quercus lobata* and *Quercus douglasii* (Fagaceae) in a mixed stand in central coastal California
K. Craft. University of Illinois, Chicago
- P120 Genetic analysis of a contact zone between two species of leopard frogs
M. R. Di Candia & E. J. Routman. San Francisco State University
- P121 Evidence for positive selection at McIr, a gene underlying adaptive color variation in pocket mice
K.E. Drumm, H.E. Hoekstra, & M.W. Nachman. University of Arizona
- P122 Using sequence data to test models for the persistence of duplicate genes
D.P. Genereux & J.M. Logsdon, Jr. Emory University
- P123 Determinates of differentiation in Andean frogs: isolation vs. selection
D. Koscinski, P. L. Tubaro, & S. C. Lougheed. Queen's University
- P124 Spatial and temporal population structure in a wild lemur population
R. R. Lawler, A. F. Richard, & M. A. Riley. Yale University
- P125 Population genetics of the Giant Amazon River Turtle, (*Podocnemis expansa*), in the Amazon and Orinoco river basins
D.E. Pearse, V.H. Cantarelli, & J.W. Sites, Jr. Brigham Young University
- P126 DNA sequence diversity In *Crassostrea virginica* in the Chesapeake Bay*
C. Rose & M. Hare. University of Maryland, College Park
- P127 Adaptive amino acid evolution at the G6PH locus in *Drosophila simulans*
E. Sezgin & W. F. Eanes. State University of New York, Stony Brook
- P128 Isolation, characterization, and chromosome mapping of microsatellites in *Drosophila ananassae*
S. Smith & M. Schug. University of North Carolina, Greensboro
- P129 Testing for evidence of population-specific selective sweeps in humans using interlocus patterns of microsatellite variation
J. F. Storz, B. A. Payseur & M. W. Nachman. University of Arizona
- P130 Inferences of *Drosophila ananassae* population structure using microsatellites
A. Tozier Pierce, S. Smith & M. Schug. University of North Carolina, Greensboro
- P131 Do systems of mating that incorporate more than one male mate per female really increase inbreeding effective numbers?
M. Tringali. Florida Fish and Wildlife Commission
- P132 Evidence of natural selection on pigmentation genes in Caribbean *Drosophila*
J. Wilder & H. Hollocher. Princeton University
- Mutations**
- P133 Direct estimate of microsatellite mutation rates in *Daphnia*
D.E. Allen, J. Colbourne, & M. Lynch. Indiana University
- P134 The influence of premeiotic clusters of mutation on indirect estimations of mutation rate
Yi Gong, Sheng Gu, & R. C. Woodruff. Bowling Green State University
- P135 Mutational effects and genetic background interactions in *Daphnia pulicaria*
S. Kolpak, K. Morgan, D. Allen, & M. Lynch. University of Oregon
- P136 The effects of mutation accumulation on fitness of field populations of *Raphanus raphanistrum*
A. Roles & J. Conner. Kellogg Biological Station, Michigan State University
- Hybridization**
- P137 Discordant patterns of allozyme and non-allozyme marker introgression across a mussel hybrid zone
A. J. Abrams & C. Riginos. Duke University
- P138 Barriers to hybridization in the blue mussel (*Mytilus edulis* and *M. trossulus*) hybrid zone in Atlantic Canada
M. Miranda, D. Innes, & R. Thompson. Memorial University of Newfoundland
- P139 Microsatellite structure in the *Piriiqueta caroliniana* complex's expanding hybrid zone
J. Rhode & M. Cruzan. Portland State University

P140 Cancelled

P141 An analysis of introgression in the European house mouse hybrid zone

K. Teeter & P. Tucker. University of Michigan

Inbreeding

P142 Testing for stress dependent inbreeding depression in maternal and progeny generations in *Impatiens capensis*
M. S. Heschel, N. Hausmann, C. Riginos, & J. Schmitt.
University of Connecticut

P143 Causes of inbreeding depression in the androdioecious shrimp, *Eulimnadia texana*

S. Weeks. The University of Akron

Speciation

P144 Replicated evolution of male coloration in stream and anadromous pairs of threespine stickleback, *Gasterosteus aculeatus*

S.M. Aurit & J.S. McKinnon. University of Wisconsin, Whitewater

P145 Recent speciation in the Orchard Oriole group:
Divergence of *Icterus spurius spurius* and *I. s. fuertesi**
J. M. Baker, E. López-Medrano, A. G. Navarro-Sigüenza,
O. R. Rojas-Soto, & K. E. Omland. University of Maryland, Baltimore County

P146 Ecological speciation in *Eurosta solidaginis*

T. Craig & J. K. Itami. University of Minnesota, Duluth

P147 Towards a genetic characterization of diapause in *Rhagoletis* (Diptera:Tephritidae)

H. Dambroski & J. Feder. University of Notre Dame

P148 The genetics of sexual isolation in European corn borer moths (*Ostrinia nubilalis*)

E.B. Dopman & R.G. Harrison. Cornell University

P149 Rates of evolutionary loss of hybridization potential and molecular evolution in tetrapods

B. M. Fitzpatrick, University of California, Davis

P150 Effect of interspecies introgression on the genetics of hybrid sterility

L.M. Henagan, D. Ortiz-Barrientos, & M.A.F. Noor. Louisiana State University

P151 The examination of stage-specific germline defects in *Drosophila* hybrids using rescue lines

H. Hollocher & A. Sainz. University of Notre Dame

P152 The evolution of karyotype diversity: a molecular phylogeny of *Agrodiaetus* Hübner 1822 (Lepidoptera: Lycaenidae) inferred from mtDNA sequences for COI and COII*

N. Kandul, V. Lukhtanov, A. Dantchenko, J. Coleman, & N. Pierce. Harvard University

P153 Morphological evolution in stream and anadromous sticklebacks from Asia, Europe, and North America *

P. Katz, C. P. Kealy, & J. S. McKinnon. University of Wisconsin, Whitewater

P154 Recent speciation in Indo-West Pacific sea urchins
C. R. Landry, L.B. Geyer, & S.R. Palumbi. OEB, Harvard University

P155 Behavioral aspects of reproductive isolation among 10 populations of threespine stickleback
W.L. Paulson, S.S. Shell, J.P. Heltemes, E.L. Sassman, J. Poole & J.S. McKinnon. University of Wisconsin, Whitewater

P156 The effect of cuticular waxes on reproductive isolation in stalk-eyed flies
B. Peterson, S. Toll, & G. Wilkinson. University of Maryland

P157 Does the candidate speciation gene, *cid*, underlie hybrid rescue in *Drosophila*?
A. Sainz, J. Wilder, & H. Hollocher. University of Notre Dame

P158 Sensory drive in bladder grasshoppers

M. van Staaden, V. Coulsridge, & N. Donelson. Bowling Green State University

P159 Divergence of incipient species of pea aphids at selected and neutral loci

J. West, D. Hawthorne, & S. Via. University of Maryland

Species Interactions

P160 Fitness effects of single and mixed gut parasite infections in woodland *Drosophila*

M. Ebbert, J. Burkholder, & J. Marlowe. Miami University

P161 When two strains meet: Competition between alternative parasite strategies

G. Harper. University of North Carolina, Chapel Hill

P162 *Agonopterix alstroemeriana* and poison hemlock: Changes in plant defenses upon re-establishment of herbivory

K. Lustofin & M. Berenbaum. University of Illinois, Urbana-Champaign

Adaptation

- P163 Quantitative genetics and the foraging/predation risk trade-off in tadpole
T. Watkins & M. McPeek. Macalester College
- P164 Adaptive divergence in response to water stress by edaphic races in *Lasthenia californica* (Asteraceae)
J. Whitton & N. Rajakaruna. Univ. British Columbia
- P165 Natural selection in space and the evolution of dispersal endurance in discontinuous habitats *
R. Yukilevich. State University of New York, Stony Brook
- P166 Adaptive radiation in experimental microcosms
J. Brumley & M. Travisano. University of Houston
- P167 Evolutionary history influences host range
K. Pepin, C. Burch, & H. Wichman. University of Idaho
- P168 Evolution of evolvability: an example with yeast prions
J. Masel & A. Bergman. Stanford University

Evolution of Microorganisms

- P169 Genotypic and phenotypic variation in an expanded collection of microvirid phage
D. Rokyta, C. Burch, & H. Wichman. University of Idaho
- P170 Barriers to horizontal transmission of insect-associated endosymbionts
J. A. Russell, P. Tran, C. Dale, & N. A. Moran. University of Arizona

Genomics

- P171 Is *Wolbachia* horizontally transmitted?
W. Harcombe. University of North Carolina
- P172 SNPs development in sunflower using DHPLC
Z. Lai, K. Livingstone, & L. Rieseberg. Indiana University
- P173 Use of transcription patterns to assess stress levels in fathead minnows
S. Lewis, S. Keller, D. Lattier, J. Lazorchak, & M. Smith. University of Cincinnati
- P174 Genetic linkage mapping of a homosporous fern, *Ceratopteris richardii*
T. Nakazato & G. Gastony. Indiana University
- P175 Patterns of natural selection in the order Mycoplasmatales
J. D. Perkins III & W.J. Diehl. Mississippi State University

- P176 Reticulate evolution and phylogenetics of rat inbred strains
M.A. Thomas, M.I. Jensen-Seaman, C.-F. Chen, & S. Twigger. Medical College of Wisconsin

- P177 On the feasibility of converting RAPD markers from dominant to codominant for population studies

B. Wang, E. Levin, & A. Porter. University of Massachusetts, Amherst

- P178 Cancelled

- P179 Comparative genomics of disease genes

W. Wu, M. Joseph, M. Thomas, & P. Tonellato. Medical College of Wisconsin

- P180 Thermal tolerance and the evolution of Hawaiian picture-winged *Drosophila*

A. Reza, M. Dohm, S. Moore, S. Renn, C. Muir, D. Price, & W. Mautz. University of Hawaii at Hilo/Biology Department

- P181 Morphological and functional integration in the Papionin primate mandibular symphysis

C. Vinyard & B. Payseur. Duke University

Development & Evolution

- P182 Cancelled

- P183 Correlated responses to adaptation in *Myxococcus xanthus*

C. Landry & M. Travisano. University of Houston

- P184 A Shh-Bmp2 developmental module and the evolution of feather branched structure

R. O. Prum, M. P. Harris, & J. F. Fallon. University of Kansas

- P185 Genetic chimerism of marmosets

C.N. Ross, G. Orti, & J.A. French. University of Nebraska

Evolution of Behavior

- P186 Comparative escape behavior of Chihuahuan desert parthenogenetic and gonochoristic whiptail lizards
P. Hotchkiss & H. Riveroll Jr. The University of Texas, El Paso

- P187 Is geographic variation in nest-site choice adaptive in a reptile with temperature-dependent sex determination?
C. Morjan. Iowa State University

- P188 Zebrafish as a model system for studying the genetic architecture of behavior

B. Robison, M. Walden, B. Rowland, & M. Lynch. Indiana University

- P189 Genetic basis for persistent mating behavior in a species of cactophilic *Drosophila*
E. Ruedi, C. Tymczynal-Cobbs, & K. Hughes. University of Illinois, Urbana-Champaign
- P190 Colony budding and intercolonial aggression in the red imported fire ant
A. Zarabi & D. Wiernasz. University of Houston

Sexual Selection

- P191 Patterns of assortative mating in the Hawaiian cricket *Laupala*: do differences in song lead to assortative mating within and between species?
J. L. Grace & K. L. Shaw. University of Maryland, College Park
- P192 Polyandry provides genetic benefits in the decorated cricket (*Gryllodes sigillatus*)
T. M. Ivy. Illinois State University
- P193 Phenotypic correlation between male aggression and female mating behavior in the genus *Nasonia*
J.E. Leonard & C.R.B. Boake. University of Tennessee, Knoxville

Evolution of Sex

- P194 Mate choice and the maintenance of sex
R. S. Howard. Middle Tennessee State University
- P195 Offspring production increases with copulation frequency and access to males in parthenogenetic *Potamopyrgus antipodarum*
M. B. Neiman & C. M. Lively. Indiana University

Coevolution

- P196 Host defense determines host specificity
S. Al-Tamimi & D. Clayton. University of Utah
- P197 Determining the age of avian lice by brute force.
T. Ford & R.D.M. Page. Glasgow University
- P198 Regional and local variation in susceptibility to a protist parasite in the treehole mosquito, *Ochlerotatus sierrensis*
H. H. Ganz. University of California, Davis
- P199 Conserved response elements in the promoter of substrate inducible cytochrome P450
C. McDonnell, R. Petersen, M. Berenbaum, & M. Schuler. University of Illinois, Urbana-Champaign

- P200 Transcriptional regulation of an insect P450 gene by plant chemicals *
R. A. Petersen, M. Berenbaum, & M. Schuler. University of Illinois, Urbana-Champaign
- P201 Stable isotopes reveal variable host use in a Neotropical ant-plant association
S.T. Trimble & C.L. Sagers. University of Arkansas
- P202 Lies I have told about lice: a fresh look at avian louse phylogeny
V. Smith & K. Johnson. University of Glasgow

Phenotypic Plasticity and GxE

- P203 Quantitative genetics of continuous reaction norms: thermal sensitivity of growth in *Pieris rapae*
J. G. Kingsolver & G. J. Ragland. University of North Carolina, Chapel Hill
- P204 The effects of temporal and spatial heterogeneity on trait evolution: A framework
J. A. Stamberger. Stanford University
- P205 Phenotypic plasticity in *Arabidopsis thaliana* exposed to elevated CO₂ and herbivory
M.G. Bidart-Bouzat, K.N. Paige, E.H. DeLucia, & M.R. Berenbaum. University of Illinois, Urbana-Champaign

Plant Reproductive Biology

- P206 The effect of interspecific competition for pollinator service on pollen dispersal and mating patterns in *Mimulus ringens*
J. Bell, J. Karron, & R. Mitchell. University of Wisconsin, Milwaukee
- P207 Effects of multiple visits by pollinators on the reproductive success of *Lupinus perennis*
S. J. Hevner, H. J. Michaels, & R. J. Mitchell. Bowling Green State University
- P208 The influence of floral design and pollinator attributes on pollen carryover and mating patterns of *Mimulus ringens*
K. Holmquist, J. Karron, & R. Mitchell. University of Wisconsin, Milwaukee
- P209 Selfing as a means of reproductive isolation under pollinator-mediated interspecific competition
R. Smith & M. Rausher. Duke University
- P210 Frequency- and density-dependent fitness in gynodioecious *Geranium richardsonii*: effects at the population and neighborhood levels
C. F. Williams, M. Piantek, & A. Gibson. Idaho State University

Agriculture

- P211 Ancient DNA for construction of phylogenetic relationship of primitive wheat species from Turkey
H. Bilgic & M.S. Akkaya. Middle East Technical University
- P212 Reducing the use of costly refuges in Bt transgenic crops
C. Vacher, D. Bourguet, & M. Hochberg. University of Montpellier II, France
- P213 Genotypes at the BoCAL locus in broccoli, cauliflower, and purple cauliflower accessions
J.A. Labate, L.D. Robertson, & T. Bjorkman. USDA-ARS, Cornell Univ.
- P214 Correlations among morphological and fertility factors segregating in an interspecific tomato cross
K. Livingstone & L. Rieseberg. Indiana University
- P215 Speciation and adaptive radiation in cecidomyiid flies
J.B. Joy. Simon Fraser University

Guide to Restaurants

Within Walking Distance of the Illini Union

American

- Dewey's Other Place, 301 East Green, Champaign, 278-3000
DJ's Italian Beef, 612 East Daniel, Champaign, 367-5754
Foudini's, 306½ East Green, Champaign, 384-2607
Wonderdogs, 605 South Wright, Champaign, 355-9090
Ye Olde Hickory Pit, 60 E. Green, Champaign, 344-0710

Breakfast

- International House of Pancakes, 308 East Green, Champaign, 351-6972

Café/Coffeehouse

- Café Paradiso, 801 South Lincoln, Urbana, 384-6066
The Daily Grind, 502 East John, Champaign, 337-5511
Espresso Royale, 1117 West Oregon, Urbana, 337-6160; 602 East Daniel, Champaign, 328-1112; 1401 West Green, Urbana, 328-1335 (located on the 1st Floor *Illini Union*)
Palette Café by Espresso Royale at Krannert Art Museum, 500 East Peabody, Champaign, 344-2791
Green Street Coffeehouse, 608 East Green, Champaign, 344-5374
Intermezzo Café at Krannert Center for the Performing Arts, 500 South Goodwin, Urbana, 333-8412
One World Café, 809 South Fifth, Champaign, 344-0102

Chinese

- Chinese Express, 39 East Green, Champaign, 328-1818
Empire Chinese, 410 East Green, Champaign, 328-0832
Home of Gourmet Chinese & Thai, 604 East Daniel, Champaign, 344-7483
Hot Wok Express, 1102 West University, Urbana, 384-7170
Mandarin Wok, 403 East Green, Champaign, 337-1200
Ren's Chinese Restaurant, 410 East Green, Champaign, (no phone listed)

Rice Garden, 1401 West Green, Urbana, 328-6722 (lower level *Illini Union*)

- Yen Ching, 613 South Wright, Champaign, 328-0088
Yen Jing, 404 East Green, Champaign, 352-2272

Greek

- Mykonos, 313 East Green, Champaign, 344-3090
Niro's Gyros, 1007 West University, Urbana, 328-6476
Zorba's Restaurant, 627 East Green, Champaign, 344-0710

International

- Happy Wanderer, 404 East Green, Champaign, 344-0244

Italian

- Timpone's, 710 S. Goodwin, Urbana, 344-7610
Za's Italian Café, 629 E. Green, Champaign.

Japanese

- Asiana, 408 East Green, Champaign, 398-3344

Korean

- A-Ri-Rang, 607 West Wright, Champaign, 355-5570
Dorcas, 403 East Green, Champaign, 337-7726
Seoul Carryout, 313 East Green, Champaign, 337-6686

Mexican

- El Desmadre, 625 East Green, Champaign, 384-5902
La Bamba, 606 South Sixth, Champaign, 344-6600

Microbrewery

- Joe's Brewery, 706 South Fifth, Champaign, 384-1790

Middle Eastern

- Jerusalem Middle Eastern Cuisine, 398-9022

Pizza

- Bonnie Jean's**, 901 South Fourth, 239-2001
- Domino's Pizza**, 102 East Green, Champaign, 355-0717
- Garcia's Pizza**, 108 East Green, Champaign, 359-1212
- Papa Del's Pizza**, 411 East Green, Champaign, 344-2218
- Pizza Magia**, 508 East Green, Champaign, 344-4000
- Pizza Planet**, 33 East Green, Champaign, 328-5300
- Sbarro**, 1401 West Green, Urbana, 337-0100 (lower level *Illini Union*)

Pub Fare

- Legends**, 522 East Green, Champaign, 355-7674
- Murphy's Pub**, 604 East Green, Champaign, 352-7275
- White Horse Inn**, 112½ East Green, Champaign, 352-5945

Sandwiches/Deli

- Blimpie's**, 1401 West Green, Urbana, 337-0107 (lower level *Illini Union*)
- The Bread Company**, 705 South Goodwin, Urbana, 383-1007
- Jimmy John's**, 807 South Lincoln, Urbana, 328-3100; 43 East Green, Champaign, 344-6200
- Panera Bread**, 510 East John, 328-0024
- The Pita Pit**, 611 East Green, Champaign, 337-7482
- Subway**, 616 East Green, Champaign, 239-0108; 610 E. Daniel, Champaign, 383-1033

Thai/Vietnamese

- Basil Thai**, 410 East Green, Champaign, 344-9130
- Pho Tran**, 1106 West University, Urbana, 365-0051
- The Y Eatery**, 1001 South Wright, 344-5040

Vegetarian

- The Garden Grill @ The Canopy**, 708 South Goodwin, Urbana, 344-2263
- Red Herring Vegetarian Restaurant**, 1209 West Oregon, Urbana, 367-2340

Sweet Tooth

- Delights**, 1115 West Oregon, Urbana, 337-7982
- Moonstruck Chocolate Bar**, 709 South Wright, Champaign, 367-7402
- The Cookie Jar**, 712 South Sixth, Champaign, 384-5246

Nightlife

not within walking distance of the Illini Union

- Boltini**, 211 North Neil, Champaign, 378-8001
- C-Street**, 63 Chester, Champaign, 356-5607
- Embassy**, 114 South Race, Urbana, 384-9526
- Esquire**, 106 North Walnut, Champaign, 398-5858
- Iron Post**, 120 South Race, Urbana, 337-7678
- Jillian's** 102 South Neil, Champaign, 355-2800
- Jupiter's**, 39 East Main, Champaign, 398-5988
- Mike & Molly's**, 105 North Market, Champaign, 355-1236
- Rose Bowl**, 106 North Race, Urbana, 367-7031
- Two Main**, 2 East Main, Champaign, 359-3148

This list is for information only. It does not serve as a recommendation.

Things to do in Urbana-Champaign and nearby

Campus

- Altgeld Chimes Tower tour 12:30-1:00 PM weekdays. Enter through 323 Altgeld Hall.
- Arboretum, Lincoln Avenue, Urbana, IL; features Hartley Selections garden, an Ideas garden and a children's garden.
- Illini Union, 1401 W. Green, Urbana. Offers services and facilities to visitors, including a bowling alley, art gallery, video arcade, and billiards hall.
- Japan House tours, 1-4 PM Thursdays.
- John Phillip Sousa Museum, Harding Band Building. Houses the papers, uniforms, instruments, and other personal effects of legendary band leader John Phillip Sousa. By appointment (Ph. 244-9309).
- Krannert Art Museum and Kincaid Pavilion, 500 E. Peabody Dr., Champaign. The second-largest art museum in the state of Illinois, Krannert Art Museum offers over 1,000 works of art from 4,000 BC to the present, including Old Masters, ceramics, sculpture, photography and Asian art. Free admission, 333-1860.
- Krannert Center for Performing Arts; complex of theaters designed by Max Abramowitz, UIUC alumnus and architect of Lincoln Center in New York; teakwood floors and marble accents, with Promenade, an international gift shop with a performing arts theme, and Intermezzo, a European-style pastry bar. Tours 3 PM daily; meet in Main Lobby. 333-6280
- Main Library, sixth largest library in the United States; open Monday-Thursday 8 AM to midnight, Friday-Saturday 8 AM-6 PM, Sunday 1 PM-midnight. Self-guided audiocassette tours are available at the Information Desk, second floor of main library, or Media Center of Undergraduate Library
- Meat Salesroom, 102 Meat Sciences Lab. 1-5:30 PM Tuesday and Thursday, 8 AM-1 PM Friday. Retail outlet for Dept. Animal Sciences federally inspected beef, pork, and lamb.
- Morrow Plots, just east of the Undergraduate Library. The site of the oldest continuous soil fertility experiment in the Western hemisphere

Urbana

- Anita Purvis Nature Center., 505 N. Broadway, Urbana. 8 AM-6 PM Mon-Sat., 12-5 PM Sunday. Trails through Busey Woods, natural history and geology displays, Discovery Room for children.
- Crystal Lake Park, Race and Park Streets, Urbana. Boating, open air concession, playground, sports equipment and playgrounds.
- Farmer's market, Saturday mornings in parking lot of Lincoln Square Mall, Illinois and Broadway. Features fresh fruit and vegetables, Amish pastries, breads, herbs, arts and crafts; musical entertainment.
- Field of Greens miniature golf, inside Lincoln Square Mall; 255-5170. Monday, Tuesday, Thursday, Friday 3:30-9:30 PM, Wednesday 1-9:30 PM, Saturday 10-9:30 PM, Sunday 12-6 PM
- Meadowbrook Park and PrairiePlay, Windsor and Vine Streets, Urbana. Featuring playground, bicycle paths, sculpture garden, and largest municipal reconstructed prairie in the state.

Champaign

- Centennial Park Prairie Farm Petting Zoo, West Kirby Avenue, Champaign. With pettable farm animals such as pigs, ponies, donkeys, rabbits, pigs, chickens, ducks, and geese along with a few nonfarm species such as deer and turtles. Play areas, slide, and wagon rides. Hours 1 PM-8 PM Monday through Friday, noon-8 PM Saturday and Sunday.
- Champaign County Historical Museum, Cattle Bank, 102 E. University, Champaign. In the oldest commercial building in the county, the museum includes replica of turn-of the century grocery store; items from Illinois Central Railroad; period clothing; memorabilia relating to the history of neighboring communities.
- Orpheum Children's Science Museum, 346 N. Neil Street, Champaign. Hands-on children's science museum; featuring "Waterworks," sponsored by U.S. Geological Society. 9 AM-12 PM, 1-5 PM Wednesday; 1-5 PM Thursday-Sunday. Admission \$2-3. 352-5895
- Staerkel Planetarium, on the campus of Parkland Community College, 2400 W. Bradley Avenue, second-largest planetarium in the state of Illinois.

Special events in town during Evolution 2002

Arcola/Arthur

- Amish Interpretive Center, 111 S. Locust St., Arcola. 10 AM – 5:30 PM Monday–Saturday. Admission adults \$2/75, children 6-11 \$2.25, under 6 free. 888-452-6474 Arthur is the home of the fourth largest Amish community in the U.S.; the Amish Interpretive Center offers Amish museum and video.
- Rockome Garden, 5 miles off I-57 exit 203. Amish theme park with "Old Bagdad" reconstructed turn of the century town, formal gardens, rock (and bottle) sculptures, buggy rides, haunted house, craft and food shops. Open daily 9-5, free admission. 268-4106.

Mahomet

Early American Museum, Lake of the Woods, 1/4 mi north of I-74 on IL 47. Historic collections highlighting local Grand Prairie settlers. "Blacksmithing on the Prairie," Discovery room for children. 10 AM to 5 PM weekends, 586-2612.

Monticello

- Monticello Railroad Museum, frontage road off I-72. Restored Illinois Central depot, with historical artifacts and steam train that runs to the Wabash depot in downtown Monticello.
- Robert Allerton Park, open 8 AM to dusk daily. Modeled after Ham House in England, with 10,000 acres housing formal gardens, sculptures, Georgian mansion, greenhouses, restored prairie and extensive tract of bottomland forest. Designated a National Natural Landmark. "Allerton Legacy" exhibit at Visitors' Center. Garden tours call 333-2127

Rantoul

- Hardy's Evergreen Acres and Reindeer Ranch, 3 mi. west of I-57, ph. 893-3407. Herd of genuine Alaskan reindeer, 4-acre corn maze, Christmas tree farm and store.
- Octave Chanute Air Museum, 1011 Pacesetter Drive, Rantoul. 10 AM-5 PM Friday, Saturday, Monday–Thursday; 12 PM to 4 PM Sunday. 893-1613. Vintage bombers, fighter planes, reconstructed missile silo, cargo planes, and Illinois Military Aviation Hall of Fame.

June 28

Urbana Country Dances Contra Dance, Phillips Recreation Center, 505 W. Stoughton, Urbana. 8-11 pm. \$5 admission

Stories at Sunset, Meadowbrook Park, Race Street entrance, Urbana, IL. 8-9:30 pm. \$2.

Concert, Hessel Park, Champaign. Music by Mark Foutch Brass Band. 6:30-8:00 pm. 398-2589.

Pink Floyd's Dark Side of the Moon, W.M. Staerkel Planetarium, Parkland College, Champaign. 9:30 pm. 351-2446.

"Murder Among Friends," Studio Theatre, Krannert Center for Performing Arts, Urbana. 8 pm. 333-6280.

Duke Tumato and the Power Trio, Fat City Saloon, Champaign

Keith Harden, Iron Post, Urbana

The Failures, Hero of the Year, Fallen Star at Canopy Club, Urbana

The Virtues, Mike n' Molly's, Champaign

June 29

Great Annual Rocket Launch, Pick Dodds Park, Champaign. Theme: Rockets of the Corn. 10 am to 4 pm. 359-8225.

Good Vibrations Concert, Garden Hills Park, Champaign. Blues rock music by Jam Nation. 7-8:30 pm. 398-2589.

"Merton at the Movies," Studio Theatre, Krannert Center for Performing Arts, Urbana. 8 pm. 333-6280.

Pink Floyd's Dark Side of the Moon, W.M. Staerkel Planetarium, Parkland College, Champaign. 9:30 pm. 351-2446.

Absinthe Blind, American Cosmonaut, Everybody Uh Oh, Canopy Club, Urbana

June 30

Concert, Hessel Park, Champaign. Swing music by Bruiser and the Virtues, 6:30-8:30 pm.

Weekend Wonders, Anita Purves Nature Center, Urbana. 1-3 pm. 367-1544.

"Educating Rita," Studio Theatre, Krannert Center for Performing Arts, Urbana. 7 pm. 333-6280.

July 1

Lost Strait Jackets, Big Sandy and his Fly-Rite Boys, High Dive, Champaign

Participant list

as of May 21, 2002

Jeanine Abrams, Duke University,
aja4@duke.edu

Dean C. Adams, Iowa State University,
dcadams@iastate.edu

Keith Adams, Iowa State University,
kladams@iastate.edu

Stephanie Adams, Southern Illinois University-Edwardsville, ribbitt325@aol.com

Sarah Al-Tamimi, University of Utah,
altamimi@biology.utah.edu

James Albright, Florida State University,
albright@bio.fsu.edu

Preston Aldrich, Purdue University,
preston@fnr.purdue.edu

Heather Alexander, Simon Fraser University,
hjbrook@sfsu.ca

Michael Alfaro, University of California-Davis, malfaro@ucdavis.edu

Ricardo Alia, Indiana University,
ralia@bio.indiana.edu

Julie Alipaz, Harvard University,
jalipaz@oeb.harvard.edu

Desiree Allen, Indiana University,
dallen@bio.indiana.edu

Eva Allen, Indiana University,
ersander@indiana.edu

Brian Alters, McGill University,
brian.alters@mcmill.ca

Tasha Altheide, University of Arizona,
altheide@u.arizona.edu

Yvette Alva, San Francisco Southern University, yvettealva@hotmail.com

Eric Anderson, University of California,
dr_ericq@uclink.berkeley.edu

Frank Anderson, Southern Illinois University,
feander@siu.edu

Jennifer Anderson, University of Illinois,
jandrsn1@uiuc.edu

Lynn L. Anderson, University of Illinois,
landerso@uiuc.edu

M. Rebecca Anderson, Illinois State University,
banderso@ilstu.edu

Lisa Angeloni, University of Wisconsin-Madison, langeloni@facstaff.wisc.edu

Fritz Ann, Eastern Illinois University,
cfahf@eiu.edu

Nicola Anthony, Cardiff University,
anthonym2000@yahoo.co.uk

Hitoshi Araki, University of Chicago,
hitoshi@uchicago.edu

James Archie, California State University-Long Beach, jarchie@csulb.edu

Adorian Ardelean, University of Kansas,
adorian@ku.edu

Jeff Arendt, University California-Riverside,
jarendt@citrus.ucr.edu

Tia-Lynn Ashman, University of Pittsburgh,
tial1@pitt.edu

Wirt Atmar, AICS Research Inc. & The Field Museum, atmar@fieldmuseum.org

Sara Aurit, University of Wisconsin-Whitewater, saraaurit@hotmail.com

James Austin, Queen's University,
austinj@biology.queensu.ca

Luciano Avila, CONICET - Brigham Young University, luciano_javier@hotmail.com

Nadia Ayoub, University of Tennessee-Knoxville, nayoub@utk.edu

Eric Baack, University of California-Davis, ejbaack@ucdavis.edu

Courtney Babbitt, University of Chicago, ccbabbit@midway.uchicago.edu

Charles Baer, Indiana University,
cbaer@bio.indiana.edu

Jason Baker, University of Maryland,
jason.baker@umbc.edu

Christopher Balakrishnan, Boston University, cbala@bu.edu

Geoff Balme, North Carolina State University, Geoffrey_balme@ncsu.edu

David Baltrus, University of Oregon, dbaltrus@darkwing.uoregon.edu

Joshua Banta, University of Tennessee, josh_banta@yahoo.com

Camille Barr, University of California-Irvine, cbarr@uci.edu

Lilla Bartko, University of Missouri-St. Louis, valkyrie1@accessus.net

Farrah Bashey, University of California-Riverside, bashey@citrus.ucr.edu

Regina Baucom, University of Georgia, gbaucom@arches.uga.edu

David Baum, University of Wisconsin, dbbaum@facstaff.wisc.edu

Lorenza Beati, EPH-Yale School of Medicine, lorenza.beati@yale.edu

Andy Beckenbach, Simon Fraser University, beckenba@sfsu.ca

Peter Beerli, University of Washington, beerli@gs.washington.edu

Mattieu Begin, McGill University, mbegin1@po-box.mcgill.ca

Mark Beilstein, University of Missouri-St. Louis, mab347@studentmail.umsl.edu

Natalia Belfiore, Purdue University, nmbelfiore@fnr.purdue.edu

John Bell, University of Wisconsin-Milwaukee, jmbell@uwm.edu

Michael Bell, State University of New York, mabell@life.bio.sunysb.edu

Edgar Benavides, Brigham Young University, eb235@email.byu.edu

Adam Bennett, Salisbury University, arb5640@students.salisbury.edu

May Berenbaum, University of Illinois Urbana-Champaign, maybe@uiuc.edu

Stewart Berlocher, University of Illinois Urbana-Champaign, stewartb@life.uiuc.edu

Andrea Betancourt, University of Rochester, aabt@mail.rochester.edu

Esther Betrán, University of Chicago, ebetran@midway.uchicago.edu

M. Gabriela Bidart-Bouzat, University of Illinois Urbana-Champaign, bidartbo@hotmail.com

Christiane Biermann, Harvard University, biermann@u.washington.edu

John Birdsall, University of Arizona, birdsell@email.arizona.edu

Bill Birky, University of Arizona, birky@u.arizona.edu

Kenneth Birnbaum, New York University, kdb4348@nyu.edu

Alistair Blachford, Zoology UBC, alistair@zoology.ubc.ca

Daniel Blake, University of Illinois Urbana-Champaign, dblake@uiuc.edu

Justin Blumenstiel, Harvard University,

Christine R. Boake, University of Tennessee, cboake@utk.edu

David Bos, University of Canterbury, dhb25@student.canterbury.ac.nz

Franky Bossuyt, Free University of Brussels, fbossuyt@vub.ac.be

Kimberly Bostwick, Cornell University, bostwick@ku.edu	Kevin Burgess, University of Guelph, burgessk@uoguelph.ca	Karen Cavey, University of Illinois Urbana-Champaign, kcavey@life.uiuc.edu
Rachel Bowden, Iowa State University, rbowden@iastate.edu	Melissa Burns, University of Illinois-Chicago, mburns7@uic.edu	Lauren Chan, Cornell University, lmc36@cornell.edu
William Bradshaw, University of Oregon, bradshaw@darkwing.uoregon.edu	Ron Burton, Scripps Institution of Oceanography, rburton@ucsd.edu	Yvonne Chan, Stanford University, yvonnechan73@yahoo.com
Jennifer Brahic, San Francisco State University, jennerbrahic@yahoo.com	Jutta Buschbom, Field Museum of Natural History, jbuschbom@fmnh.org	Shu-Mei Chang, University of Georgia-Athens, chang@dogwood.botany.uga.edu
Matthew Brandley, San Diego State University, brandley@mail.sdsu.edu	Guy Bush, Michigan State University, bushfly@msu.edu	Wei Jen Chen, University of Nebraska, wchen@biocomp.unl.edu
W. Evan Braswell, New Mexico State University, wbraswel@nmsu.edu	Matthew Butler, Duquesne University, butler@duq.edu	Ioana C. Chintauan-Marquier, Laboratoire de Biologie des Populations d'Altitude, ioana.marquier@ujf-grenoble.fr
Michael Braun, Smithsonian Institution, braun@lab.si.edu	Diane Byers, Illinois State University, dlbyer2@ilstu.edu	Chi-hua Chiu, Rutgers University, chiu@biology.rutgers.edu
Felix Breden, Simon Fraser University, breden@sfsu.ca	Deanna Byrnes, University of Wisconsin, dpbyrnes@students.wisc.edu	Won Young Choi, University of Illinois Urbana-Champaign, choi@uiuc.edu
Jennifer Brisson, Washington University, brisson@biology.wustl.edu	Carla Caceres, University of Illinois Urbana-Champaign, caceres@life.uiuc.edu	Nicola Chong, University of Toronto and Royal Ontario Museum, nicola@zoo.utoronto.ca
Seth Britch, New Mexico State University, sbritch@nmsu.edu	Ana Caicedo, Washington University, alcaiced@artsci.wustl.edu	Sheri Church, Indiana University, sap3b@virginia.edu
Bob Brodman, Saint Joseph's College, bobb@saintjoe.edu	Bryan Caletka, University of Rochester, ctk@mail.rochester.edu	Maria Clauss, Max Planck Institute for Chemical Ecology, clauss@ice.mpg.de
Anne Bronikowski, Iowa State University, abronikowski@facstaff.wisc.edu	Sydney Cameron, University of Illinois Urbana-Champaign, sacmeron@life.uiuc.edu	Michael Clay, University of Texas-Arlington, michaelclay@aol.com
Rafe Brown, University of Texas -Austin, rafe@mail.utexas.edu	Jinx Campbell, University of Illinois Urbana-Champaign, jcampbe2@life.uiuc.edu	Dale Clayton, University of Utah, clayton@biology.utah.edu
Sam Brown, ISEM University Montpellier II, brown@isem.univ-montp2.fr	Lesley Campbell, Ohio State University, campbell.633@osu.edu	Sarah Cohen, Harvard University, scohen@oeb.harvard.edu
Steve Broyles, SUNY College-Cortland, broyles@cortland.edu	David Cannatella, University of Texas, catfish@mail.utexas.edu	Robert Colautti, University of Windsor, rob_colautti@yahoo.com
Jessica Brumley, University of Houston, jessijd@yahoo.com	David Carli, American University, carlini@american.edu	John Colbourne, Indiana University, jcolbour@indiana.edu
Johanne Brunet, Oregon State University, brunetj@bcc.orst.edu	Joel Carlin, University of Florida, joelcarlin@hotmail.com	Rachel Collin, STRI, collinr@naos.si.edu
David Bryant, McGill University, bryant@math.mcgill.ca	Shanna Carney, Colorado State University, secarney@lamar.colostate.edu	Sean Collins, University of Illinois Urbana-Champaign, scollins@uiuc.edu
Thomas Buckley, Landcare Research, buckleyt@landcareresearch.co.nz	Bryan Carstens, University of Idaho, cars5766@uidaho.edu	Timothy Collins, Florida International University, collinst@fiu.edu
Vanessa Bull, University College London, v.bull@ucl.ac.uk	Ashley Carter, Yale University, ashley.carter@yale.edu	Tosha Comendant, University of California-Santa Cruz, comendant@biology.ucsc.edu
Maryann Burbidge, University of Toronto, Royal Ontario Museum, maryann.burbidge@utoronto.ca	Christina Caruso, Duke University, carusoc@duke.edu	Marty Condon, Cornell College, mcondon@cornellcollege.edu
Frank Burbrink, Louisiana State University, fburbri@lsu.edu	Andrea Case University of Pittsburgh, acase@pitt.edu	Chris Conroy, University of California, ondatra@socrates.berkeley.edu
Christina Burch, University of Idaho, cburch@uidaho.edu	Insa Cassen, Free University of Brussels, cassen@ulb.ac.be	John Cooley, University of Connecticut, magicicada@att.net
Reinhard Bürger, University of Vienna, reinhard.buerger@univie.ac.at	Carey Cassidy, Washington State University	Vaughn Cooper, University of Michigan, vcooper@umich.edu

Participant list, continued

- Vacher Corinne, ISEM, "Génétique et Environnement", cvacher@isem.univ-montp2.fr
- Jennifer Cork, North Carolina State University, jmreinin@unity.ncsu.edu
- Laura Corley, Washington State University, corley@wsu.edu
- James Cotton, University of Glasgow, j.cotton@udcf.gla.ac.uk
- Joel Cracraft, American Museum of Natural History, jlc@amnh.org
- Kathleen Craft, University of Illinois-Chicago, kcraft1@uic.edu
- Timothy Craig, University of Minnesota Duluth, tcraig@d.umn.edu
- Andrew Crawford, Smithsonian Tropical Research Institute, crawfordaj@naos.si.edu
- Douglas Creer, Washington University, dcreer@genetics.wustl.edu
- Sarah Crews, San Diego State University, screws@aznet.net
- Quentin Cronk, University of Edinburgh, q.cronk@rbge.org.uk
- Chuck Crumly, Academic Press - Elsevier Science, c.crumly@elsevier.com
- Jennifer Cruse-Sanders, University of Georgia, cruse@dogwood.botany.uga.edu
- Michael Cummings, Marine Biological Laboratory, mike@bluefish.mbl.edu
- Clifford Cunningham, Duke University, cliff@duke.edu
- Asher Cutter, University of Arizona, acutter@u.arizona.edu
- Elizabeth Dahlhoff, Santa Clara University, edahlhoff@scu.edu
- Marymegan Daly, University of Kansas, dalym@ku.edu
- Hattie Dambroski, University of Notre Dame, Dambroski.1@nd.edu
- Anne Danielson-Francois, University of Arizona, danielsn@ku.edu
- Kevin de Queiroz, Smithsonian Institution, dequeiroz.kevin@nmnh.si.edu
- Matthew Dean, University of Iowa-Iowa City, matthew-d-dean@uiowa.edu
- Andrew Deans, University of Illinois Urbana-Champaign, ardeans@aol.com
- Ronald DeBry, University of Cincinnati, ron.debry@uc.edu
- Lewis Deitz, North Carolina State University, lewis_deitz@ncsu.edu
- Veronique Delesalle, Gettysburg College, delesall@gettysburg.edu
- Lynda Delph, Indiana University, ldelph@bio.indiana.edu
- Jeff Demuth, Indiana University, jpdemuth@indiana.edu
- Erin Denney, Salisbury University, eld7517@students.salisbury.edu
- Elissa Derrickson, Loyola College, ederrickson@loyola.edu
- Maurice Devaraj, mauricesdevaraj@yahoo.com
- Thomas Devitt, Louisiana State University, tdevit1@lsu.edu
- Donna Devlin, University of Louisiana-Lafayette, donna_devlin@usgs.gov
- Jeremy deWaard, University of Guelph, jdewaard@uoguelph.ca
- J. Andrew DeWoody, Purdue University, dewoody@purdue.edu
- M. Rita Di, Cadia San Francisco State University
- Carl Dick, Texas Tech University, cdick@ttu.edu
- Walter Diehl, Mississippi State University, wjdiehl@ra.msstate.edu
- Chris Dietrich, Illinois Natural History Survey, chdietri@uiuc.edu
- Caroline Dingle, San Francisco State University, cdingle@sfsu.edu
- Hugh Dingle, University of California-Davis, rdhdingle@ucdavis.edu
- Duy Dinh, University of Houston, ddinh2@bayou.uh.edu
- Katharina Dittmar de la Cruz, Brigham Young University, katharinad@hotmail.com
- Sheri Dixon, Louisiana State University, sdixon1@lsu.edu
- Jefferey Dole, University of Tennessee, jdole@utk.edu
- Sam Donovan, Beloit College, donovans@beloit
- Erik Dopman, Cornell University, ebd5@cornell.edu
- Marcel Dorken, University of Toronto, dorken@botany.utoronto.ca
- Andrew Doust, University of Missouri-St Louis, adoust@umsi.edu
- Douglas Downie, University of California-Davis, dadownie@ucdavis.edu
- Stephen Downie, University of Illinois Urbana-Champaign, sdownie@life.uiuc.edu
- Amy Driskell, University of California-Davis, acdriskell@ucdavis.edu
- Jenny Drnevich, University of Illinois Urbana-Champaign, drnevich@uiuc.edu
- Kristen Drumm, University of Arizona, mawpaw15@yahoo.com
- Lindsey Dubb, University of Washington, ldubb@u.washington.edu
- Jeff Dudycha, Indiana University, jdudycha@bio.indiana.edu
- Meghan Duffy, Michigan State University, duffymeg@msu.edu
- Peter Dunn, University of Wisconsin-Milwaukee, pdunn@uwm.edu
- David Duvernell, Southern Illinois University-Edwardsville, dduvern@siue.edu
- Ian Dworkin, University of Toronto, idworkin@zoo.utoronto.ca
- Mark Dybdahl, Washington State University, dybdahl@wsu.edu
- Kelly Dyer, University of Rochester, dyer@mail.rochester.edu
- Rodney Dyer, University of Missouri-Saint Louis, rodney@jinx.umsl.edu
- Brian Eads, University of Wisconsin, bdeads@facstaff.wisc.edu
- Mercedes Ebbert, Miami University, ebbertma@muohio.edu
- Suzanne Edmands, University of Southern California, sedmands@usc.edu
- Adrienne Edwards, Illinois Natural History Survey, aedwards@inhs.uiuc.edu
- Scott Edwards, University of Washington, sedwards@u.washington.edu
- Lori Eggert, Smithsonian Institution, lori_eggert@hotmail.com
- Sherry Ellberg, University of Missouri-Columbia, srehcd@mizzou.edu
- Kathryn Elmer, Queen's University, elmerk@biology.queensu.ca
- Anna E. Elz, University of British Columbia, elz@zoology.ubc.ca
- Tag Engstrom, University of California, tnengstrom@ucdavis.edu
- Bryan Epperson, Michigan State University, epperson@msu.edu
- William Etges, University of Arkansas, wetges@uark.edu

Ben Evans, Columbia University, bje5@columbia.edu	Laurence Frabotta, Texas A&M University, frabotta@bio.tamu.edu	Leslie Goertzen, Indiana University, goertzen@indiana.edu
Jay Evans, USDA-ARS Bee Research Lab, evansj@ba.ars.usda.gov	Steven Freedberg, Indiana University, sfreebe@indiana.edu	Nick Goldman, University of Cambridge, n.goldman@zoo.cam.ac.uk
Daphne Fairbairn, University of California, daphne.fairbairn@ucr.edu	Elizabeth Friar, Rancho Santa Ana Botanic Garden, elizabeth.friar@cgu.edu	Robert Goldman, University of Houston, goldman_rp@yahoo.com
Daniel Faith, Australian Museum, danf@austmus.gov.au	Ann Fritz, Eastern Illinois University	Yi Gong, Bowling Green State University
Sylvia Fallon, University of Missouri-St. Louis, sylviafallon@hotmail.com	Gary Fritz, Eastern Illinois University, cfgnf@eiu.edu	Jeffrey Good, University of Idaho, good9579@uidaho.edu
Angel Fasolo, Cleveland State University, a.fasolo@csuohio.edu	Adam Fry, Brown University, Adam_Fry@Brown.edu	Carol Goodwillie, East Carolina University, goodwillie@mail.ecu.edu
Daphne Fautin, University of Kansas, fautin@ku.edu	Catherine Fry, University of Maryland, cfry@wam.umd.edu	Root Gorelick, Arizona State University, cycad@asu.edu
Shannon Fearnley, Sonoma State University, slfearley@yahoo.com	James Fry, University of Rochester, jfry@mail.rochester.edu	Erica Goss, University of Chicago, emgoss@uchicago.edu
Jeffrey Feder, University of Notre Dame, Feder.2@nd.edu	Brent Fuller, University of California Irvine, bfuller@uci.edu	Leigh Gostowski, Vanderbilt University, leigh.gostowski@vanderbilt.edu
Ken Fedorka, University of South Carolina, fedorka@sc.edu	Vicki A. Funk, Smithsonian Institution, funkv@nmnh.si.edu	Fred Gould, North Carolina State University, fred_gould@ncsu.edu
Michael Feldgarden, SUNY -Stony Brook, mfeld@life.bio.sunysb.edu	Carrie Fyler, San Diego State University, cfyler@sciences.sdsu.edu	Jaime Grace, University of Maryland, jaimegrace@hotmail.com
Joseph Felsenstein, University of Washington, joe@genetics.washington.edu	Austen Ganley, Duke University, austen@duke.edu	Russell Gray, University of Auckland, rd.gray@auckland.ac.nz
Jennifer Fessler, University of Illinois-Chicago, jfessler@fmnh.org	Holly Ganz, University of California-Davis, hhganz@ucdavis.edu	Tom Gregg, Miami University, greggtg@muohio.edu
James Fetzner, Carnegie Museum of Natural History, fetznerj@carnegiemuseums.org	Andrea Gargas, University of Wisconsin- Madison, agargas@facstaff.wisc.edu	Ann Grens, Indiana University South Bend, agrens@iusb.edu
Ben Fitzpatrick, University of California- Davis, benfitz@ucdavis.edu	Aaron Gassmann, SUNY-Stony Brook, gassmann@life.bio.sunysb.edu	Cortland Griswold, University of British Columbia, griswold@zoology.ubc.ca
Rebecca Fleischman, Illinois State University, rrfleis@ilstu.edu	Gregory Gelembiuk, University of Wisconsin- Madison, gelembiuk@entomology.wisc.edu	Briana Gross, Indiana University, brgross@indiana.edu
Jonathan Flowers, University of California-San Diego, jmflower@ucsd.edu	Diane Genereux, Emory University, dgenere@emory.edu	Zhenglong Gu, University of Chicago, zgu@midway.uchicago.edu
Matthias Foellmer, Concordia University, foellmer@vax2.concordia.ca	Nicole Gerardo, University of Texas, nggerardo@mail.utexas.edu	Dongming Guan, Illinois State University, dguan@ilstu.edu
Dave Foltz, Louisiana State University, dfoltz@lsu.edu	Laura Geyer, Harvard University, lgeyer@oeb.harvard.edu	Kata Gurski, Miami University, gurskikc@muohio.edu
Frank Fontanella, University of Alabama, fonta001@bama.ua.edu	H. Lisle Gibbs, Ohio State University, gibbs.128@osu.edu	Carla Gutierrez-Rodriguez, SUNY-Buffalo, cg8@buffalo.edu
Tom Ford, University of Glasgow, 0104007f@student.gla.ac.uk	Michael Gilchrist, University of New Mexico, mikeg@lanl.gov	Elizabeth Hadly, Stanford University, hadly@stanford.edu
Kevin Foster, Rice University, krfoster@rice.edu	Matthew Ginzel, University of Illinois Urbana- Champaign, ginzel@uiuc.edu	Daniel Hahn, University of Arizona, dhahn@u.arizona.edu
Merina Foster, Illinois State University, merina_f@hotmail.com	Rosanna Giordano, University of Vermont, rgiordan@zoo.uvm.edu	Matthew Hahn, Duke University, mwh3@duke.edu
Peter Foster, The Natural History Museum, petf@nhm.ac.uk	Matt Gitzendanner, University of Florida, magitz@ufl.edu	Robert Haney, Brown University, Robert_Haney@brown.edu
Charles Fox, University of Kentucky, cfox@uky.edu	Richard Glor, Washington University, glor@biology.wustl.edu	Lawrence Hanks, University of Illinois Urbana-Champaign, hanks@life.uiuc.edu
Jennifer Fox, Cornell University, jaf38@cornell.edu	Charles Godfray, Centre for Population Biology, c.godfray@ic.ac.uk	Kathryn Hanley, LID/NIAID/NIH, khanley@niaid.nih.gov

Participant list, continued

Thomas F. Hansen, Florida State University, thomas.hansen@bio.fsu.edu	Scott Hevner, Bowling Green State University, hevners@bgnet.bgsu.edu	Kimberly Hunter, Salisbury University, kxhunter@salisbury.edu
Christopher Harbison, University of Utah, harbison@biology.utah.edu	John Heywood, Southwest Missouri State University, johnheywood@smsu.edu	Richard Hunter, Salisbury University, rbhunter@salisbury.edu
Michael Hardman, Illinois Natural History Survey, hardman1@students.uiuc.edu	Sara Hicks, Rice University, shicks@rice.edu	Jennifer Hurley O'Hara, Cornell College, jhurleyohara@cornellcollege.edu
Matthew Hare, University of Maryland, matt.hare@umail.umd.edu	Lena Hileman, Harvard University, lhileman@oeb.harvard.edu	Luis Hurtado, Monterey Bay Aquarium Research Institute, lhurtado@mbari.org
George Harper, University of North Carolina Chapel Hill, gharper@email.unc.edu	Kathy Hill, University of Connecticut, cicada90@hotmail.com	Brian Husband, University of Guelph, bhusband@uoguelph.ca
Bettina Harr, University of Chicago, harr@uchicago.edu	David Hillis, University of Texas, dhillis@mail.utexas.edu	Delbert Hutchison, Whitman College, hutchidw@whitman.edu
Robert Harris, Cornell University, rdh24@cornell.edu	Michael Hochberg, University of Montpellier II, hochberg@isem.univ-montp2.fr	Boris Igic, University of California-San Diego
Scott Harrison, University of Southern California, jharrison@usc.edu	Hopi Hoekstra, University of Arizona, hopi@u.arizona.edu	Colleen Ingram, Texas A&M University, ingram@tamu.edu
Chester Hartsough, San Francisco State University, chartso@sfsu.edu	Susan Hoffman, Miami University, hoffmasm@muohio.edu	Naheerah Irving, Kean University, haleehan@aol.com
Martin Hauser, University of Illinois Urbana- Champaign, hauser1@students.uiuc.edu	Mark Holder, University of Connecticut, mholder@uconn.edu	Chris Ivey, University of Virginia, cti3c@virginia.edu
David Hawthorne, University of Maryland, DH176@UMAIL.UMD.EDU	Jill Holliday, Florida State University, holliday@bio.fsu.edu	Tracie Ivy, Illinois State University, tmivy@ilstu.edu
Ralph Haygood, University of California- Davis, rhaygood@ucdavis.edu	Hope Hollocher, University of Notre Dame, Hope.Hollocher.1@nd.edu	Frans Jacobs, University of Tennessee, frans@tiem.utk.edu
Daniel Heath, University of Windsor, dheath@uwindsor.ca	Alisha Holloway, University of Texas-Austin, aholloway@mail.utexas.edu	Molly Jahn, Cornell University, mmj9@cornell.edu
Tracy Heath, University of Texas-Austin, tracyh@mail.utexas.edu	Karsten Holmquist, University of Wisconsin- Milwaukee, Iguazu@uwm.edu	Avis James, University of Iowa, avis- james@uiowa.edu
Jeffrey Heilveil, University of Illinois Urbana- Champaign, heilveil@uiuc.edu	Kevin Holston, University of Illinois Urbana- Champaign, fihotra@hotmail.com	Fred Janzen, Iowa State University, fjanzen@iastate.edu
Rick Heineman, University of Texas-Austin, lartloril@aol.com	Paul Hotchkin, The University of Texas-El Paso, photchkin@hotmail.com	Andrew Jarosz, Michigan State University, amjarosz@msu.edu
D. Megan Helfgott University of Illinois Chicago, dione_megan_helfgott@hotmail.com	Anne Houde, Lake Forest College, houde@lfc.edu	Mezey Jason, Florida State University
Loren Henagan, Louisiana State University, lhenag1@lsu.edu	David Houle, Florida State University, dhoule@bio.fsu.edu	Conner Jeff, Michigan State University, connerj@msu.edu
Sher Hendrickson, University of Wisconsin, sher@ravel.zoology.wisc.edu	R. Stephen Howard, Middle Tennessee State University, rshoward@mtsu.edu	Michael Jensen-Seaman, Medical College of Wisconsin, mseaman@mcw.edu
Christine Henzler, Duke University, cmh20@duke.edu	Tomas Hrbek, University of Konstanz, tomas.hrbek@uni-konstanz.de	Elizabeth Jockusch, University of Connecticut, jockusch@sp.uconn.edu
Joe Hereford, Florida State University, hereford@bio.fsu.edu	Katharina Huber, Swedish University of Agricultural Sciences, huber@ekocent.ekon.slu.se	Sachs Joel, University of Texas-Austin, jlsachs@mail.utexas.edu
Christopher Herlihy, Queen's University, herlihy@biology.queensu.ca	Cendrine Hudelot, University of Manchester, cendrine.hudelot@man.ac.uk	April Johansen, Dalhousie University, ajohanse@is2.dal.ca
Joachim Hermisson, Yale University, joachim.hermisson@yale.edu	Austin Hughes, University of South Carolina, austin@biol.sc.edu	Glenn Johns, Stanford University, gjohns@stanford.edu
Erika Hersch, University of Oregon, e hersh@darkwing.uoregon.edu	Kim Hughes, University of Illinois Urbana- Champaign, kahughes@life.uiuc.edu	Jeff A. Johnson, University of Wisconsin- Milwaukee, jefferyj@uwm.edu
M. Shane Heschel, University of Connecticut, sheschel1@cs.com	Darrin Hulsey, University of California-Davis, cdhulsey@ucdavis.edu	Kevin Johnson, University of Illinois Urbana- Champaign, kjohnson@inhs.uiuc.edu
	Greta Hume, Cornell University, glh5@cornell.edu	Norman Johnson, University of Massachusetts-Amherst, njohnson@ent.umass.edu

Stacy Jorgensen, Ohio University, jorgenss@ohio.edu	Jason Kolbe, Washington University, kolbe@biology.wustl.edu	Karen Lawrence, Southeast Missouri State University, ez03stu@semo.edu
Moltu Joseph, Medical College of Wisconsin, moltu.joseph@mu.edu	Scott Kolpak, University of Oregon, scottae@darkwing.uoregon.edu	Amy Lawton-Rauh, North Carolina State University, allawton@unity.ncsu.edu
Sarah Joseph, University of Texas at Austin, sjoseph@mail.utexas.edu	Jason Koontz, Illinois Natural History Survey, jkoontz@inhs.uiuc.edu	Nicole Leahy, Iowa State University, nleahy@iastate.edu
Manda Clair, Jost Harvard University, mjost@oeb.harvard.edu	Daria Koscinski, Queen's University, daria@biology.queensu.ca	Larry Leamy, University of North Carolina- Charlotte, lpleamy@email.uncc.edu
Winfried Just, Ohio University, just@math.ohio.edu	Kenneth Kozak, Washington University, kozak@biology.wustl.edu	Roger Lederer, California State University- Chico, rlederer@csuchico.edu
Nolan Kane, Indiana University, nkane@indiana.edu	Carey Krajewski, Southern Illinois University, careyk@siu.edu	Carol Eunmi, Lee University of Wisconsin- Madison, carollee@facstaff.wisc.edu
Praveen Karanth, State University of New York, karanthp@hotmail.com	Robert Krebs, Cleveland State University, r.krebs@csuohio.edu	Jeff Leips, University of Maryland-Baltimore County, leips@umbc.edu
Timothy Karr, University of Chicago, tkarr@midway.uchicago.edu	Greg Krukonis, Wesleyan University, greg@krukonis.com	Jason Leonard, University of Tennessee- Knoxville, jleonar@utk.edu
Jeffrey Karron, University of Wisconsin- Milwaukee, karron@uwm.edu	Ulrich Kuch, Johann Wolfgang Goethe University, U.Kuch@em.uni-frankfurt.de	Harilaos Lessios, Smithsonian Tropical Research Institute, Lessiosh@naos.si.edu
Vaishali Katju, Indiana University, vkatju@bio.indiana.edu	Josephine Kurdziel, University of Arizona, kurdziel@u.arizona.edu	Geoffrey Levin, Illinois Natural History Survey, levin1@uiuc.edu
Charles Kealy, University of Wisconsin- Whitewater	Joanne Labate, Cornell University USDA-ARS, jl265@cornell.edu	Paul Lewis, University of Connecticut, paul.lewis@uconn.edu
Maureen Kearney, The Field Museum, mkearney@fieldmuseum.org	Elizabeth Lacey, University of North Carolina, eplacey@uncg.edu	Solange Lewis, University of Cincinnati, lewissss@email.uc.edu
Gwen Keller, University of Georgia, Kellerg@naos.si.edu	Emerson Lacey, University of Illinois Urbana- Champaign	Christian Lexer, Indiana University, clexer@indiana.edu
Elizabeth Kellogg, University of Missouri-St. Louis, tkellogg@umsl.edu	David Lahti, University of Michigan, lahtid@umich.edu	Changbao Li, Michigan State University, sang@msu.edu
John Kelly, University of Kansas, jkk@eagle.cc.ukans.edu	David Lampe, Duquesne University, lampe@duq.edu	Jessica Light, Louisiana State University, jligh2@lsu.edu
Martyn Kennedy, University of Glasgow, martyn.kennedy@bio.gla.ac.uk	Candice Landry, University of Houston, candice@houston.rr.com	Alberto Lindner, Duke University, al18@duke.edu
Tina Kesler, Florida State University, tina_kesler@yahoo.com	Christian R. Landry, Harvard University, clandry@oeb.harvard.edu	Kevin Livingstone, Indiana University, klivings@bio.indiana.edu
Amber Keyser, University of Georgia, keyser@arches.uga.edu	Gary Langham, Cornell University, GML4@cornell.edu	Peter Lockhart, Massey University, p.j.lockhart@massey.ac.nz
Cheol-Min Kim, Ohio State University, kim.296@osu.edu	John LaPolla, Rutgers University, lapolla@eden.rutgers.edu	Sabine Loew, Illinois State University, ssloew@ilstu.edu
Junhyong Kim, Yale University, junhyong.kim@yale.edu	Thomas Lardaro, University of Connecticut, Thomas.Lardaro@Conne.edu	Lúcia Lohmann, University of Missouri- St.Louis, lohmann@mobot.org
Sarah Kingan, Brown University, Sarah_Kingan@brown.edu	Eric Larsen, University of Chicago, eclarsen@midway.uchicago.edu	Steve Lougheed, Queen's University, lougheed@biology.queensu.ca
Michael Kinney, Rancho Santa Ana Botanic Garden, Michael.Kinney@cgu.edu	Brendon Larson, University of California- Santa Barbara, blarson1@hotmail.com	Irby Lovette, Cornell University, ijl2@cornell.edu
Karl Kjer, Rutgers-Cook College, kjer@aesop.rutgers.edu	Hans Larsson, Yale University, hans.larsson@yale.edu	Katrina Lustofin, University of Illinois Urbana- Champaign, lustofin@uiuc.edu
Shelby Kleweis, University of Missouri-St. Louis, shelbs_30@yahoo.com	Robert Latta, Dalhousie University, Robert.Latta@Dal.ca	Francois Lutzoni, Duke University, flutzoni@duke.edu
Richard Kliman, Kean University, rkliman@kean.edu	Cecelia Laurie, University of Alabama, claurie@bama.ua.edu	Michael Lynch, Indiana University, mlynch@bio.indiana.edu
Frances Knapczyk, Michigan State University, knapczyk@msu.edu	Richard Lawler, Yale University, richard.lawler@yale.edu	Sheila Lyons-Sobaski, University of Illinois Urbana-Champaign, s-lyons6@uiuc.edu

Participant list, continued

- Katrina Lythgoe, Edinburgh University, katrina.lythgoe@ed.ac.uk
- Barbara Mable, University of Guelph, bmable@uoguelph.ca
- Christopher Mah, University of Illinois Urbana-Champaign, mah@uiuc.edu
- Noriko Makita, Illinois State University, nmakita@ilstu.edu
- James Mallet, University College London, J.MALLET@UCL.AC.UK
- Catherine Malone, Purdue University, catherine@fnr.purdue.edu
- Costas Mannouris, Illinois State University, cmannou@ilstu.edu
- Jonathan Marcot, University of Chicago, jmarcot@midway.uchicago.edu
- Patrick Mardulyn, Free University of Brussels, pmarduly@ulb.ac.be
- Catherine Marler, University of Wisconsin, camarler@facstaff.wisc.edu
- Deborah Marr, Indiana University-South Bend, dmarr@iusb.edu
- David Marshall, University of Connecticut, david_marshall@uconn.edu
- Jeremy Marshall, The University of Texas-Arlington, jmarshall@uta.edu
- Noland Martin, Duke University, noland.martin@duke.edu
- Emilia Martins, Indiana University, emartins@indiana.edu
- Joanna Masel, Stanford University, masel@charles.stanford.edu
- Roberta Mason-Gamer, University of Illinois-Chicago, robie@uic.edu
- Tim Massingham, University of Cambridge (UK)Museum of Zoology, tlm21@cam.ac.uk
- Susan Mastas, San Francisco State University, smasta@sfsu.edu
- Mariana Mateos, Monterey Bay Aquarium Research Institute, mmateos@mbari.org
- Kristie Mather, University of California-Berkeley, kristie@allele5.biol.berkeley.edu
- Sarah Mathews, University of Missouri-Columbia, matthewss@missouri.edu
- Derrick Mathias, University of Oregon, dmathias@darkwing.uoregon.edu
- Michelle Mattern, University of Toronto, mmattern@zoo.utoronto.ca
- Conrad Matthee, Stellenbosch University, cam@sun.ac.za
- Luciano Matzkin, SUNY-Stony Brook, lmatzkin@life.bio.sunysb.edu
- Heather Maughan, University of Arizona, hmaughan@u.arizona.edu
- Rodney Mauricio, University of Georgia, mauricio@uga.edu
- Gemma May, University of Wisconsin-Madison, gemay@students.wisc.edu
- Susan Mazer, University of California-Santa Barbara, mazer@lifesci.ucsb.edu
- Kim McBreen, University of Missouri, kmcbreen@yahoo.com
- Robert McBride, University of Houston, robmcbride@yahoo.com
- Michael McCartney, University of North Carolina-Wilmington, mccartneym@uncwil.edu
- David McClellan, Brigham Young University, david_mcclellan@byu.edu
- Stuart McDaniel, Duke University, stumcd@duke.edu
- John H. McDonald, University of Delaware, mcdonald@udel.edu
- Cynthia McDonnell, University of Illinois Urbana-Champaign, cmcdonne@uiuc.edu
- Joel McGlothlin, Indiana University-Bloomington, jmcgloth@indiana.edu
- John McKay, Center for Population Biology, jkmckay@ucdavis.edu
- Jeffrey McKinnon, University of Wisconsin-Whitewater, mckinnoj@mail.uww.edu
- Tanya McKittrick, University of Oregon, tmckitri@gladstone.uoregon.edu
- Mark McKone, Carleton College, mmckone@carleton.edu
- Deborah McLennan, University of Toronto, mclennan@zoo.utoronto.ca
- Thomas Meagher, University of St Andrews, trm3@st-and.ac.uk
- Lisa Meffert, Rice University, lmeffert@rice.edu
- Colin Meiklejohn, Harvard University, cmeiklejohn@oeb.harvard.edu
- Tamra Mendelson, University of Maryland, tamram@wam.umd.edu
- Thomas Merritt, SUNY-Stony Brook, merritt@life.bio.sunysb.edu
- Mark Metz, University of Illinois Urbana-Champaign, mmetz@life.uiuc.edu
- Helen Michaels, Bowling Green State University, hmichae@bgnet.bgsu.edu
- Alice Michel-Salzat, University of Illinois Urbana-Champaign, asalzat@life.uiuc.edu
- Alexander Milkheyev, Florida State University, sasha@bio.fsu.edu
- Michel Milinkovitch, Unit of Evolutionary Genetics, mcmilink@ulb.ac.be
- Jill Miller, University of Colorado, jsmiller@spot.colorado.edu
- Joe Miller, University of Iowa, jt-miller@uiowa.edu
- Marcelo Miranda, Memorial University of Newfoundland, t97mbm@mun.ca
- Jeff Mitton, University of Colorado, mitton@colorado.edu
- David Moeller, Cornell University, dam24@cornell.edu
- David Mooney, University of Illinois Urbana-Champaign, dmooney@life.uiuc.edu
- Francisco Moore, University of Akron, moore@uakron.edu
- Nancy Moran, University of Arizona, nmoran@u.arizona.edu
- Mariana Morando, Brigham Young University-Connecticut, mariana_morando@hotmail.com
- Martin Morgan, Washington State University, mmorgan@wsu.edu
- Ken Moriuchi, Florida State University, moriuchi@bio.fsu.edu
- Carrie Morjan, Iowa State University, milne@iastate.edu
- Jennifer Morrill, University of Guelph, jmorrill@uoguelph.ca
- Molly Morris, Ohio University, morrism@oak.cats.ohio.edu
- Kevin Moulton, North Carolina State University, kevin_moulton@ncsu.edu
- Vincent Moulton, Linnaeus Center for Bioinformatics, vince@dirac.fmi.mh.se
- Jeffrey Mower, Indiana University, jpmower@indiana.edu
- Leonie Moyle, Duke University, lcm6@duke.edu
- Rachel Mueller, University of California-Berkeley, rachel@socrates.berkeley.edu
- Christina Muirhead, Harvard University, muirhead@oeb.harvard.edu
- Sean Mullen, Cornell University, spm23@cornell.edu

Debra Murray, Oregon State University, murrayde@bcc.orst.edu

Norris Muth, University of Tennessee, nmuth@utk.edu

Eric Myers, Michigan State University, myerser1@msu.edu

Takuya Nakazato, Indiana University, tnakazat@indiana.edu

John Nason, Iowa State University, jnason@iastate.edu

Maurine Neiman, Indiana University, mneiman@bio.indiana.edu

Karin Nelson, University of Illinois Urbana-Champaign, knnelson@uiuc.edu

Kristi Niehaus, Virginia Polytechnic Institute and State University, kniehaus@vt.edu

Mark Nielsen, University of Dayton, mark.nielsen@notes.udayton.edu

Mohamed Noor, Louisiana State University, mnoor@lsu.edu

Andrew Norris, California State University-Northridge, agn28216@csun.edu

Patrik Nosil, Simon Fraser University, pnosila@sfu.ca

James Novak, SREL, novak@srel.edu

John Novembre, University of California-Berkeley, novembre@socrates.berkeley.edu

Leonard Nunney, University of California-Riverside, nunney@citrus.ucr.edu

Kerry O'Donnell, USDA-ARS-NCAUR, kodonnell@sunca.ncaur.usda.gov

Patrick O'Grady, American Museum of Natural History, ogrady@amnh.org

Sean O'Keefe, Morehead State University, s.okeefe@morehead-st.edu

Shyrl O'Steen, Bates College, sosteen@bates.edu

Christopher Oakley, Florida State University, coakley@bio.fsu.edu

Todd Oakley, University of Chicago, tho@uchicago.edu

Karen Ober, University of Connecticut, kober@uconnvm.uconn.edu

Virginia (Gini) Oberholzer, Vandergon California State University-Northridge, virginia.vandergon@csun.edu

Heath Ogden, Brigham Young University, heath_ogden@byu.edu

Kenneth Olsen, North Carolina State University, kmolsen@unity.ncsu.edu

Alex Olvido, University of Nebraska-Lincoln, olvido@unl.edu

Kevin Omland, University of Maryland Baltimore County, omland@umbc.edu

Han Chuan Ong, Indiana University, hong@bio.indiana.edu

Guillermo Orti, University of Nebraska, gorti1@unl.edu

Daniel Ortiz-Barrientos, Louisiana State University, dortiz1@lsu.edu

Elizabeth Ostrowski, Michigan State University, ostrow24@msu.edu

Adriana Otero, University of Georgia, aotero@dogwood.botany.uga.edu

Diana Outlaw, University of Nevada Las Vegas, dianaoutlaw@earthlink.net

Aditi Pai, State University of New York-Buffalo, aditipai@acsu.buffalo.edu

Susanne Paland, Indiana University, spaland@bio.indiana.edu

Eric Palkovacs, Yale University, eric.palkovacs@yale.edu

Michael Palmer, Brown University, Michael_R_Palmer@Brown.edu

Michael Palopoli, Bowdoin College mpalopol@bowdoin.edu

Steve Palumbi, Harvard University, spalumbi@oeb.harvard.edu

Tami Panhuis, University of California-Riverside, panhuist@citrus.ucr.edu

Annie Paradis, University of Nebraska, annieparadis@yahoo.com

Christine Parent, Simon Fraser University, cparent@sfu.ca

Kevin Parsons, University of Guelph, parsons@uoguelph.ca

Harland Patch, University of Illinois, patch@uiuc.edu

Tara Paton, University of Toronto, tara.paton@utoronto.ca

Rebecca Patterson, University of Illinois Urbana-Champaign

Windi Paulson, University of Wisconsin-Whitewater, wl paulson@hotmail.com

Bret Payseur, University of Arizona, payseur@email.arizona.edu

Devon Pearse, Brigham Young University, dep36@email.byu.edu

Anya Penly, University of Missouri-St. Louis

David Penny, Massey University, d.penny@massey.ac.nz

Kim Pepin, University of Idaho, pepi8744@uidaho.edu

Diana Percy, CSIRO Entomology, diana.percy@csiro.au

Kathryn Perez, University of Alabama, perez005@bama.ua.edu

John Perkins III, Mississippi State University, jdp13@msstate.edu

Bill Perry, Illinois State University, wlerry

Rebecca Petersen, University of Illinois Urbana-Champaign, rpeterse@uiuc.edu

Brett Peterson, University of Maryland, kast365@cs.com

Marcio Pie, Boston University, pie@bu.edu

Massimo Pigliucci, University of Tennessee, pigliucci@utk.edu

Sara Pinter, Salisbury University, icymyth@aol.com

Helen Piontovska, Pennsylvania State University, oxp108@psu.edu

J. Chris Pires, University of Wisconsin-Madison, jcpires@facstaff.wisc.edu

Alexander Platt, Harvard University, aplatt@oeb.harvard.edu

Ondrej Podlaha, University of Michigan-Ann Arbor, opodlaha@umich.edu

Steven Poe, University of California-Berkeley, stevepoe@uclink.berkeley.edu

David Pollock, Louisiana State University, dpollock@lsu.edu

Adam Porter, University of Massachusetts-Amherst, aporter@ent.umass.edu

Nagaraj Guru, Prasad Jawaharlal Nehru Centre for Adv Scientific Res, prasad@jncasr.ac.in

Daven Presgraves, University of Rochester, dvnp@mail.rochester.edu

Nadia Prigoda, University of Guelph, nprigoda@uoguelph.ca

Daniel Promislow, University of Georgia, promislow@uga.edu

Stephen Proulx, University of Oregon, proulx@proulxresearch.org

Richard Prum, University of Kansas, prum@ku.edu

Kathleen Pryer, Duke University, pryer@duke.edu

Shelley Pryor, Southern Illinois University-Edwardsville, Shelleypryor@charter.net

Participant list, continued

Mike Quance, University of Houston, mquance@uh.edu	Scott Rifkin, Yale University, scott.rifkin@yale.edu	Howard Rundle, Simon Fraser University, hrundle@sfu.ca
David Queller, Rice University, queller@rice.edu	Cynthia Riginos, Duke University	Olav Rüppell, University of California-Davis, oruepell@ucdavis.edu
Gregory Ragland, University of North Carolina-Chapel Hill, gragland@email.unc.edu	Leslie Rissler, University of California- Berkeley, rissler@uclink.berkeley.edu	Jacob Russell, University of Arizona, jarussel@u.arizona.edu
Karlene M. M. Ramsdell, University of Illinois Urbana-Champaign, ramsdell@life.uiuc.edu	Alan Robert, Washington University, temple_a@biology.wustl.edu	Michael Russello, Columbia University, russello@amnh.org
Rebecca Randell, Indiana University, rrandell@bio.indiana.edu	Robert Page, University of California-Davis, repage@ucdavis.edu	Amanda Rychel, San Diego State University, rychel@rohan.sdsu.edu
Nathan Rank, Sonoma State University, rank@sonoma.edu	Trina Roberts, University of Chicago, terobert@uchicago.edu	Tim Sackton, Brown University, tsackton@brown.edu
Linda Raubeson, Central Washington University, raubeson@cwu.edu	Hugh Robertson, University of Illinois Urbana-Champaign, hughrobe@uiuc.edu	Cynthia Sagers, University of Arkansas, csagers@uark.edu
Jason Rauscher, Cornell University, jtr24@cornell.edu	Douglas Robinson, North Carolina State University, dmrobins@stat.ncsu.edu	Ariana Sainz, University of Notre Dame, asainz@nd.edu
Cassandra Rauser, University of California- Irvine, crauser@uci.edu	Barrie Robison, Indiana University, brobison@bio.indiana.edu	Nicolas Salamin, University of Dublin-Trinity College, salaminn@tcd.ie
Richard Ree, University of California-Davis, rree@ucdavis.edu	Helen Rodd, University of Toronto, hrodd@zoo.utoronto.ca	Otto Sally, University of British Columbia, otto@zoology.ubc.ca
David Reed, University of Utah, reed@biology.utah.edu	James Rodman, National Science Foundation, jrodman@nsf.gov	Alice Salzat , Juan A. Sanchez, University at Buffalo (SUNY), js15@buffalo.edu
Laura Reed, University of Arizona, laurak@u.arizona.edu	Sandra Rodriguez-Zas, University of Illinois Urbana-Champaign, rodrgzzs@uiuc.edu	Tao Sang, Michigan State University, sang@msu.edu
David Remington, North Carolina State University, dreming@unity.ncsu.edu	Derek Roff, University of California-Riverside, derek.roff@ucr.edu	Oris Sanjur, Smithsonian Tropical Research Institute, sanjuro@naos.si.edu
Susanne Renner, University of Missouri-St. Louis, renner@umsl.edu	Sean Rogers, Laval University, sean.rogers@giroq.ulaval.ca	Maria Santiago, Kean University, msanti12@hotmail.com
Noah Reynolds, University of Illinois- Springfield, nreynolds@family-net.net	F.James Rohlf, SUNY- Stony Brook, rohlf@life.bio.sunysb.edu	Francesco Santini, University of Toronto, fsantini@zoo.utoronto.ca
Rose Reynolds, University of Illinois Urbana- Champaign, rmreynol@uiuc.edu	Darin Rokyta, University of Idaho, rokya8074@uidaho.edu	Matthew Saunders, University of Arizona, msaunder@u.arizona.edu
David Reznick, University of California, david.reznick@ucr.edu	Angela Roles, Michigan State University, rolesan1@msu.edu	Riitta Savolainen, University of Helsinki, riitta.savolainen@helsinki.fi
Jennifer Rhode, Portland State University, jmrhode@smcm.edu	Colin Rose, University of Maryland, crose@wam.umd.edu	Gerda Saxer, University of Houston, gsaxer@uh.edu
Aaron Richardson, Indiana University, arichard@bio.indiana.edu	Charles Ross, University of Arizona, clross@email.arizona.edu	Anne Cathrine Scheen, University of Oslo/ University of Florida, tine_scheen@hotmail.com
Susan L. Richardson, Smithsonian Marine Station at Ft. Pierce, richardson@sms.si.edu	Corinna Ross, University of Nebraska, cross@biocomp.unl.edu	Sonja Scheffer, USDA-Systematic Entomology Lab, sscheffe@sel.barc.usda.gov
Jonathan Richmond, University of Connecticut, jonathan.richmond@uconn.edu	Jutta Johanna, Roth Yale University, jutta.roth@yale.edu	Samuel Scheiner, National Science Foundation, sscheine@nsf.gov
Robert Ricklefs, University of Missouri, ricklefs@umsl.edu	Matthew Routley, University of Guelph, mroutley@uoguelph.ca	Doug Schemske, Michigan State University, schem@msu.edu
Nicole Riddle, Washington University, ncbahls@artsci.wustl.edu	Kevin Rowe, University of Illinois Urbana- Champaign, krowe@uiuc.edu	Kristina Schierenbeck, California State University-Chico, kschierenbeck@csuchico.edu
Loren Rieseberg, Indiana University, lrieseb@indiana.edu	Christine Rubio, Washington State University, cfabich@wsu.edu	Nikolaos Schizas, University of Chicago, nschizas@uchicago.edu
	Elizabeth Ruedi, University of Illinois Urbana- Champaign, eruedi@uiuc.edu	Jacqueline Schlosser, University of Illinois- Chicago, jschlo1@uic.edu
	Emily Ruell, University of Wisconsin- Madison, ewruell@students.wisc.edu	

Edwin Scholes, University of Kansas, escholes@ku.edu	Chris Simon, University of Connecticut, chris.simon@uconn.edu	Janette Steets, University of Pittsburgh, jsteets@pitt.edu
Elizabeth Scholl, North Carolina State University, scholl@ipass.net	Alastair Simpson, Dalhousie University, simpson@hades.biochem.dal.ca	Michelle Steinauer, University of Nebraska- Lincoln, unl michelle@aol.com
Eric Schranz, University of Wisconsin- Madison, schranz@facstaff.wisc.edu	Jack Sites, Brigham Young University, Jack_Sites@byu.edu	Jennifer Steinbachs, Indiana University, stein@bio.indiana.edu
Malcolm Schug, University of North Carolina- Greensboro, mdschug@uncg.edu	Arjun Sivasundar, Rutgers University, arjun@eden.rutgers.edu	Jeff Steinmetz, University of Illinois at Urbana- Champaign, jsteinmetz@life.uiuc.edu
James Schulte II, Smithsonian Institution, schulte.james@nmnh.si.edu	Micheal Slotman, Yale University, michel.slotman@yale.edu	Scott Stepan, Florida State University, steppan@bio.fsu.edu
Stewart Schultz, University of Miami, schultz@fig.cox.miami.edu	Michel Slotman, Yale University, MICHEL.SLOTMAN@YALE.EDU	James Stewart, Simon Fraser University, jbs@sfu.ca
Kent Schwaegerle, University of Alaska- Fairbanks, ffkes@aurora.alaska.edu	Christopher Irwin, Smith Harvard University, csmith@oeb.harvard.edu	Steven Stoddard, University of Illinois Urbana- Champaign, sstoddar@uiuc.edu
Heidi Schwaninger, PGRU/ARS/USDA, hs16@cornell.edu	Jim Smith, Michigan State University, jimsmith@msu.edu	Daniel Stoebel, SUNY-Stony Brook, dstoebel@life.bio.sunysb.edu
Dietmar Schwarz, Pennsylvania State University, dxs332@psu.edu	Michael Smith, Savannah River Ecology Lab, smith@srel.edu	Uwe Stoltz, University of Notre Dame, ustoltz@nd.edu
Douglas Scofield, University of Miami, d.scofield@umiami.edu	Robin Smith, Duke University, ras10@duke.edu	Jay Storz, University of Arizona, storz@email.arizona.edu
LuAnn Scott, University of Idaho, lscott@uidaho.edu	Shelly Smith, University of North Carolina- Greensboro, sgsmith@uncg.edu	Rex Strange, Southeast Missouri State University, rstrange@biology.semo.edu
Karen Sears, University of Chicago, kesears@midway.uchicago.edu	Vince Smith, University of Glasgow, v.smith@bio.gla.ac.uk	Barbara Stranger, Max Planck Institute of Chemical Ecology, bstrange@ice.mpg.de
Kristina Sefc, Boston University, sefc@bu.edu	Rhonda Snook, University of Sheffield, r.snook@sheffield.ac.uk	Jared Strasburg, Washington University, jlstrasb@artsci.wustl.edu
Andrea Sequeira, Harvard University, asequeira@oeb.harvard.edu	Natalia Sokolovska, McGill University, natalias06@hotmail.com	Joan Strassmann, Rice University, strassm@rice.edu
Jeanne Serb, University of Alabama, serb001@bama.ua.edu	Scott Solomon, The University of Texas- Austin, ssolomon@mail.utexas.edu	Sharon Strauss, National Science Foundation, sstrauss@nsf.gov
Efe Sezgin, SUNY-Stony Brook, e_sezgin@life.bio.sunysb.edu	Michael Sorenson, Boston University, msoren@bu.edu	Jack Sullivan, University of Idaho, jacks@uidaho.edu
Brad Shaffer, University of California, hbshaffer@ucdavis.edu	Erik Sotka, Harvard University, esotka@oeb.harvard.edu	Fengjie Sun, University of Illinois Urbana- Champaign, fsun@uiuc.edu
Lea Sheldahl, Brown University, Lea_Sheldahl@Brown.edu	Felipe Soto, University of Vermont, fsotoada@zoo.uvm.edu	Andrea Sweigart, Duke University, als21@duke.edu
Sue Sherman-Broyles, SUNY College at Cortland, SusanLSherman- Broyles@twcny.rr.com	Bruce Southey, University of Illinois Urbana- Champaign, southey@uiuc.edu	Don Swiderski, University of Michigan, dlswider@umich.edu
Suhua Shi, Zhongshan University, lssssh@zsu.edu.cn	Lauren Spearman, Rutgers University, spearman@eden.rutgers.edu	Zuzana Swigonova, Rutgers University, zswigon@rci.rutgers.edu
Kevin Shufran, USDA-ARS, kashufran@pswcr.ars.usda.gov	Christine Spencer, University of Georgia, spencer@uga.edu	William Swindell, Bowling Green State University, swindel@bgnet.bgsu.edu
Alice Shumate, Max Planck Institute of Chemical Ecology, shumate@ice.mpg.de	Hamish Spencer, University of Otago, h.spencer@otago.ac.nz	David Swofford, Florida State University, swofford@csit.fsu.edu
Quinn Shurtliff, Brigham Young University, qrs2@email.byu.edu	Janice Spofford, University of Chicago, j- spofford@uchicago.edu	Daniela Takiya, Illinois Natural History Survey, takiya@uiuc.edu
Derek Sikes, University of Connecticut, dss95002@uconn.edu	Stevan Springer, Simon Fraser University, saspring@sfu.ca	Derek Taylor, University at Buffalo, djtaylor@acsu.buffalo.edu
Mark Simmons, Colorado State University, psimmons@lamar.colostate.edu	Kara Stabler, Rice University, kstabler@rice.edu	Katherine Teeter, University of Michigan, kcteeter@umich.edu
Ellen Simms, University of California-Berkeley, esimms@socrates.berkeley.edu	Eli Stahl, University of Chicago, elistahl@midway.uchicago.edu	Matthew Terry, Brigham Young University, matthew_terry@byu.edu

Participant list, continued

Thomas Therriault, University of Windsor, tomt@uwindsor.ca	Moira van Staaden, Bowling Green State University, mvs@caspar.bgsu.edu	Daniel Weinreich, Harvard University, dmw@oeb.harvard.edu
Michael Thomas, Medical College of Wisconsin, mthomas@mcw.edu	Marcel van Tuinen, Stanford University, mvtuinien@stanford.edu	Arthur Weis, University of California-Irvine, aeweis@uci.edu
Near Thomas, University of California, tjnear@ucdavis.edu	Cheryl Vanier, University of Arizona, vanier@email.arizona.edu	Anton Weisstein, University of Otago, anton.weisstein@stonebow.otago.ac.nz
Richard H. Thomas, The Natural History Museum, rht@nhm.ac.uk	Christine Vassiliadis, University of St Andrews, cv5@st-and.ac.uk	Corey Welch, University of Washington, cwelch@u.washington.edu
James Thompson, University of Oklahoma, jthompson@ou.edu	Larissa Vassilieva, University of Utah, vassilieva@biology.utah.edu	Jennifer Wernegreen, Bay Paul Center Marine Biological Lab, jwernegreen@mbl.edu
Vinton Thompson, Roosevelt University, vthompson@roosevelt.edu	Sebastian Velez, University of Notre Dame, svelez@nd.edu	Joan West, University of Maryland, joanwest@wam.umd.edu
Jeffrey Thorne, North Carolina State University, thorne@statgen.ncsu.edu	Brian Verrelli, University of Maryland, verrelli@wam.umd.edu	Mark Westneat, Field Museum, mwwestneat@fmnh.org
Kevin Thornton, University of Chicago, k-thornton@uchicago.edu	Sara Via, University of Maryland, sv47@umail.umd.edu	Amy Wethington, University of Alabama, amyw65@juno.com
Elisabeth Tillier, University Health Network, e.tillier@utoronto.ca	Chris Vinyard, Duke University, cvinyard@acpub.duke.edu	Chris Wheat, Max Planck Institute for Chemical Ecology, cwheat@ice.mpg.de
John Tooker, University of Illinois Urbana-Champaign, tooker@uiuc.edu	Alfried Vogler, The Natural History Museum London, apv@nhm.ac.uk	Emily Wheeler, Rice University, ohiobug@rice.edu
Amy Toth, University of Illinois at Urbana-Champaign	Jennifer Wachtel, Salisduy University, jjw3890@salisbury.edu	Simon Whelan, Cambridge-UK, s.whelan@zoo.cam.ac.uk
Franc Trampus, University of Houston, ftrampus@uh.edu	John Wakeley, Harvard University, wakeley@fas.harvard.edu	James Whitfield, University of Illinois Urbana-Champaign, jwhitfie@life.uiuc.edu
Matthew Travis, SUNY-Stony Brook, mtravis@life.bio.sunysb.edu	Don Waller, University of Wisconsin-Madison, dmwaller@facstaff.wisc.edu	Alison Whiting, Brigham Young University, as77@email.byu.edu
Steven Travis, USGS National Wetlands Research Center, steven_travis@usgs.gov	Adam Wallner, University of Illinois at Urbana-Champaign, wallner@uiuc.edu	Michael Whitlock, University of British Columbia, whitlock@zoology.ubc.ca
Michael Travisano, University of Houston, mtrav@mac.com	Eric Waltari, Idaho State University, walteric@isu.edu	Jeannette Whitton, University of British Columbia, jwhitton@interchange.ubc.ca
Brian Traw, University of Chicago, btraw@uchicago.edu	Rosemarie Walter, Michigan State University, walterro@msu.edu	Holly Wichman, University of Idaho, hwichman@uidaho.edu
Deborah Triant, Purdue University, dtriant@fnr.purdue.edu	Baiqing Wang, University of Massachusetts Amherst, bwang@nsm.umass.edu	Alex Widmer, Indiana University-Bloomington, awidmer@bio.indiana.edu
Michael Tringali, Florida Fish and Wildlife Commission, mike.tringali@fwc.state.fl.us	Haoyi Wang, Miami University	Brian Wiegmann, North Carolina State University, bwiegman@unity.ncsu.edu
Subir Trivedi, University of Chicago, satrived@midway.uchicago.edu	Jinliang Wang, Zoological Society of London, jinliang.wang@ioz.ac.uk	John Wiens, Carnegie Museum of Natural History, wiensj@carnegiemuseums.org
Sara Turner, Purdue University, smturner@purdue.edu	Wen Wang, University of Chicago, wenwang@midway.uchicago.edu	Jennifer Wilcox, University of Arizona, wilcoxjl@u.arizona.edu
Nicole Valenzuela, Iowa State University, nvalenzu@iastate.edu	Todd Ward, USDA, wardtj@ncaur.usda.gov	Amity Wilczek, Harvard University, awilczek@oeb.harvard.edu
Alejandro Valerio, University of Illinois Urbana-Champaign, avalerio@uiuc.edu	Tim Watkins, Macalester College, watkins@macalester.edu	Jason Wilder, Princeton University, jawilder@princeton.edu
Mario Vallejo-Marín, Duke University, mv6@duke.edu	Colleen Webb, Princeton University, ctwebb@princeton.edu	Derek Wildman, Wayne State University, dwildman@genetics.wayne.edu
Jana Vamosi, University of Toronto, vamosi@botany.utoronto.ca	Jason Weckstein, Louisiana State University, jweckst@lsu.edu	Jon Wilkins, Harvard University, jfwilkin@fas.harvard.edu
Steven Vamosi, University of Toronto, vamosi@zoo.utoronto.ca	Stephen Weeks, The University of Akron, scw@uakron.edu	Barry Williams, University of Wisconsin
	George Weiblen, University of Minnesota, gweiblen@umn.edu	Becky Williams Utah State University, beckyw@biology.usu.edu

Rick Williams, Idaho State University,
willcha2@isu.edu

Rod Williams, Purdue University,
rodw@fnr.purdue.edu

Scott Williamson, University of Kansas,
scottw@ku.edu

Stephen Willson, Iowa State University,
swillson@iastate.edu

Alice Winn, Florida State University,
winn@bio.fsu.edu

Juliette Winterer, Franklin and Marshall
College, j_winterer@fandm.edu

Shaun Winterton, North Carolina State
University, wintertonshaun@netscape.net

Michael Wise, Duke University,
mjw3@duke.edu

David Witherspoon,
david.witherspoon@utah.edu

Jay Withgott, MEDIA: Freelance science
writer, withgott@nasw.org

Christopher Witt, Louisiana State University,
cwitt@lsu.edu

Jonathan Witt, University of Guelph,
jwitt@uoguelph.ca

Cynthia Wolf, University of Arizona,
Wolfcj11@aol.com

Jason Wolf, University of Tennessee,
jwolf@utk.edu

Lorne Wolfe, Georgia Southern University,
wolfe@gasou.edu

Ronny Woodruff, Bowling Green State
University, rwoodru@bgnet.bgsu.edu

Robert Woods, Michigan State University,
woodsrob@msu.edu

Anne Worley, Michigan State University,
worley@msu.edu

Jessica Wright, University of California-Davis,
wright@ucdavis.edu

Wenhua Wu, Medical College of Wisconsin,
wwu@brc.mcw.edu

Xuhua Xia, HKU-Pasteur Research Centre,
xxia@hkucc.hku.hk

Xianfa Xie, University of Notre Dame,
Xie.6@nd.edu

Yau-Wen Yang, Institute of Botany Academia
Sinica Taiwan, yauwen@sinica.edu.tw

Ho-Sung Yoon, University of Wisconsin,
hsyoont@facstaff.wisc.edu

Brent Young, University Windsor-GLIER,
evogenetics@hotmail.com

Sarah Young, Smithsonian National Museum
of Natural History,
young.sarah@nmnh.si.edu

Sarah Young, Smithsonian National Museum
of Natural History,
young.sarah@nmnh.si.edu

Ning Yu, University of Chicago,
ningyu@uchicago.edu

Roman Yukilevich, SUNY-Stony Brook,
yukilevi@life.bio.sunysb.edu

Tamaki Yuri, Smithsonian Institution LAB,
tyuri@lab.si.edu

James Zahniser, University of Illinois Urbana-
Champaign, zahniser@uiuc.edu

Kelly Zamudio, Cornell University,
krz2@cornell.edu

Richard Zander, Buffalo Museum of Science,
rhzander@sciencebuff.org

Pete Zani, University of Oregon,
pzani@darkwing.uoregon.edu

Amir Zarabi, University of Houston,
azarabi@uh.edu

Miriam Zelditch, University of Michigan,
zelditch@umich.edu

Anthony Zera, University of Nebraska,
azera@unlserve.unl.edu

Haitao Zhang, University of Houston,
hzhang4@uh.edu

Jianming Zhang, University of Chicago,
jzhang@midway.uchicago.edu

Zhongming Zhao, University of Texas-
Houston, zzhao@sph.uth.tmc.edu

Elizabeth Zimmer, Smithsonian Institution,
zimmer@lab.si.edu

Stefan Zoller, Duke University,
szoller@duke.edu

Eleftherios Zouros, Institute of Marine
Biology, of Crete zouros@imbc.gr

Rebecca Zufall, Duke University,
razi@duke.edu

Derrick Zwickl, University of Texas Austin,
zwickl@mail.utexas.edu

Index

Abernethy K.	57	Baker A.J.	P41, P47	Boake C.R.B.	P193
Abrams A. J.	P137	Baker J. M.	119, P145	Boerwinkle E.	113
Abrams P.A.	414	Baker M. B.	180	Bogart J.P.	P51
Adams D. C.	23, 330	Balakrishnan C.N.	198	Bohonak A.	P75
Adams K.	102	Ballard J.W.O.	475, 511	Bolton M.	P31
Adams S.	P102	Ballard K.J.	303	Bonacum J.	531
Adler F.R.	300	Banta J.	259	Borsch T.	223
Aguilar A.	P33	Barr C. M.	98	Bos D. H.	P98
Aguirre W.E.	173	Barrett S.C.H.	360	Bossuyt F.	290
Ajie B.	31	Bartolo C.	94	Bostwick K. S.	437
Akkaya M.S.	P211	Bashey F.	191	Boudreau M.E.R.	578
Al-tamimi S.	237, P196	Bates J.M.	P12	Bourguet D.	P212
Albertson C.	174	Baucom R.S.	519	Bouzat J.L.	P70
Aldrich P.	250	Bauer A.M.	294	Bowden R. M.	P80, P84
Alexander H.J.	439	Baum D. A.	165, 405, 406	Bradbury J.W.	457
Alfaro M. E.	126, 466	Bazzaz F.A.	261	Bradshaw W.E.	202, 454
Alia R.	P95	Beadell J.	221	Brahic J.	P46
Alipaz J.	463	Beckenbach A.T.	P1II, P79	Brandley M.	293
Allan G.	P23	Beerli P.	427	Braswell W.E.	227
Allen D.E.	P135, P133	Beever J.	241	Brown J.	192
Allen E. S.	116	Begin M.	452	Breden F.	439, 495
Alters B.	P1	Beilstein M.	521	Brisson J. A.	17
Alters S.	P1	Belfiore N. M.	208	Britch S.C.	275
Altheide T.K.	429	Bell D.	296	Brochmann C.	P43
Alva Y.	219	Bell J.	282, P206	Brode S.	77
Alvarez-Zagoya R.	134	Bell M. A.	87, 173	Brodie III E.D.	331
Amato G.	120	Beltran M.	269	Brodman B.	76
Amedegnato C.	P100	Benavides E.	P96	Bronikowski A. M.	P81
Ameniya C.	36	Bender J.B.	326	Brown A.H.D.	264
Amenta A.B.	417	Benfey P.	534	Brown R.	290
Anderson C.	11	Bennett A.	P25	Brown R. M.	292
Anderson E. C.	503	Berenbaum M.	P162, P200, P199, P205, 321	Brown S. P.	459, 464
Anderson L.L.	214	Bergelson J.	487	Bruford M.	57
Anderson M. R.	P62	Bergman A.	P168	Brumley M.	P166
Andolfatto P.	369	Berlocher S.H.	368, 241, 229	Brunet F.G.	339
Angeloni L.	457	Birmingham E.	269, 484, 523	Brunet J.	90
Anthony N.	57	Bernatchez L.	458	Bryant D.	160
Antolin M.	69, 73, 181	Bersch A.	410	Brysting A.	P43
Antonelis G.	P33	Berta A.	299, P33	Buck N.J.	173
Antonovics J.	389	Bertucci L.A.	381	Buckley T. R.	P26
Apanius V.	319	Betancourt A.	370	Buhay J.	P30
Araki H.	487	Betrán E.	33	Bull J.	71
Arcese P.	394	Bever J.D.	7	Bull V.	269
Archie J.	P72	Bickham J.W.	P57	Burbridge M.L.	P47
Ardelean A.	345, P1I	Bidart-Bouzat M.G.	P205	Burbrink F.	197
Arendt J. D.	78	Bielawski J.	257	Burch C.	P167, P169
Ashman T-L	P93, 358, 357	Biermann C. H.	228	Burda H.	295
Atmar W.	301	Bilgic H.	P2II	Burger R.	182
Aurit S.M.	P144	Bird D. M.	103	Burgess K. S.	265
Austin J.	58	Birdsell J. A.	37, P97	Burkholder J.	P160
Avial L.J.	P40, P24	Birk Jr. C.W.	385, 536	Burleigh J.G.	201, 555
Avivi A.	305	Birnbaum K.	534	Burns M. M.	P12
Ayoub N.	131	Bjorkman T.	P213	Burton R. S.	224, 335
Baack E.	386	Blake D.	P9	Burton T.L.	390
Babbitt C.	344	Blaney J.	22	Buschbom J.	550
Baer C.	181, 508	Blumenstiel J.	114	Butler M.	P99
Baggs J.	243	Boag P.T.	58, P51		

Byerley M.B.	548	Collins T.	393	Deschavanne P.J.	535
Byers D.L.	P65	Coloma L.	289	DeToni D.	17
Caccone A.	398	Comendant T.	262	Devaraj M.	328
Caicedo A.L.	428	Condon M.	74, 75	DeVincentis L.	P109
Caletka B.	P114	Conner J.	P136	Devitt T.	218
Cameron S.	154	Connor E.	P15	Devlin D. J.	359
Campbell J.	P13	Conroy C.	211, P14	deVos Jr. J.C.	P57
Campbell L.G.	239	Cook J.A.	P14	deWaard J.	56
Cannatella D. C.	66, 289, 290	Cooley J.	277	Dewar K.	36
Cantarelli V.H.	P125	Cooper V.	251	DeWoddy J.A.	208, 343, P78
Cao L.	24	Cork J.	333	Di Candia M. R.	P120
Carle F.L.	P37, P38	Corley L.S.	15	Dick C. W.	326
Carlin J.	222	Cotton J. A.	467	Diehl W.J.	P101, P175
Carlini D.	207	Coulbridge V.	P158	Dietrich C.H.	P19
Carlson K.	513	Coyne J.A.	382	Diggle P.K.	363
Carney S. E.	548	Craft K.	P119	Dillon R.	525
Carroll S. B.	18	Craig T.	P146	Dingle C.	P49
Carroll S. P.	185	Crandall K.A.	P30	Dingle H.	185
Carstens B. C.	P48	Crawford A. J.	184	Dinh D.	248
Carter A. J. R.	426	Crease T.	56	Dittmar de la Cruz K.	54
Carter P.A.	P81	Creer D.	79	Dixon S. M.	382
Caruso C. M.	513	Crespi B.J.	132, 146, 230	Dlugosch K.	505
Casas A.	94	Cristescu M.	56	Doan J.W.	200
Case A.	358	Cronk Q.C.B.	403	Docker M.	77
Cassens I.	209	Crooks K.	208	Doebeli M.	391
Chakraborty S.	P99	Crossa M.	P64	Dohm M.	P180
Chan Y.	210, 394	Crozier R.H.	P79	Dole J.	281, 410
Chao L.	38	Cruse-Sanders J. M.	244	Donelson N.	P158
Charlesworth B.	369	Cruzan M.	P139	Donoghue M.J.	201
Charlton C.	P75	Culliton S.	P31	Dopman E.B.	P148
Charnov E.L.	457	Cummings M. P.	546	Dorken M. E.	360
Chen C-F	P176, P178, 105	Cunningham C.	128	Doust A.	402, 445
Chen W. J.	124	Currie C.	183	Downie D.	29, 129
Cheverud J. M.	14	Cutter A. D.	371	Doyle I.J.	264
Chintauan-Marquier I.C.	P100	Dahlhoff E.	177, 179	Driskell A.	545
Chiu C-H	408, 36	Dale C.	P170	Drnevich J.	490
Cho G.	415	Daly M.	55	Drumm K.E.	P121
Choi W. Y.	P27	Dambroski H.	P147	Dubach J.	P68
Chong N. L.	P89	Dantchenko A.	P152	Dubb L.	109
Chubb A.	474	Davila J.A.	P51	Duckett C.N.	P36
Clark L.	134	Davis B. H.	414	Dudycha J.	508
Clark M.	11	de Queiroz K.	293	Duffy M. A.	276
Clauss M.J.	517	Dean A.	44	Dufresne F.	502
Clay M. D.	P28	Dean M.D.	326	Dunbar H.	532
Clayton D.	P196, 237	deBakke P.I.W.	P45	Duncan I.	17
Clifford S.	57	DeBry R. W.	297	Dunn P.O.	399
Cohan F.	254	Deets A.J.	P83	Duvernell D.D.	P102
Cohen S.	334	Degnan P.	232	Dworkin I.M.	407
Colautti R.	302	Delesalle V.A.	101, 356	Dybdahl M.	21
Colbourne J.	P59	Delph L.	317	Dyer K.	133
Colbourne R.M.	P47	DeLucia E.H.	P205	Dyer R.	430
Colburne J.K.	P133, 50	Demboski J.	268	Dykhuizen D.E.	252
Coleman J.	P152	Demuth J.	140	Eads B.	P50
Coleman S.	438	Denney E.	P29	Eanes W.F.	432, P105, P127
Colgan D.	P17	Denning W.	259	Easteal S.	312
Collin R.	354	Derrickson E. M.	P82	Ebbert M.	P160
Collins S. A.	368	DeSalle R.	120, 531	Eble G.	168

Index, continued

Eckert C.G.	361	Freedberg S.	280	Grossman L.I.	200
Edmands S.	136, 341	French J.A.	P185	Gu S.	P134
Edwards A.	240	Freudenstein J.V.	541	Gu Z.	III
Edwards S. V.	535	Friar E. A.	283, 388	Guan D. M.	P63
Eggert L.	221	Fritz A.	P90	Guralnick R.	525
Eisen E. J.	14	Fritz G.	P83	Gutierrez-Rodriguez C.	483
Elder D.	190	Fry A.J.	108	Hackett S.J.	P12
Elliott N.C.	P61	Fry C.	436	Hadly E.A.	210, 211
Ellis A.G.	522	Fry J. D.	30	Hafner M.S.	554
Elmer K. R.	P51	Fujita M.	63	Hahn D. A.	510, 537
Elven R.	P43	Fyler C.	P33	Hairston Jr. N.G.	372
Elz A.E.	59	Galbraith D.	534	Halpern S.L.	285
Emerson J.J.	376	Gallagher E.	P29	Hambrick J.L.	244
Engstrom T.	395	Ganley A.	529	Hammer M. F.	I06, 429
Epperson B.K.	431	Ganz H. H.	P198	Hammond K.	320
Estes S.	31	Garcia de Leon F.	123	Hamrick J.L.	519
Eunmi Lee C.	139, P50, P52, P53, P115	Gargas A.	401	Haney R.	336
Evans B. J.	1, 66	Garland Jr. T.	P81	Hanks L.M.	249, 279
Exner N.	P4	Gascon C.	P51	Hanley K.	22
Fain M. G.	II7	Gassmann A. J.	91	Hannon B.	P69
Fairbairn D.	435, 491	Gastony G.	P174	Hansen T.	479, 481
Faith D. P.	P5	Gaut B.	522	Harcombe W.	P171
Faith J.J.	196, 197	Gelembiuk G. W.	P52, P53	Hardman M.	125
Fallon J.F.	P184	Genereux D.P.	P122	Hare M.	P126
Fallon S. M.	233, 523	Gerardo N.	183	Hare M.P.	396
Falsafi R.	P111	Gerlach J.	398	Harmon L. J.	172
Famula T. R.	185	Gerner M.	P52, P53	Harms H.K.	P80
Fang S.	463	Geyer L.B.	P154, 284	Harper G.	P161
Farias I.P.	P64	Gibbs H.L.	P103	Harris M.P.	P184
Farrell B. D.	145	Gibbs M.	P5	Harrison C.J.	403
Fasolo A.	462	Gibson A.	P210	Harrison J. S.	136, 341
Fautin D. G.	55	Gilchrist M. A.	194	Harrison R.G.	270, P148
Fearnley S.	130	Gillespie J.G.	P36	Harshman L.	316
Feder J.	141, 206, 337, P147	Ginzel M.D.	279	Hartl D. L.	38, II4, II4
Fedorka K. M.	509	Giordano R.	134	Hartsough C.	P15
Feeny P.P.	520	Giron A.	535	Hauser M.	P16
Feldgarden M.	252	Gitzendanner M.	P34	Hausmann N.	P142
Feldman C.	II5	Given A.D.	P89	Hawthorne D.	3, P159
Feldman M.W.	375	Glass A.	303	Haygood R.	480
Felsenstein J.	109, 418, 427	Glor R.	67, P54	Heard S.	153
Fertil B.	535	Goldberg A.	200	Heath D.D.	77, 302, 415
Fetzner Jr. J. W.	P30	Goldman N.	470, 471, P45	Heffelfinger J.R.	P57
Filimon F.	472	Goldman R.	253	Helfgott D. M.	P35
Fitzpatrick B. M.	501, P149	Gong Y.	P134	Heltemes J.P.	P155
Fleischer R.	221	Good J.	268	Henagan L.M.	P150
Flescher B.	P67	Goodman M.	200	Hendrickson D.	123
Flowers J.	335	Goodman S.M.	P12	Hendrickson S.	61
Foellmer M.	491	Goodwillie C.	97	Henry E.	385
Foltz D.	P31	Gorelick R.	25	Hepburn R.	77
Fondrk M.K.	450	Gould F.	4	Herbert P.	50, 56, 142
Fontanella F. M.	P32	Grace J. L.	P191	Herbertson L.	385
Ford T.	P197	Grace S.L.	359	Hereford J.	258
Fortunato A.	9, IO	Gray R.	472	Herlihy C.R.	361
Foster K. R.	9, IO	Greene H. W.	68	Hermisson J.	481
Fox J.A.	372	Greig D.	152	Herron J.	72
Frabotta L.	298	Grenfell B.T.	459	Hersch E.	81
France S.C.	351	Grieg D.	26	Heschel M. S.	P142
Franke D.	P67	Griswold C.K.	80	Heske E. J.	60

Hevner S. J.	P207	Jacobsen G.	P34	Klinger J.	417
Hey I.	485	Jaenike J.	133	Clitz W.	312
Heywood J.S.	446	Jahn M.	8	Kohout R.	P79
Hicks S.	384, 492	Jakobsson E.	P4	Kolbe J. J.	P54
Higgs P.	544	James A.C.	511	Kolodinska A.	260
Hileman L. C.	165	Jansen R.	P6	Kolpak S.	P135
Hillis D. M.	290, 417	Janzen F. J.	23, P80, P84	Konstantinov A.	P36
Hilu K. W.	223	Jeffery K.	57	Koontz J.	238
Hobaek A.	502	Jenkins D.	P75	Koscinski D.	P51, P123
Hochberg M.	P212	Jensen-Seaman M.I.	P176, P178, I05, 287	Kosnik M.	276
Hochberg M.E.	459, 464	Jiggins C.	269	Kossler T.	449
Hodkinson T. R.	171	Johansen A.D.	266	Kozak K.H.	62
Hoekstra H.E.	P121, 307	Johns G. C.	163	Kramer E. M.	165
Holder M.	419, 420, 421	Johnson C.	490	Krebs R.	462, P39
Hollenbach J.	312	Johnson J.A.	399	Kreitman M.	487
Holliday J.	82	Johnson K.	P202	Krukonis G.	254
Hollocher H.	P132, P151, P157	Johnson K.P.	231, 237, 324	Kuch M.	213
Holloway A. K.	40	Johnson N.	451	Kuch U.	524
Holmquist K.	282, P208	Johnson-Bawe M.	57	Kuhner M.K.	427
Holston K.	347	Jokela J.	21	Kurdziel J.	P2
Holway D.A.	548	Jones D.	470, 471	Labate J.A.	P213
Holzapfel C.M.	454	Jones D.B.	P61	Lacey E.	366
Honeycutt R.L.	295, 298	Jorgensen S.	215	Lai Z.	P172
Hopkins T.S.	P32	Joseph M.	P178, P179	Lampe D.	P99
Hotchkiss P.	P186	Joshi A.	188	Landry C. R.	P154, P183
Houle D.	447	Jost M.C.	161	Langham G.	329
Howard D.J.	227, 275	Jovelin R.	35	LaPolla J.S.	P7, 468
Howard R. S.	P194	Jow H.	544	Larsen E.	45
Howell C. E.	27	Joy J.B.	P215	Larson A.	62, 67, P54
Hrbek T.	178, P64	Joyce P.	P48	Larson B.	P3
Hu D.	P67	Jung J.	534	Larsson H.	164
Hu F.S.	214	Just W.	19	Lasker H.R.	483, 351
Huber K.	158	Kandul N.	P152	Latta R.G.	266, 518, P73
Hudelot C.	544	Karanth P.	305	Lattier D.	P173
Hudson A.	403	Karr T.	11	Lattore C.	213
Hughes A. L.	488	Karron J.	P206, P208, 282	Lawler R. R.	P124
Hughes K.	490, P87, P91, P189	Katju V.	530	Lawrence K.	441
Huhndorf M.H.	P56	Katz P.	P153	Lawton-Rauh A.	332
Hulsey D.	123	Kealy C.P.	P153	Lazarus A.	232
Hume G.	270	Keller S.	P173	Lazorchak J.	P173
Hunter K.	P29, P74	Kelley B.	P31	Leahy N.	456
Hurley-O'Hara J.	74, 75	Kellogg E.A.	402, 445, 521	Leamy L. J.	14
Hurtado L. A.	528	Kelly J.	412	Lee T.E.	P57
Husband B.C.	239, 265, 365, 390	Kenchington E.	24	Lenski R.	83
Hutchison D.	P55	Kennedy M.	324	Leonard J.E.	P193
Huttemann M.	200	Ketterson E.D.	P116	Levin E.	P177
Huttley G.	312	Keyser A.	392	Lewis L.	420
Ingram C.	295	Keyser M.	392	Lewis P.	419, 420, 421
Innes D.	P138	Kim C-M.	47	Lewis S.	P173
Inward D.	52	Kim J.	12, 13	Lexer C.	267
Irvin M.	347	Kim S. C.	85	Li C-B.	404
Irving N.	P104	Kingan S.	496	Li W-H.	III, 287, 306, 477
Itami J.K.	P146	Kingsolver J. G.	P203	Light J.E.	554
Ivey C.	411	Kinney M. S.	283	Lively C.M.	21, P195
Ivy T. M.	P192	Kishino H.	53, 470, 471	Livingstone K.	P172
Jackson R.B.	513	Kistler H.	257	Llopert A.	44
Jacob H. J.	I05	Kjer K.M.	353, 468, P7, P36, P37, P38	Lockhart P.J.	154
Jacobs F.	323	Kliman R.M.	P104	Loew S. S.	P56, P62, P63

Index, continued

- Logsdon Jr. J.M. P122
 Lohmann L. G. 549
 Long M. 44, 339, 376
 Lopez-Medrano E. P145
 Losos J. B. 172, P54
 Louda S. P66
 Lougheed S.C. 58, P51, P123
 Lovette I. J. 220
 Lozovsky E. II4
 Lu J. 105
 Lui T. 543
 Luk A. P1
 Lukens L. 195
 Lukhtanov V. P152
 Lundblad J. 130
 Lundrigan B.L. 193
 Lustofin K. P162
 Lutzoni F. 466
 Lydeard C. 527, P17
 Lynch M. 31, 203, 508, 530, P59,
 P133, P135, P188
 Lyons-Sobaski S. 241
 Mable B.K. 96
 MacDonald B. 24
 MacDougall-Shackleton E. A. P103
 MacIsaac H. 302
 MacKenzie J.L. P73
 Maddison D. 350
 Mah C. 167
 Maherli H. 513
 Malcomber S. 402
 Mallet J. 269
 Malone C. L. P57
 Manlucu L. 22
 Mannouris C. P65
 Marcot J. 424
 Mardulyn P. 157
 Marklow T. A. 147, 135
 Marler C. 318
 Marlowe J. P160
 Marshall D. C. 51
 Marshall J.L. P28
 Martin N. 504
 Marzluff J. II5
 Masel J. P168
 Masly J. P. 30
 Mason-Gamer R. J. 547, P35
 Massingham T. 469
 Masta S. 219, 291
 Mate J. 52
 Mateos M. 527
 Mather K. 312
 Mathews S. 41, 201, 555
 Mathias D. 454
 Matthee C.A. 296
 Matzkin L. M. 432
 Maughan H. 536
 Mauricio R. 519
 Mautz W. P180
 May G. E. P52, P53
 May M.L. P38
 McBreen K. 41
 McBride R. 26
 McCartney M.A. 484
 McClellan D. A. 43, P18, P96
 McClung A. 221
 McCord W. 395
 McDaniel S. F. P85
 McDonald J.H. 137
 McDonnell C. P199
 McFadden C.S. 351
 McFarland K. 441
 McGlothlin J. W. P116
 McKay J. K. 92
 McKinnon J.S. 148, P144, P153, P155
 McKittrick T. 482
 McKone M.J. 285
 McMillan D. 177
 McMillan W.O. 484
 McPeek M. P163
 Meagher T.R. 455, 478
 Medina-Marino A. P23
 Meffert L. 384, 492, P71
 Meiklejohn C.D. 104
 Melnick D. J. 66
 Mendelson T. C. 144
 Mercer D. 198
 Merritt T. J. S. P105
 Metz M. A. 169, 494
 Meyer A. P64
 Meyer D. P106
 Mezey J. 447, 448
 Michaels H.J. 413, P207
 Michel-Salzat A. 48
 Michler C. 250
 Mikheyev A. S. 278
 Mikulyuk A. 514
 Millinkovitch M. C. 290, 422
 Miller K. P102
 Miller J. 364
 Miller J. S. 363
 Miranda M. P138
 Mitchell R. 282, 413, P206, P207, P208
 Mitchell-Olds T. 92, 514, 517
 Mitton J. 489, 5
 Moeller D. 99
 Moeller M. 403
 Mooney D. P118
 Moore F. B.-G. 256
 Moore S. 245, P180
 Moran N.A. 532, P170
 Morando M. P24, P40
 Moret B. P6
 Morgan K. P135
 Morgan T.J. P81
 Mori S. 148
 Moriuchi K. 258
 Morjan C. P187
 Morris M.R. 500
 Moulton J. K. 49
 Moulton V. 159
 Mousseau T.A. 509
 Moyle L. C. 389
 Mueller M. P76
 Mueller R. L. 89
 Mueller U. 183
 Muir C. P67, P180, 245
 Muirhead C. 433
 Mullen S. P58
 Mundt C. 90
 Murphy B. 22
 Murray D. L. 512
 Muth N.Z. 242
 Myers E. R. 217
 Myers D.S. 546
 Nachman M.W. 106, II0, 307, P121, P129
 Nagorsen D. 268
 Nakazato T. P174
 Nason J. 153
 Navarro-Siguenza A.G. P145
 Near T. J. 473
 Nei M. 533
 Neiman M. B. P195
 Nesbitt J. 192
 Nevo E. 305, 339
 Nicholson W.L. 536
 Nickrent D. 240
 Nicolae D. III
 Niehaus K. 223
 Nielsen M. G. 16
 Nolan Jr. V. P116
 Noor M.A.F. 141, 380, 381, 382, P150
 Norris A. P107
 Nosil P. 230
 Novak J.M. 64
 Novembre J. P108
 Nunney L. 373
 O'Donnell K. 257, 526
 O'Grady P. 531
 Oakley T.H. 477
 Ober K. 350
 Oberholzer-Vanergon V. P107
 Ofria C. 83
 Ogden T. H. 348
 Oleksykt T. 288
 Olsen K. 95
 Olson T. P21
 Olsson M. P88
 Olvido A.E. 461
 Omland K. E. II5, II6, II9, P145
 Orti G. P66, P185, 124
 Ortiz-Barrientos D. 141, 380, P150
 Osborn T. 195
 Osentoski M. 393

Ostrowski E.	83	Poole J.	155	Riginos C.	137, 142, 342
Otero A.	94	Porter A. H.	180, 451, P177	Riley M.A.	P124
Outlaw D. C.	118	Powell R.	67, P54	Rissler L.	65
Page Jr R.E.	6, 450	Prachumwat A.	P109	Riveroll Jr. H.	P186
Page R.D.M.	324, 467, P197	Prasad N. G.	188	Roberts T. E.	P60
Pai A.	493	Presgraves D.	370, 225	Robertson H. M.	42, 199, 229
Paige K. N.	60, 214, P205	President M.	312	Robertson H.A.	P47
Paland S.	P59	Price D.K.	245, P67, P180	Robertson L.D.	P213
Palkovacs E. P.	398	Price T.D.	P103	Robichaux R.H.	332
Palmer M.R.	187	Promislow D. E. L.	27, 392	Robinson B.W.	263
Palopoli M.	P109	Proulx S. R.	300	Robinson D.	470, 471
Palumbi S.R.	226, 246, 274, 284, 396, P154	Prum R. O.	P184	Robinson T.J.	296
Panhuis T.	383	Pryor S.R.	P102	Robison B.	P188
Pankiw T.	450	Purdue J.	288	Robson S.K.	P79
Paradis A.	P66	Purugganan M.D.	95, 332, 333	Rodd H.	P91
Parent C.	132	Quance M.	255	Rodgers D.	P18
Parker G.	250	Queller D.C.	9, 10, 465	Rodriguez-Zas S.	P42
Parker P.G.	P116	Raff E. C.	16	Roff D.A.	444, 452, 453
Parsch J.	104	Ragland G.J.	P203	Rogers S.	458
Parsons K.	263	Rajakaruna N.	P164	Rohlf F. J.	162
Partis K. L.	97	Rajamani M.	188	Rojas-Soto O.R.	P145
Patch H.M.	42	Rakitov R.A.	P19	Rokytka D.	P169
Patel N.	344	Ramsdell K. M. M.	229	Roles A.	P136
Paton T.A.	P41	Rand D. M.	108, 187, 204, 336, 434, 496	Romero-Severson J.	250
Patterson B.D.	326	Randell R. A.	85	Ross C.L.	P126, 135
Paulson W.L.	P155	Rank N.	130, 177, 179	Ross C.N.	P185
Payne R.B.	235, 308	Ranz J. M.	104	Roth J. J.	408
Payseur B. A.	110, 371, P129, P181	Rattray M.	544	Routley M.	365
Pearse D.E.	P84, P125	Raubeson L.	P6	Routman E.J.	219, 291, P120
Peden C.	176	Rauscher J.T.	264	Rowe K.C.	60
Pedersen S.C.	P48	Rauser C.	189	Rowland B.	P188
Pennock D.S.	286	Rausher M. D.	34, P209	Roy D.	415
Penny D.	155	Rawlings T.	393	Rubio C. K.	15
Pepin K.	P167	Raymond O.	267	Ruddle F.	36
Percy D.	349	Ree R.	423, 545	Ruedi E.	P189
Perez K.	P17	Reed D.	147	Runck A.M.	P14
Perez-Negrон E.	94	Reed J. W.	39	Rüppell O.	450
Perkins III J. D.	P175	Reed L.	271	Russell J. A.	P170
Peterhans J.C.K.	P56	Reeder T.	299, P33	Russello M.	120
Petersen R. A.	P199, P200	Reiland J.	381	Ryall K.	505
Peterson B.	P156	Remigio E.	56	Rychel A.	299
Phillips P. C.	31, 35, 81, 176	Remington D.L.	39	Sacherova V.	56
Piantek M.	P210	Renn S.	P180	Sachs J.L.	327
Pickett K.M.	541	Reynolds N.	P75	Sackton T. B.	204
Pie M. R.	170	Reynolds R.	P87	Sagers C.L.	P201
Pierce N.	P152	Reza A.	P180	Sainz A. R.	P151, P157
Pierotti R.	286	Reznick D.	190, P91	Salamin N.	171
Pigliucci M.	242, 259, 260	Rhode J.	P139	Sampaio I.	P64
Pinter S.	P74	Rhodes Jr. O.E.	P57	Sanchez J. A.	351
Piontovska H.	533	Richard A.F.	P124	Sanderson M.J.	423, 545
Platt A.	112	Richards E. J.	32	Sandoval C.	230
Podlaha O.	P86	Richards J. H.	92	Sang T.	404
Poe S.	474	Richardson S. L.	551	Santiago M.	P104
Poinar H.	213	Richmond J.	20	Santini F.	127
Polluck D.D.	196, 197	Ricklefs R.E.	233, 523	Santos J.C.	289
Pomp D.	14	Riddle N. C.	32	Sasaki A.	194
Pompanon F.	P100	Rieseberg L. H.	85, 150, 267, P172	Sassman E.L.	P155
Ponder W.F.	P17	Rifkin S.	12, 13	Saunders M.A.	106

Index, continued

- Savolainen V. 171
 Saxon G. 391
 Schaal B.A. 428
 Scheen A. C. P43
 Scheffer S. 2
 Scherson R. 84
 Schizas N.V. 475
 Schliekelman P. 4
 Schlenger E.I. 355
 Schlosser J. P68
 Schluter D. 148
 Schmidt T.R. 200
 Schmitt J. P142
 Scholl E. H. 103
 Schranz E. 195
 Schug M. P128, P130
 Schuler M. P199, P200
 Schulte II J. A. 172
 Schultz S.T. P92, 416
 Schwaegerle K. P76
 Schwaninger H. R. 138
 Schwarz D. 272
 Scofield D. G. P92
 Scott L. P110
 Scriber J.M. 369
 Sears K. 409
 Sefc K. M. 308
 Selegue J.E. 18
 Serb J.M. 205
 Sezgin E. P127
 Shaffer B. 63, 395
 Shaffer H.B. 501
 Shakarad M. 188
 Shaw A.J. P85
 Shaw K. L. 144, 161, P191
 Shearer C. P13
 Sheets H.D. 193
 Sheldahl L.A. 434
 Shell S.S. P155
 Shi S. 553, P77
 Shi X. 413
 Shoup S. 420
 Shufran K. A. P61
 Shurtliff Q. P18
 Sikes D. 46
 Simmons M. 476, 540, 541
 Simms E. L. 7, 322
 Simpson A. 553
 Sinervo B. 262, 464
 Sites Jr. J. 249, P24, P40, P96, P125
 Sivasundar A. 485
 Slotman, M. 506
 Smith C. I. 145
 Smith J. P44
 Smith M. P173
 Smith M. H. 64, 288
 Smith R. P209
 Smith S. P128, P130
 Smith T.B. P49
 Smith V. P202
 Snook R. 443
 Sokolovska S. 453
 Sokurenko E. 252
 Soltis D. P34, P43
 Soltis P.S. P34, P43
 Somero G. N. 163
 Sorenson M.D. 198, 235, 308
 Sork V. 430
 Sotka E. 246
 Soto F. 352
 Southey B. P4, P42
 Spencer C. C. 27
 Spencer H. G. 375, 378
 Spicer G. P15, P46
 Spinks P. 395
 Spotorno A. 213
 Springer S. A. 146
 Stahl E. 487
 Stajich J.E. 537
 Stamberger J. A. P204
 Stanton M. 84
 Starkey D. 63
 Steets J. A. P93
 Steinauer M. L. 186
 Steinbachs J. 475
 Stephan W. 207
 Steppan S. 82, 213
 Stewart J.B. P111
 Stewart S. P83
 Stoddard S. P69
 Stoltz U. 206, 337
 Storz J. F. 309, P129
 Stowe K.A. 322
 Strange R. 440, 441
 Stranger B. 514
 Strasburg J. 310
 Strassmann J.E. 9, 10
 Sullivan E. 257
 Sullivan J. 268
 Sullivan J.M. P48
 Sun X. 500
 Supriantna J. 66
 Svensson E. 262
 Swanson W.J. 227
 Sweigart A. L. 338
 Swiderski D. L. 166
 Swigonova Z. 353, 468, P7
 Swindell W. P70
 Swofford D. 419, 421
 Tai P-Y. P113
 Takiya D. M. P19
 Tallamy D. P36
 Tatar M. 187, 496
 Taylor D. J. 273
 Taylor D.L. 7
 Taylor E.B. 59
 Teeter K. P141
 Templeton A. 156
 Terry M. 542
 Tessier A.J. 276
 Therriault T. 247
 Thiede D. 84
 Thomas M. A. 105, P176, P178, P179
 Thompson D. 515
 Thompson E.A. 503
 Thompson Jr J.N. 340
 Thompson R. P138
 Thompson V. 93
 Thomson G. 312
 Thorne J. L. 53, 103, 470, 471
 Thornton K. 339, 376
 Threloff D. 142
 Tian D. 487
 Tillier E.R.M. 543
 Tishkoff S.A. 311
 Toll S. P156
 Tonellato P. J. 105, P178, P179
 Tooker J. F. 249
 Tozier Pierce A. P130
 Trampus F. 460
 Tran P. P170
 Travis M. 87
 Travis S.E. 243, 359
 Travisano M. 26, 152, 248, 253, 255, 391, P22, P166, P183
 Traw M. B. 520
 Trexler J. 393
 Triant D. A. 343
 Trimble R. P67
 Trimble S.T. P201
 Tringali M. P131
 Tsagarakis D. 24
 Tubaro P.L. P123
 Tucker P. P141
 Tureman J.W.H. P5
 Tutin C. 57
 Twigger S. 105, P176
 Tymczyna-Cobbs C. P189
 Uller T. P88
 Uyenoyama M. P94
 Vacher C. P212
 Vail T. P72
 Valenzuela N. 23
 Valerio A. A. P20
 Valiente A. 94
 Vallejo-Marin M. P94
 Vamosi J. C. 539
 Vamosi S. M. 149, 539
 van Staaden M. P158
 Van Tuinen M. 210, 211
 Vanier C. 515
 VanVuren D. 208
 Vassiliadis C. 455
 Vassilieva L.L. 28

Veerassamy S.	543	Whitlock M. C.	80, 377	Zani P.	304
Veillet A.	P67	Whitton J.	505, P21, P164	Zarrabi A.	P190
Velez S.	206, 337	Wichman H.	P110, P167, P169, 70	Zelditch M. L.	193
Verrelli B.C.	311	Wickings J.	57	Zeleneitz S.	518
Via S.	P159, 143	Widmer A.	150	Zera A.	314
Vidal N.	524	Wieczorek A. M.	68	Zhang J.	44
Vinyard C.	P181	Wiegmann B. M.	49, 53	Zhao Z.	113
Vision T. J.	39	Wiens J. J.	122	Zhou A-L	404
Voelker G.	118	Wiernasz D.	P190	Zhu F.	19
Vogler A.P.	52	Wiersema J.	223	Zimmer E.	P23
Vollmer S. V.	274	Wilcox J.	532	Zoller S.	466
Vrijenhoek R.C.	527, 528	Wilczek A.M.	261	Zouros E.	24
Wachtel J.	P29	Wilder J.	P132, P157	Zufall R.A.	34
Wade M.	140	Wildman D.E.	200	Zwickl D. J.	417, 425
Wagner G.P.	36, 164, 408, 426, 481	Wilkins J. F.	486		
Wagner Jr. W.E.	461	Wilkinson G.	P156		
Wagner W.L.	P23	Williams B. L.	18, 199, 331		
Wakeley J.	374, 486	Williams C. F.	P210		
Walden K.K.O.	199	Williams F.	153		
Walden M.	P188	Williams R. N.	P78		
Waldman B.	P98	Williamson S.	P112		
Waller D.	410	Willis J.H.	338, 504		
Walter R.	216	Willson S.	P8		
Wang B.	P177	Wilsher C.	52		
Wang J-Y	P113	Wilson C.	50		
Wang J.	377	Wiltshire B.	240		
Wang L-S	P6	Wingfield J.	262		
Wang W.	339, 376	Winterer J.	379		
Ward T.	257	Winterton S.L.	355		
Warnow T.	P6	Wise M.	516		
Watkins T.	P163	Withers D.I.	P30		
Weatherhead P.	P69	Witherspoon D.	199		
Weckstein J.	236	Witt C.	121		
Weeks S.	P143	Witt J.	142		
Weiblen G.	234	Wittkopp P.J.	18		
Weider L.J.	502	Wolf C.	385		
Weigmann B.	347, 355	Wolfe L.	362		
Weinreich D.M.	38, 434	Wolfner M.	315		
Weis A.E.	322, 379, 449, 522	Woodruff R. C.	340, P134		
Weisstein A.E.	375, 378	Woods R.	88		
Weitz J. S.	170	Wray G.A.	537		
Welch A. M.	286	Wright A. R.	27		
Welch C.	497	Wright J.	84		
Welch M.	267	Wu C-I	463		
Wenzel J.W.	541	Wu W.	P179		
Wenzel R.L.	326	Xuchua X.	P10		
Wernegreen J.	232	Yamato J.	427		
West J.	97, P159	Yan G.	493		
Westneat M.	126	Yang Y-W.	P113		
Wethington A.	525	Yeates D. K.	53		
Wheeler E.	P71	Yoon H.-S.	405		
Whelan S.	P45	Young B.	415		
White K.	13	Yu N.	306		
White L.	57	Yu M.H.	200		
Whitehead S.	22	Yukilevich R.	P165		
Whitfield J.B.	48, P20, P27	Zamudio K. R.	68		
Whiting A.S.	294	Zander R.	538		
Whiting M.F.	54, 348	Zangerl A.	321		

the diversity of life

Foundations of



The Amphibians and Reptiles of Costa Rica

A Herpetofauna between Two Continents, between Two Seas

Jay M. Savage

1056 pages, 516 color plates, 396 maps, 335 line drawings, 36 tables
Cloth \$75.00

Foundations of Tropical Forest Biology

Classic Papers with Commentaries

Edited by Robin L. Chazdon and T. C. Whitmore

Published in association with the Association for Tropical Biology
850 pages, 20 halftones, 169 line drawings
Paper \$35.00

Population Viability Analysis

Edited by Steven R. Beissinger and Dale R. McCullough

496 pages, 71 line drawings, 29 tables
Paper \$35.00

Acoustic Communication in Insects and Anurans

Common Problems and Diverse Solutions

H. Carl Gerhardt and Franz Huber

544 pages, 5 halftones, 200 line drawings, 6 tables
Paper \$35.00

Food Webs

With a new Foreword

Stuart L. Pimm

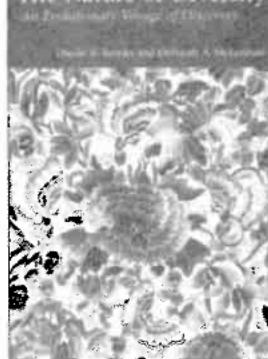
240 pages, 65 line drawings, 24 tables
Paper \$20.00

Wild Cats of the World

Fiona Sunquist and Mel Sunquist

416 pages, 43 color plates, 38 halftones, 48 line drawings, 36 tables
Cloth \$45.00

The Nature of Diversity



Darwin's Cathedral

Evolution, Religion, and the Nature of Society

David Sloan Wilson

232 pages, 9 tables
Cloth \$25.00

The Nature of Diversity

An Evolutionary Voyage of Discovery

Daniel R. Brooks and Deborah A. McLennan

680 pages, 235 line drawings, 44 tables
Paper \$35.00

Parasitism

The Ecology and Evolution of Intimate Interactions

Claude Combes

Translated by Isoure de Buron and Vincent A. Connors

With a Foreword by Daniel Simberloff
Interspecific Interactions
552 pages, 145 line drawings, 51 halftones
Cloth \$55.00

The Life of a Virus

Tobacco Mosaic Virus as an Experimental Model, 1930–1965

Angela N. H. Creager

352 pages, 30 halftones, 31 line drawings, 3 tables
Paper \$27.50

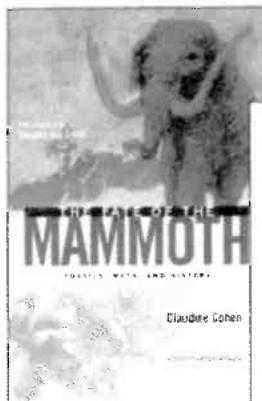
In Nature's Name

An Anthology of Women's Writing and Illustration, 1780–1930

Edited by Barbara T. Gates

704 pages, 28 halftones, 37 line drawings
Paper \$27.50

Visit our booth for a 20% discount on these and related books.



MAMMOTH

Fossils, Myths, and History

Claudine Cohen

336 pages, 23 halftones, 46 line drawings
Cloth \$25.00

騰飛之龍

Dragon, Myth, and History

Cladine Cohen

336 pages, 23 halftones, 46 line drawings
Cloth \$25.00

A Brain for All Seasons

Human Evolution and Abrupt Climate Change

William H. Calvin

352 pages, 46 halftones, 20 line drawings
Cloth \$25.00

The Fate of the Mammoth

Fossils, Myth, and History

Claudine Cohen

With a Foreword by Stephen Jay Gould
Translated by William Rodarmor
336 pages, 23 halftones, 46 line drawings
Cloth \$30.00

Rise of the Dragon

Readings from *Nature* on the Chinese Fossil Record

Edited by Henry Gee

With a Foreword by Zhe-xi Luo
256 pages, 30 halftones, 42 line drawings, 24 tables
Paper \$30.00

Evolutionary Patterns

Growth, Form, and Tempo in the Fossil Record

Edited by Jeremy B. C. Jackson, Scott Lidgard, and Frank K. McKinney

344 pages, 54 halftones, 62 line drawings
Paper \$30.00

Forthcoming in 2002

Landscapes and Labscapes

Exploring the Lab-Field Frontier in Biology
Robert E. Kohler

Tangled Trees

Phylogeny, Cospeciation, and Coevolution

Edited by Roderic D. M. Page



Notes

A LANDMARK PUBLISHING EVENT IN EVOLUTION

ENCYCLOPEDIA OF EVOLUTION

2-VOLUME SET

Visit our
booth

Editor in Chief: Mark Pagel, University of Reading

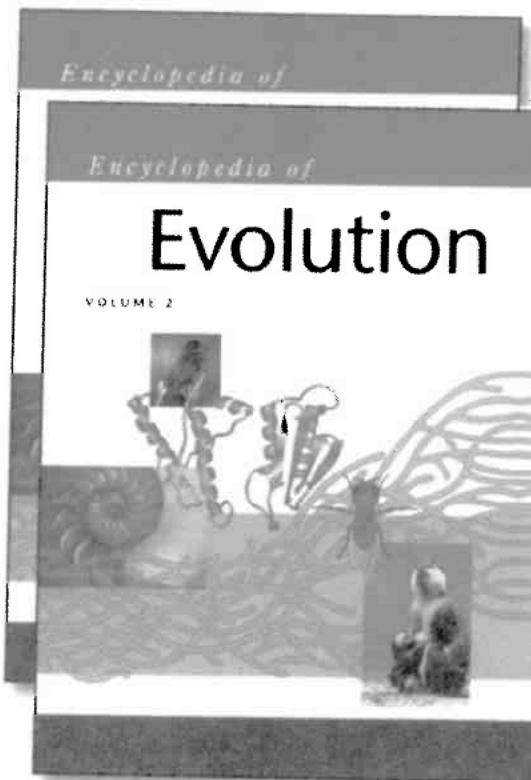
No understanding of the world around us and our place within it can be complete without an understanding of evolution. It has informed our comprehension of the origin and differentiation of species, of natural selection, and of genetic inheritance, and it has played an essential role in such diverse fields as psychology, sociology, linguistics, medicine, anthropology, economics, and philosophy.

The *Encyclopedia of Evolution* offers not only the best current scholarship in evolutionary biology but also a vivid picture of how the field is itself evolving. The 365 multifaceted entries range from Darwin and natural selection to DNA transcription and translation, from the Cambrian explosion to human origins and behavior, from prokaryotes and eukaryotes to artificial life. Essential topics given detailed attention include the history of evolutionary thought, molecular evolution and genetics, cell and developmental biology, the history and diversity of life, biogeography, behavioral ecology and social evolution, human evolution and diversity, mathematical models, and non-biological applications of evolutionary concepts. The *Encyclopedia* also summarizes the often volatile controversies that have surrounded the field since its inception.

Hundreds of experts from around the world have contributed to this outstanding new resource.

Featuring nine overview essays from leaders in the field

- History of Evolutionary Thought, David L. Hull
- The Major Transitions in Evolution, John Maynard Smith
- Macroevolution, Stephen Jay Gould
- Culture in Chimpanzees, Jane Goodall and Elizabeth Vinson Lonsdorf
- Human Genetic and Linguistic Diversity, Luca Cavalli-Sforza
- Motherhood, Sarah Blaffer Hrdy
- Darwinian Medicine, Stephen C. Stearns
- Genomics and the Dawn of Proteomics, M. J. Bishop
- The New Replicators, Daniel Dennett



Order now and save 20%

0-19-512200-3, \$260 until October 15, 2002 (regular price \$325). 1,326 pages, 258 halftones, line drawings, & maps.
For a complete list of articles and contributors, visit
www.oup-usa.org/reference/evolution

JUST PUBLISHED!

Oxford University Press
Dept. RAS
198 Madison Avenue
New York, NY 10016
Fax: 212-726-6442
Phone: 1-800-451-7556
www.oup-usa.org/reference/evolution

OXFORD
UNIVERSITY PRESS





Notes



AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES
The service organization for researchers and educators in biology

Join AIBS now and check out these great services and benefits!

Think big. Network with 250,000 other biologists, and beyond:

AIBS is "on the ground" in Washington, DC, working for its members on research, education, and public policy initiatives at the local, national, and international levels. We are a meta-level organization that collaborates with AIBS member societies and organizations as well as with other scientific associations. We report to AIBS members via *BioScience*, *AIBS News*, public policy and education news reports, and other outlets. Networking services to link AIBS members to each other include AIBS meetings, online directories, and e-mail reports.

Listen and be heard:

AIBS public policy staff write the *Washington Watch* column in *BioScience* and provide expert analyses of legislation and other developments while representing biologists' interests to policymakers, and vice versa; recent topics addressed include evolution education and research funding. AIBS education staff write the *Eye on Education* column in *BioScience* and have worked recently on textbook assessments and undergraduate curriculum reform.

Read BioScience:

A blend of peer-reviewed articles, feature stories, and reports written for researchers, K–16 teachers, and students alike, *BioScience* publishes every month and is ranked fifth out of 51 journals in

the Biology category of ISI's Journal Citation Report. Includes *AIBS News*, *Washington Watch*, and *Eye on Education*. Provided to all members, in print and online, as part of AIBS dues.

Attend annual meetings:

The AIBS Annual Meeting's unique new format since 2000 features a theme-driven program each year with plenary lectures by some of the world's most eminent biologists, combined with informal discussion sessions including the meeting attendees, plenary speakers, and other discussion leaders. Themes include biocomplexity (2001), evolution (2002), and bioethics (2003).

View online lectures in the AIBS Virtual Library:

Individual members of AIBS have **FREE** access to the AIBS Virtual Library of plenary lectures recorded at AIBS Annual Meetings from 2000 onwards. Presentations from the AIBS National Roundtable Series are also online. You can view synchronized audio, video, slides, and transcripts of the presentations. CD-ROMs of the recordings are available for purchase.

Find funding sources worldwide:

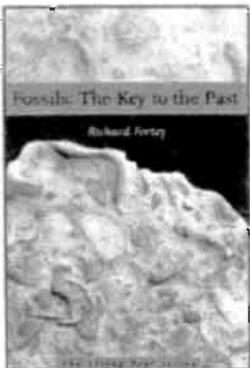
Individual members of AIBS have **FREE** access to the Community of Science Funding Opportunities online database, a daily compilation of more than 20,000 public and private grants and awards worldwide for science researchers, educators, and students.

**To join AIBS and access these and other services and products, go to
www.aibs.org**

Notes



Smithsonian Institution Press

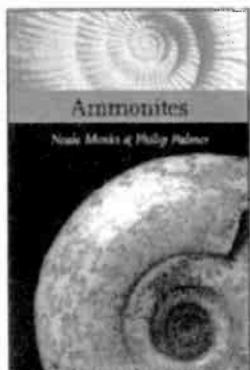


Fossils: The Key to the Past

Richard Fortey

This thorough introduction to the world of paleontology has been completely revised and updated, reflecting changes in the ways that fossils are viewed and interpreted. Using the fluid writing style that made *Trilobite! Eyewitness to Evolution* such a success, Dr. Fortey brings the study of fossils into the twenty-first century.

64 color, 98 b&w illustrations • 352 pp. • Hardcover \$55.00 • Paper \$27.50

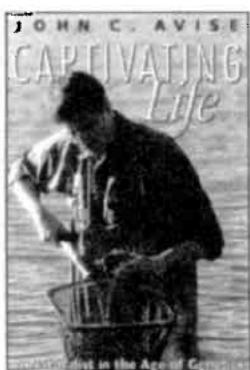


Ammonites

Neale Monks and Philip Palmer

The beautiful spiral shells of these long-extinct marine invertebrates are among the most sought after and recognizable of fossils, yet little has been published about ammonites outside of geological journals. Neale Monks and Philip Palmer look at the latest ideas on ammonite biology and ecology to present this detailed picture of a once diverse and widespread group of animals.

32 color, 68 b&w illustrations • 176 pp. • Hardcover \$50.00 • Paper \$24.95



Captivating Life

A Naturalist in the Age of Genetics

John C. Avise

"This is a rare scientific biography of high quality that crisscrosses the emerging lines of modern biology, valuable not only as a history of science but as an authoritative explanation of the science itself." —Edward O. Wilson

30 b&w illustrations • 224 pp. • Hardcover \$24.95



Primate Taxonomy

Colin Groves

"Groves's monumental book is the most comprehensive view of primate taxonomy published in decades."

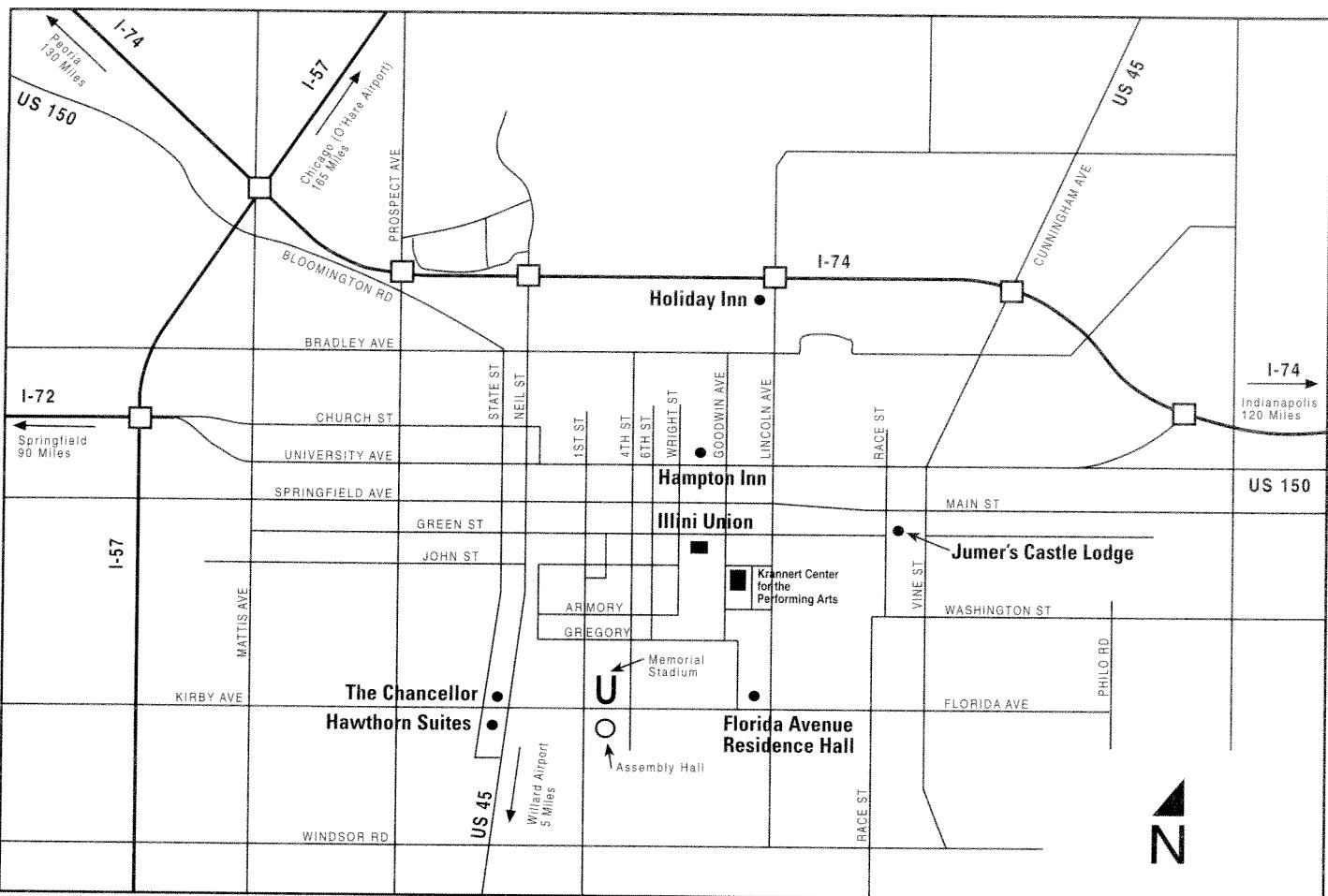
—Russell A. Mittermeier, Conservation International

350 pp. • Hardcover \$65.00

800-782-4612 • www.sipress.si.edu

Notes

Shuttle Service (watch for sign in bus window)



(45 minutes round trip)

Friday, June 28, 2002

10 am–6:30 pm

ROUTE 1: 1 bus running continuously from the Illini Union to Historic Lincoln (formerly Jumers), Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

6:30 pm–10 pm

ROUTE 1: 2 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

Saturday, June 29, 2002

6:30 am–10 am

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

12 pm–2 pm

ROUTE 1: 2 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 1 bus running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

4:30 pm–10 pm

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

Sunday, June 30, 2002

6:30 am–10 am

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

12 pm–2 pm

ROUTE 1: 2 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 1 bus running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

5:30 pm–10 pm

ROUTE 1: 3 buses running continuously from the Arboretum to Illini Union, Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 1 bus running continuously from the Arboretum to Illini Union, Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers..

Monday, July 1, 2002

6:30 am–10 am

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

12 pm–2 pm

ROUTE 1: 2 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 1 bus running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

4:30 pm–11:30 pm

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

Tuesday, July 2, 2002

6:30 am–10 am

ROUTE 1: 3 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 2 buses running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

12 pm–10 pm

ROUTE 1: 2 buses running continuously from the Illini Union to Jumers, Holiday Inn, Hampton Inn, The Chancellor, Hawthorn Suites, and Florida Avenue Residence Hall.

ROUTE 2: 1 bus running continuously from the Illini Union to Florida Avenue Residence Hall, Hawthorn Suites, The Chancellor, Hampton Inn, Holiday Inn, and Jumers.

JUNE 20-24, 2003

evolution
2003

www.evolution2003.org

CALIFORNIA STATE UNIVERSITY, CHICO

In Memoriam

Stephen Jay Gould

1941–2002



courtesy of Harvard Gazette

"I was lucky to wander into evolutionary theory, one of the most exciting and important of all scientific fields. I had never heard of it when I started at a rather tender age; I was simply awed by dinosaurs. I thought paleontologists spent their lives digging up bones and putting them together, never venturing beyond the momentous issue of what connects to what. Then I discovered evolutionary theory. Ever since then, the duality of natural history—richness in particularities and potential union in underlying explanation—has propelled me.

"I think that the fascination so many people feel for evolutionary theory resides in three of its properties. First, it is, in its current state of development, sufficiently firm to provide satisfaction and confidence, yet fruitfully undeveloped enough to provide a treasure trove of mysteries. Second, it stands in the middle in a continuum stretching from sciences that deal in timeless, quantitative generality to those that work directly with the singularities of history. Thus, it provides a home for all styles and propensities, from those who seek the purity of abstraction (the laws of population growth and the structure of DNA) to those who revel in the messiness of irreducible particularity (what, if anything, did *Tyrannosaurus* do with its puny front legs anyway?). Third, it touches all our lives; for how can we be indifferent to the great questions of genealogy: where did come from and what does it all mean? and then, of course, there are all those organisms: more than a million described species, from bacterium to blue whale, with one hell of a lot of beetles in between—each with its own beauty, and each with a story to tell."

—STEPHEN JAY GOULD, 1980.

