

Evolution 2000



Indiana University Bloomington Campus

Academic Campus Pedestrian Safety

..... Use lighted pedestrian routes, especially when walking home

24-hour access telephone

☎ Emergency telephone or pay phone (9-1-1 no coin needed)

Emergency facilities

🚓 IU Police Department

🚔 State Police Post

🚒 Fire Department

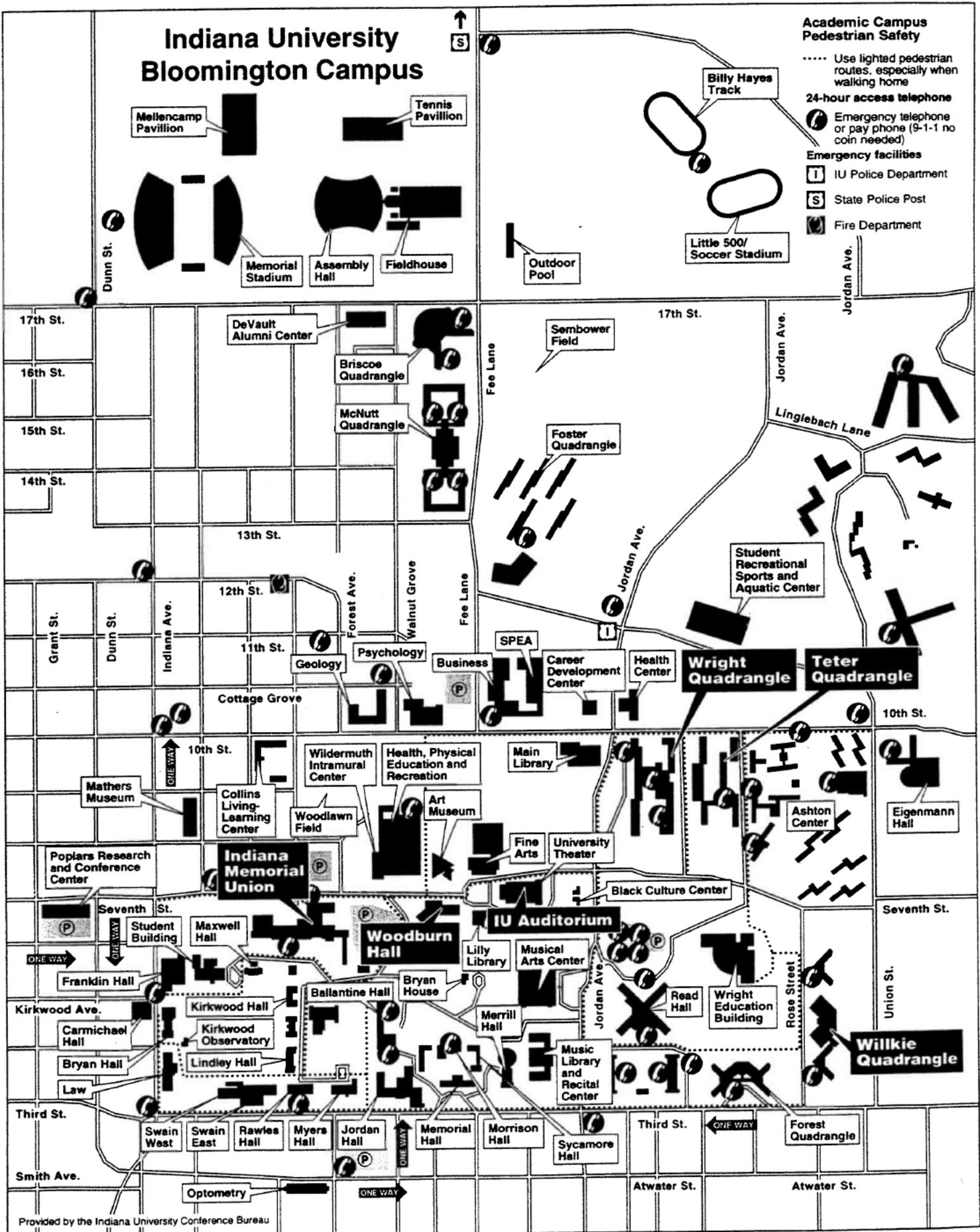


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ACKNOWLEDGEMENTS

We have enjoyed working to create this meeting for the past two years – ever since one of us got it into her head that we should hold it in Bloomington and the other enthusiastically agreed to be the head local organizer. The crazy thing is that now that we know how to do this better (having made mistakes along the way) it moves on to the group at Tennessee and many wheels are likely to be reinvented. We wish them well. If this meeting runs at all smoothly, it will be largely due to the highly professional, very cheerful group of people at Indiana University Conferences. Foremost among them are Judy Warner, Betty Watson, Kevin Knerr and Ryan Kirkendall. They kept us on task and had many great ideas to try to make this meeting a pleasant and productive experience. We literally could not have done this without them. We also want to thank others, which we will list below. We have introduced two new items to the meetings – a CD of posters and T-shirts. We'd be interested in hearing what you think of these.

Mike Wade and Lynda Delph, Local Organizers

Our thanks to:

Irene Eckstrand (NIH) and Craig Nelson (IU) – for working together to bring together our second annual Education Program and Pre-conference symposium on Teaching Evolution.

Butch Brodie, Keith Clay, Ellen Ketterson, Curt Lively, and Jeff Palmer (IU) – for various aspects of meeting organization.

Loren Rieseberg (IU) – for writing “A brief history of evolution at Indiana University” for inclusion on the meeting web page.

Meaghan Saur (IU) – for organizing the cadre of students working at registration and manning the AV equipment at the sessions.

Jeff Demuth (IU) – for putting together the designs for the T-shirts.

Steve Freedberg (IU) – for the great turtle picture on the logo.

General Information

The 2000 Joint Meeting of the Society for the Study of Evolution, The American Society of Naturalists, The Society of Systematic Biologists, and The Association of Tropical Biologists will be held on the beautiful campus of Indiana University in Bloomington, Indiana. On-site registration, general sessions, poster sessions and receptions will be held at the Memorial Union and the Indiana University Auditorium. Concurrent sessions will take place in various locations near to these two buildings. The annual Meeting Banquet is being held in the Alumni Hall of the Memorial Union on the evening of Monday, June 26, 2000. A picnic dinner and dance party are also planned. A reception will be held on the evening of Friday, June 23, 2000 at the Indiana University Auditorium.

EXHIBITORS - BOOK PUBLISHERS

The Book Publishers Exhibit will be in the Georgian Room on the 1st floor of the Indiana Memorial Union. The area is convenient to many of the Evolution 2000 sessions. Please take some time and visit the displays from many of the most active and distinguished publishers in evolutionary and systematic biology.

Exhibit hours are: Saturday, June 24 12:00 Noon - 6:00 P.M.
 Sunday, June 25 10:00 A.M. - 6:00 P.M.
 Monday, June 26 10:00 A.M. - 6:00 P.M.
 Tuesday, June 27 10:00 A.M. - 2:00 P.M.

Academic Press

BeakerWare

Blackwell Science, Inc.

CSIRO Publishing

Grove's Dictionaries

Harvard University Press

The Johns Hopkins University Press

Missouri Botanical Garden Press

Organization for Tropical Studies, Inc.

Oxford University Press

Prentice Hall

Princeton University Press

Sinauer Associates, Inc

Smithsonian Institution Press

Taylor & Francis

Think Tank Graphics

University of Basel Press

University of Chicago Press

SPONSOR

The organizers gratefully acknowledge the financial support of **Taylor & Francis** as the sponsor of the Evolution 2000 Opening Reception.

WELCOME TO BLOOMINGTON

Bloomington and Monroe County offer a huge variety of attractions and activities that are sure to please every visitor, young or old! We have art, cultural, and historical museums, eclectic art galleries, and historical Indiana sites to visit. Spend the afternoon in one of our wineries, relax on one of the lake shores, or just walk around the campus of Indiana University.

In this "Things to Do" section, you'll find information on Bloomington and Indiana University, including the bustling downtown, thriving arts and entertainment scene, and shopping, dining options, brewpubs, wineries and orchards. You'll also find information on museums, landmarks, historical sites and Indiana University. There's something for everyone in Bloomington and Monroe County.

Things to Do

Downtown

The Downtown Square, referred to as the heart of the community, is graced with one of the area's most beautiful buildings. The Monroe County Courthouse, built in 1902, is still an active part of government with several of the county offices located there. Step inside and view the stained glass dome, and don't forget to wave at the fish on the top!

The downtown area encompasses 11 blocks and boasts a wide array of specialty shops, restaurants and the majority of the area's live music clubs. Over 175 businesses thrive downtown and include art galleries, cooking shops, clothing for men and women, athletic stores, music, and book stores. Several times throughout the year local entertainers perform during the lunch time to entertain shoppers.

Be sure and venture into Fountain Square, located just south of the courthouse. The enclosed mall, containing galleries, clothing stores and specialty shops is the result of a two-year effort in restoring many of the downtown buildings to their original grandeur. A covered sky walk provides easy access to the covered parking garage on Fourth Street. Another renovation is the Antique Mall. This former grocery building has become an antique lovers' haven. Three stories and over 100 dealers provide an endless trail of varied antiques. Open daily, the Antique Mall is a definite must when visiting downtown.

Bloomington Antique Mall
311 West Seventh Street
812-332-2290

Find hidden treasures in the largest antique mall in southern Indiana. Over 100 dealers under one roof. Hours: Mon. - Sat. 10 a.m. - 5 p.m., Sun. noon - 5 p.m.

Monroe County Courthouse

Located in the center of downtown, this imposing 1908 limestone structure is typical of the architecture and history of early Monroe County. Hours: Mon. - Fri. 8 a.m. - 4 p.m.

Farmer's Market

Shows Common at Seventh and Morton Streets

The market offers a tantalizing array of locally grown flowers, fresh fruits and vegetables, juices, honey, apple butter, spices and much more! Saturday mornings and Tuesday evenings during the growing season: May through October.

Museums

Indiana University Art Museum
Fine Arts Plaza, East Seventh Street
812-855-5445

Ranked among the nation's best, the IU Art Museum holds more than 35,000 objects, including paintings by such artists as Picasso and Monet. Artworks of the Western World from Byzantine to modern times, Asian and Ancient art, the art of Africa and the Pacific and the Pre-Columbian Americas are all well represented at the museum. The building was designed by the world-renowned architect, I.M. Pei. Hours: Wed. - Sat. 10 a.m. - 5 p.m., Sun. noon - 5 p.m. Free.

Lilly Library
Fine Arts Plaza
East Seventh Street
812-855-2452

This internationally known rare book library contains more than 400,000 books, more than 6 million manuscripts and 130,000 pieces of sheet music and compositions. Exhibits vary throughout the year. On permanent exhibit is the Gutenberg Bible (printed before 1456), as well as the Coverdale Bible of 1535 (the first bible printed in English), John James Audubon's 'Birds of America' prints, plus many other historical documents. Exhibit hall Hours: Mon. - Fri. 9 a.m. - 6 p.m., Sat. 9 a.m. - 1 p.m., closed Sun. Tours available every Friday at 2 p.m. or by appointment. Free.

Mathers Museum
416 North Indiana Avenue
812-855-6873

World cultures are featured in changing exhibits that reflect the diversity of the museum's collections. Over 20,000 artifacts from across the world provide the foundation for museum exhibits. Call 812-855-MUSE for exhibit info. Hours: Tues. - Fri. 9 a.m. - 4:30 p.m. Sat. - Sun. 1 p.m. - 4:30 p.m. Free.

Monroe County Historical Museum
202 East Sixth Street
812-332-2517

Located in the historic Carnegie Library, the museum features permanent and changing exhibits on Monroe County history. Special programs throughout the year. Hours: Tues. - Sat. 10 a.m. - 4 p.m. Sun. 1 p.m. - 4 p.m. Closed Mon. Free.

WonderLab
116 W. Sixth Street
812-337-1337

Explore and learn about the world of science. 25 exhibits featuring science demonstrations and hands-on activities provide fun for children of all ages. Hours: Saturdays 10 a.m. - 5 p.m., Thursdays 3-5 p.m. and during the week by reservation to school and community groups. For information please call 812-337-1337 or visit <http://www.wonderlab.org>.

Wylie House
317 East Second Street
812-855-6224

Built in 1835 as the home of Andrew Wylie, first president of Indiana University, this stately brick house is on the National Register of Historic Places and is now a museum recreating the early Wylie home. The house is handicap accessible from the east drive. Tour hours: Tuesday - Saturday 1 p.m. - 4 p.m., March through November. Free.

Night Spots (near campus)

Bear's Place

1316 East Third Street
339-3460

Full menu, comedy night every Monday, live jazz & blues, avant garde films.

The Bluebird

216 North Walnut Street
Concert Line 336-BIRD or 336-3984

Bloomington's Rock n' Roll tradition for 26 years. The Bird has charm, character and classic features matched by few. The place for live music entertainment.

The Brewpub at Lennie's

1795 East Tenth Street
332-2112

Open daily, featuring hand-crafted ales served fresh from the source, full menu.

Cappucino's

301 East Third Street
333-2326

Daily coffee specials, pastries, baguettes, smoking and non-smoking rooms.

Crazy Horse

214 West Kirkwood Avenue
336-8877

Full menu, music, TV, over 82 different beers from around the world.

Encore Cafe

316 West Sixth Street
333-7312

Coffee bar, gourmet desserts, eclectic atmosphere, free Jazz on Sunday evenings.

Irish Lion

212 West Kirkwood Avenue
336-9076

Authentic Irish pub, traditional Irish music, food and drink, draught by the yard & 1/2 yard glass.

Kilroy's Sports Bar

319 North Walnut Street
333-6006

Appetizers, pool tables, basketball, outdoor sand volleyball, video games, big screen TVs.

Mars Nightclub

419 North Walnut Street
Concert Line 336-MARS or 332-0402

The premier dance club in southern Indiana. The best in recorded dance music and known for attracting large national touring concerts. 15,000 watts of sounds & 100,000 watts of lighting.

Nick's

423 East Kirkwood Avenue
332-4040

An IU sports tradition, drinks by the pound, full menu, big screen TV, pool tables, live jazz on Sunday.

Scholar's Inn Gourmet Cafe and Wine Bar

801 North College Avenue
332-1892

This restored 150-year-old historic mansion provides a perfect place to enjoy wine, dinner and dessert. With its dual fireplaces and huge outdoor deck, it is a great setting for any time of the year.

Second Story

Fourth and College Avenue (upstairs)
336-CLUB

Live music, dance floor, best alternative music in town, specializes in original music.

Trojan Horse

100 East Kirkwood Avenue
332-1101

Authentic Greek eatery with great gyros, souvlaki, Greek salads and dinner & drink specials.

Yogi's Grill & Bar

519 East Tenth Street
323-9644

Full menu including barbeque items, outside eating area, pool tables, TVs.

Calendar of Events in Bloomington

Friday, June 23

Twilight Arts Concerts at Third St. Park. Fridays only from 7-8:30 p.m. Call 812-349-3700 for more information.

Saturday, June 24

Farmer's Market, Free, 6am-12noon, at the Showers Common, Seventh and Morton Street.

Lee Greenwood in Concert \$18, 6-9:30 p.m. at the Little Nashville Opry. Call for tickets and information, 812-988-2235.

"How Sweet the Sound" Gospel Concert at Ninth St. Park. FREE! Call for information, 349-3700.

Hilltop Garden- Garden Walk Tickets and information, 812-339-4018.

Sunday, June 25

Hilltop Garden- Garden Walk Tickets and information, 812-339-4018.

Dining Guide

Bloomington, Indiana

Casual & Fine Dining

Applebee's 2894 E. 3 rd St. 336-9147 \$-\$\$	The City Grille 216 S. College \$\$	Janko's Little Zagreb 223 W. 6 th St. 332-0694 \$\$-\$\$\$	Mancino's Pizza 916 N. College 333-1197 \$-\$\$
Aver's Pizza 1837 N. Kinser 339-6555 \$\$	Colorado Steakhouse 1800 N. College 339-9979 \$\$-\$\$\$	Jimmy John's Deli 430 E. Kirkwood 1827 E. 10 th \$	Me Oh My O's Downtown on Square 323-0303 \$-\$\$
The Bakehouse 125 N. College 331-6029 \$-\$\$	Crazy Horse 214 W. Kirkwood 336-8877 \$-\$\$	Joe's Restaurant 1711 N. College 332-8015 \$\$	Mother Bear's Pizza 1428 E. 3 rd St. 332-4495 \$\$
Bear's Place 1316 E. 3 rd St. 339-3460 \$\$	Dagwood's 116 ½ S. Indiana 333-3000 \$	Johnny Angel's 830 W. 17 th St. 332-4646 \$	Mustard's 300 S. College Mall Rd. 334-3344 \$-\$\$
Big Daddy's Pizza 403 E. 10 th St. 333-8868 \$\$	Denny's 2160 N. Walnut 336-7694 \$-\$\$	Kilroy's 502 E. Kirkwood 339-3006 \$	Nick's English Hut 423 E. Kirkwood 332-4040 \$-\$\$
Bloomington Bagel Co. 113 N. Dunn 1430 E. 3 rd \$	Dog-N-Suds 333 N. Jacobs Dr. 336-5762 \$	Ladyman's 122 E. Kirkwood 336-5577 \$	Noble Roman's Pizza Various Locations 339-9756 \$\$
Bob Evans 3233 Whitehall Pk. 334-2515 \$-\$\$	Einstein Bros. Bagels 530 E. Kirkwood 331-9888 \$	Laughing Planet 322 E. Kirkwood 332-2233 \$	O'Charley's 360 Jacob Drive 333-6687 \$\$
Brave New Deli 412 E 3 rd St. 334-4180 \$	Encore Café 316 W. 6 th St. 333-7312 \$\$	Lennie's 1795 E. 10 th St. 323-2112 \$-\$\$	Opie Taylor's 212 N. Walnut 333-7287 \$-\$\$
Buffa Louie's 711 W. 17 th St. 333-3030 \$-\$\$	Fazoli's 315 S. College Mall Rd. 332-3566 \$-\$\$	Limestone Grille 2920 E. Covenanter 335-8110 \$\$-\$\$\$	Outback Steakhouse 3201 W. 3 rd St. 330-1018 \$\$-\$\$\$
BW-3 Grill 430 E. Kirkwood 332-9474 \$	The Gables 114 S. Indiana 323-1950 \$-\$\$	Loaf & Ladle 320 W. 8 th St. 334-3500 \$	Papa John's 1310 N. College 1400 E. 3 rd \$\$
Café Django 116 N. Grant 335-1297 \$-\$\$	The Golden Corral 116 Franklin Road 336-0701 \$-\$\$	Luca Pizza College Mall 336-5773 \$\$	Peterson's 1811 E. 10 th St. 336-5450 \$-\$\$
Café Pizzeria 405 E. Kirkwood 332-2111 \$-\$\$	Hinkle's Hamburgers 206 S. Adams 339-3335 \$	Macri's Deli 1221 College Mall Rd. 333-0606 \$-\$\$	Pizza Express 1791 E. 10 th St. 332-3500 \$\$
Chapman's 300 S.R. 446 337-9999 \$\$-\$\$\$	Howie's Bagels 2620 E. 3 rd St. 333-3090 \$	Mad Mushroom Pizza 2620 E. 10 th St. 330-3278 \$\$	Pizza Hut Various Locations 334-2300 \$\$
Chili's 2811 E. 3 rd St. 334-0535 \$\$	IMU - various venues 900 E. 7 th Street 856-6381 \$	Malibu Grill 106 N. Walnut 332-4334 \$\$	Ponderosa 525 S. Walnut 332-2639 \$\$

Rockit's Famous Pizza
222 N. Walnut
336-7625 \$\$

Red Lobster
2617 E. 3rd St.
332-9721 \$\$\$-\$\$\$

Rib Cage
813 N. Walnut
332-0136 \$-\$\$

Runcible Spoon
412 E. 6th St.
334-3997 \$-\$\$

Schlotzky's Deli
3002 E. 3rd St.
331-7365 \$

**Scholar's Inn
Gourmet Café/Wine**
717 N. College
335-1490 \$\$

Shoney's
123 Franklin Rd.
336-2030 \$-\$\$

Stefano's Café
021 Fountain Square
331-0575 \$

Texas Roadhouse
110 Franklin Road
323-1000 \$\$

Tina's Cuisine
309 E. 3rd St.
332-0464 \$\$

Trojan Horse
100 E. Kirkwood
332-1101 \$-\$\$

Upland Brewing Co.
350 W. 11th St.
336-2337 \$-\$\$

Uptown Café
102 E. Kirkwood
339-0900 \$\$\$-\$\$\$

Village Deli
409 E. Kirkwood
336-2303 \$-\$\$

Yogi's Bar & Grill
519 E. 10th St.
323-9644 \$-\$\$

Asian

Beijing Chinese
220 W. Williamsburg 1
332-5867 \$-\$\$

China Café Express
531 N. Walnut
333-1077 \$-\$\$

Domo Japanese
1500 E. 3rd St.
\$-\$\$

Dragon Express
1400 E. 3rd St.
331-7030 \$\$

Ekimae
825 N. Walnut
334-1661 \$\$

The Great Wall
2038 N. Walnut St.
339-6666 \$-\$\$

Little Tibet
415 E. 4th St.
331-0122 \$-\$\$

Mark Pi's China Gate
3020 E. 3rd St.
323-1688 \$\$

Mikado's
895 S. College Mall Rd.
333-1950 \$\$

New China Buffet
2616 E. 3rd
339-3388 \$-\$\$

Panda Palace
430 E. Kirkwood
332-8699 \$-\$\$

Phoenix Dumpling
307 E. 3rd St.
333-5262 \$-\$\$

Seoul Garden
2522 E. 10th St.
332-9985 \$\$

Siam House
430 E. 4th St.
331-1233 \$\$

Snow Lion (Tibetan)
113 S. Grant
336-0835 \$-\$\$

Yen Ching
1143 College Mall Rd.
334-1334 \$-\$\$

Italian

Flora Ristorante
620 W. 5th St.
339-8430 \$\$\$

Grisanti's
850 Auto Mall Rd.
339-9391 \$\$

Puccini's
420 E. 4th St.
333-5522 \$\$\$-\$\$\$

MEXICAN

Chi-Chi's
2550 E. 3rd St.
333-1781 \$\$

La Bamba
520 E. Kirkwood
332-5970 \$

La Charreada
1720 N. Walnut
332-2343 \$\$

La Rosa
416 E. 4th St.
332-8962 \$\$

La Torre
1155 S. College Mall Rd
336-5339 \$\$

Tortilla Flat
501 N. Walnut
330-1212 \$-\$\$

MISC.

Irish Lion
212 W. Kirkwood
336-9076 \$-\$\$

Le Petite Café
308 W. 6th St.
334-9747 \$\$

The Red Sea
404 E. 4th St.
331-8366 \$-\$\$

Mario's
2652 E. 10th St.
332-3047 \$\$

Princess Restaurant
206 N. Walnut
336-8831 \$\$

Samira Restaurant
100 W. 6th St.
331-1187 \$\$

Sangamar
110 N. Walnut
335-8487 \$\$

Shanti (Indian)
221 E. Kirkwood
333-0303 \$-\$\$

KEY



\$ =
Inexpensive

\$\$ =
Average

\$\$\$ =
Above Average

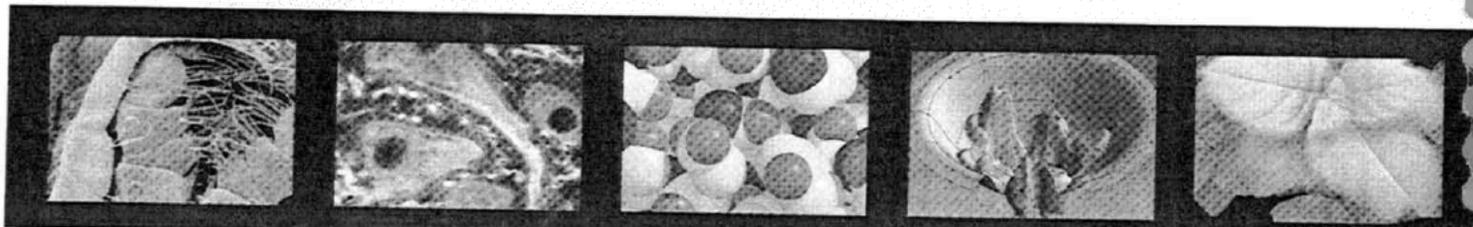
For a list of fast food venues or other restaurants in the surrounding area, please consult the local yellow pages.

Encyclopedia of Life Sciences

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The most ambitious single reference source ever produced in the biological sciences

Launching in Spring 2001, *Encyclopedia of Life Sciences* will be the largest single reference source ever published in the biological sciences, and is available for online subscription now in a preview format called "Embryonic" *Encyclopedia of Life Sciences*.



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MOLECULAR BIOLOGY
NEUROSCIENCE
PLANT SCIENCE
SCIENCE AND SOCIETY
STRUCTURAL BIOLOGY
VIROLOGY

Welcome and necessary*—New books...

Evolutionary Genetics

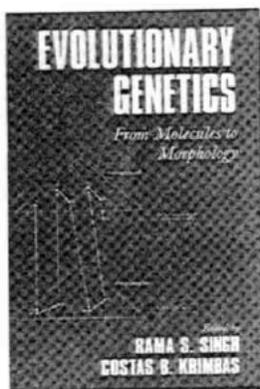
From Molecules to Morphology

R. S. Singh and

C. B. Krimbas, Editors

This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology.

2000 720 pp.
0-521-57123-5 Hardback \$95.00



Simulating Ecological and Evolutionary Systems in C

William G. Wilson

This book models a diverse range of biological processes and systems by simulating large collections of interacting individuals using the programming language C.

2000 320 pp.
0-521-77228-1 Hardback \$85.00
0-521-77658-9 Paperback \$29.95

Hominoid Evolution and Climatic Change in Europe

Volume 1: The Evolution of Neogene Terrestrial Ecosystems in Europe

Jorge Agustí, Lorenzo Rook, and Peter Andrews, Editors

This book provides evidence for the past climatic history of Europe and the Mediterranean, in relation to hominoid evolution.

1999 528 pp.
0-521-64097-0 Hardback \$100.00

Development, Function and Evolution of Teeth

Mark Teaford, Moya Meredith Smith, and Mark W. J. Ferguson, Editors

The contributors discuss the latest research linking genes, molecules and developmental mechanisms within an evolutionary framework.

2000 328 pp.
0-521-57011-5 Hardback \$100.00

Migration and Colonization in Human Microevolution

Alan G. Fix

By focusing on migration as a process rather than on its genetic consequences, the book provides a bridge between biological and social science studies of migration, genetic microevolutionary theory, and longer term human evolution.

1999 354 pp.
0-521-59206-2 Hardback \$69.95

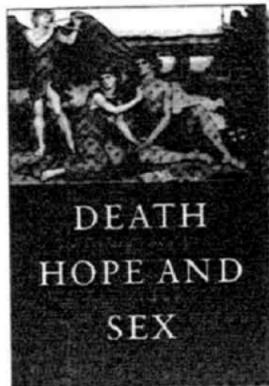
Death, Hope and Sex

Steps to an Evolutionary Ecology of Mind and Morality

James S. Chisholm

Death, Hope and Sex uses life history and attachment theory to construct a model of human nature in which critical features are understood in terms of the development of alternative reproductive strategies.

1999 310 pp.
0-521-59281-X Hardback \$74.95
0-521-59708-0 Paperback \$29.95



Now in paperback...

The Origin of Animal Body Plans

A Study in Evolutionary Developmental Biology

Wallace Arthur

1997 352 pp.
0-521-55014-9 Hardback \$80.00
0-521-77928-6 Paperback \$32.95

Now in paperback...

Molecular Evolution and Adaptive Radiation

Thomas J. Givnish and Kenneth J. Sytsma, Editors

"...a welcome and necessary development..."

—The Quarterly Review of Biology*

1997 638 pp.
0-521-57329-7 Hardback \$115.00
0-521-77929-4 Paperback \$39.95

Sex and Gender in Paleopathological Perspective

Anne L. Grauer and Patricia Stuart-Macadam, Editors

This book synthesizes modern medical research with paleopathological investigations.

1999 204 pp.
0-521-62090-2 Hardback \$54.95

Human Growth in the Past

Studies from Bones and Teeth

Robert D. Hoppa and Charles M. FitzGerald, Editors

Human Growth in the Past brings together the two related fields of dental and skeletal growth into a single volume whose purpose is to place methodological issues of growth and development in past populations within a strong theoretical framework.

1999 333 pp.
0-521-63153-X Hardback \$74.95

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Call toll-free 800-872-7423 Web site: www.cup.org
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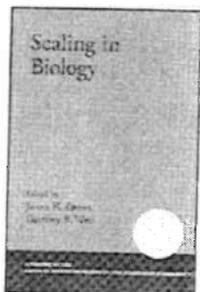
THE CHIMPANZEES OF THE TAI FOREST

Behavioural Ecology and Evolution

Christophe Boesch and Hedwige Boesch-Achermann

The authors undertook an incredible observational study of a group of wild chimpanzees of the Tai forest in Cote D'Ivoire, spending some fifteen years in the West African jungle with them. This fascinating book is the result of these years of painstaking research among the chimps: documenting Chimpanzee behavior in all its impressive diversity and variety. Aggression, territoriality, social structure and relationships, reproductive strategies, hunting, tool use - each of these is given its own chapter, along with topics such as chimp intelligence, life histories, and demography.

2000 320 pp.; 22 halftones, 30 line figs.
paper \$39.50/ cloth \$95.00



SCALING IN BIOLOGY

Edited by James H. Brown and Geoffrey B. West

This book is the first general treatment of scaling in biology in over 15 years, covering a broad spectrum of the most relevant topics in a series of chapters written by experts in the field. Some of the topics discussed include allometry and fractal structure, branching of vascular systems of mammals and plants, biomechanical and life history of plants, invertebrates and vertebrates, and species-area patterns of biological diversity.

(Santa Fe Institute Studies on the Sciences of Complexity)

2000 368 pp.; 91 b/w illus.
paper \$35.00/ cloth \$65.00

MOSAIC EVOLUTION OF SUBTERRANEAN MAMMALS

Regression, Progression, and Global Convergence

Eviatar Nevo

"... The reader will find not only an up-to-date overview of subterranean mammals and their evolutionary problems, but also detailed information and references to general aspects of sensory and behavioural ecology, morphology, physiology, genetics and immunogenetics. ... It is richly illustrated, and there are more than 1,800 entries in both the index and the well-balanced bibliography. The book is a 'must' for all students of subterranean mammals, and will be very useful to evolutionary biologists." —*Nature*.

2000 512 pp.; 18 halftones, 59 line illus.
\$175.00

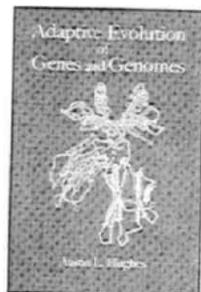
THE GENETICAL THEORY OF NATURAL SELECTION

A Complete Variorum Edition

R. A. Fisher and Edited with a foreword and notes by J. H. Bennett

This is the definitive edition of R.A. Fisher's classic work—probably the best known book in evolutionary biology after Darwin's *Origin of Species*. Based on the original 1930 edition, the book incorporates the many changes Fisher made for the second edition as well as unpublished material taken from Fisher's own copy.

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ADAPTIVE EVOLUTION OF GENES AND GENOMES

Austin L. Hughes

This book thoroughly examines adaptive evolution at the DNA level and takes a comprehensive look at the research being done in the area, making it ideal for researchers and graduate students in evolutionary biology and for a wider audience of functional biologists.

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The Kluane Project

Edited by Charles J. Krebs, Stan Boutin, and Rudy Boonstra

This book describes the Kluane Boreal Forest Ecosystem Project which operated from 1986 to 1996 in the southwestern Yukon. The details of the experiment's set up are presented, the three trophic levels of plants, the herbivores, and the predators are examined and the findings are synthesized in a model of the boreal forest vertebrate community to provide an overview of what they have discovered and what remains to be done.

February 2001 512 pp.; 209 line illus.
\$95.00

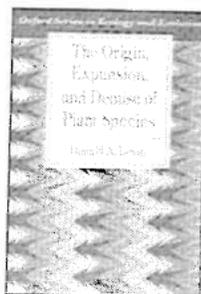
NEUROSPORA

Contributions of a Model Organism

Rowland H. Davis

This book will serve as the definitive reference work on the basic physiology, biochemistry, development, genetics, and molecular biology of *Neurospora*, together with a description of basic laboratory methods. It reviews early research since 1927 and describes the current state of the major research programs now being pursued. Each chapter includes detailed literature references for the scholar and experimentalist.

June 2000 320 pp.; 17 halftones, 81 line illus.
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Donald A. Levin

This book provides a thoughtful and original reassessment of our understanding of plant speciation and extinction, by one of the leading workers on plant evolution. It is suitable for use in seminars mostly in departments of botany or plant sciences, and should also be read by workers interested in speciation mechanisms and ecological succession at the community and landscape levels. (Oxford Series in Ecology and Evolution)

2000 240 pp.; 37 b/w line illus.
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Masatoshi Nei and Sudhir Kumar

This book presents various statistical methods that are easily accessible to those studying molecular evolution. The text covers measurement of sequence divergence, construction of phylogenetic trees, statistical tests for detection of positive Darwinian selection, inference of ancestral amino acid sequences, construction of linearized trees, and analysis of allele frequency data. Emphasis is given to practical methods of data analysis, and methods can be learned by working through numerical examples using the computer program MEGA2 that is provided.

July 2000 336 pp.; 73 line illus.
paper \$45.00/ cloth \$85.00

MEAT-EATING AND HUMAN EVOLUTION

Edited by Craig B. Stanford and Henry T. Bunn

(Human Evolution Series)

2001 303 pp.; 5 halftones, 67 line illus.
\$85.00

EPISTASIS AND THE EVOLUTIONARY PROCESS

Jason B. Wolf, Edmund D. Brodie, III, and Michael J. Wade

This book is an overview of non-additive evolutionary genetics, integrating all work to date on all levels of evolutionary investigation of the importance of epistasis in the evolutionary process in general. It includes a historical perspective on this emerging field, in-depth discussion of terminology, discussions of the effects of epistasis at several different levels of biological organization and combinations of theoretical and experimental approaches to analysis.

August 2000 368 pp.; 83 line illus.
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EVOLUTION

AN INTRODUCTION

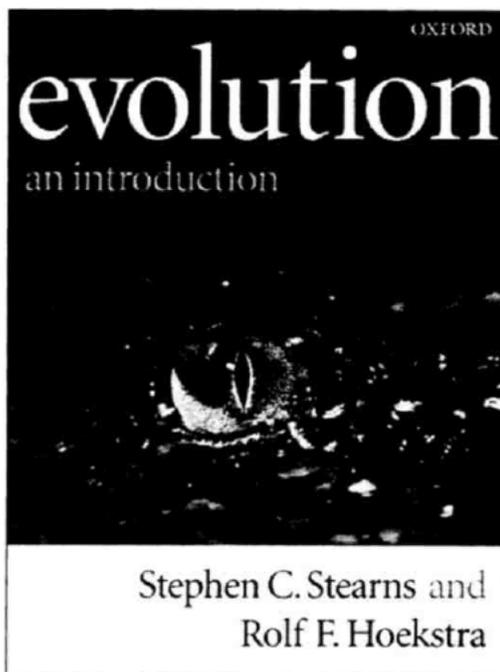
Stephen C. Stearns and Rolf F. Hoekstra

Evolution: An Introduction takes a fresh approach to examining essential and exciting topics in evolutionary biology. Concise and focused, it concentrates on fundamental concepts, illustrating them with examples, and presents complex and stimulating ideas in simple language. This accessible introduction examines classical topics such as population genetics and natural selection and gives an overview of recent advances in hot areas such as sexual selection, genetic conflict, life history evolution, and phenotypic plasticity. Running summaries in the margins, chapter summaries, and links between chapters help guide students through the book and enliven the reading experience.

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Notice to Session Chairs, Speakers and Poster Presenters

Paper Session Chairs:

Please arrive early to your session. Review your audio-visual equipment. A room monitor should be present to run the equipment. At the start of your session, **announce the rules**: 1) Speakers have a **total of 15 minutes**, including question. 2) The Chair will warn speakers at 12 minutes by a hand signal; and will further warn them by **standing up** at 14 minutes. The speaker will be politely but firmly cut off at 15 minutes. No questions will be taken if the 15 minutes have elapsed – please prevent the speaker from taking questions in this case. Enforce these rules. Do not get ahead of schedule; if there is a cancellation, wait until the scheduled time to begin the next talk.

Speakers:

Please check the schedule to find the time and place of your talk. There may have been changes. Please arrive at your session early, with your slides pre-loaded into the slide carousel. Identify yourself to the Session Chair before the session begins. Note especially that the time allotted to you includes the question period – help the Session Chair keep to the program schedule! The Maple Room in the Indiana Memorial Union will be available if you need to preview your slides. **NOTE:** If the session chair is *not* present, we ask that the **first** speaker assume that role. Thank you!

Poster Presenters:

Numbered poster boards are installed in the Indiana University Auditorium building. Each poster is allotted a 4' x 4' space. Please tack up your poster in the proper space between **noon and 4:00 pm on Friday, June 23rd**, or between **noon and 1:00 pm on Saturday, June 24th**. Posters may be left up for the remainder of the meeting or may be removed anytime after 5:00 pm on Sunday, June 25th. Poster authors are required to stand by their posters during one of the main poster-viewing sessions, held from 1:00 – 5:00 pm on Saturday and Sunday, and attendance at the other poster-viewing session is encouraged but not required. Note that refreshments will be served from 2:30 – 5:00 pm both days to encourage participation in the viewing of posters.

**Evolution 2000
SCHEDULE AT A GLANCE**

Times	Fri, June 23	Sat, June 24	Sun, June 25	Mon, June 26	Tues, June 27
7:30-8AM		Coffee available in Grand Foyer, IU Auditorium	Coffee available in Grand Foyer, IU Auditorium	Coffee available in Grand Foyer, IU Auditorium	Coffee available in Grand Foyer, IU Auditorium
8-10AM		REGISTRATION IU Auditorium 7:30-5pm SYMPOSIUM 1A SSE: Genetics of Adaptation 8-10 CONTRIBUTED PAPERS Sessions 1-6 8-10	SYMPOSIUM 3A SSB and ATB: Biodiversity: the Interface between Systematics and Conservation 8-10 CONTRIBUTED PAPERS Sessions 25-30 8-10	SYMPOSIUM 5A SSB: Applied Evolution 8-10 CONTRIBUTED PAPERS Sessions 49-54 8-10	SYMPOSIUM 7A ATB: Coevolution and Speciation in Passion-Vine Butterflies 8:30-10 CONTRIBUTED PAPERS Sessions 73-78 8-10
10-10:30AM		Break refreshments served in Grand Foyer, IU Auditorium	Break refreshments served in Grand Foyer, IU Auditorium	Break refreshments served in Grand Foyer, IU Auditorium	Break refreshments served in Grand Foyer, IU Auditorium
10:30-Noon		SYMPOSIUM 1B SSE: Genetics of Adaptation 10:30-noon CONTRIBUTED PAPERS Sessions 7-12 10:30-noon	SYMPOSIUM 3B SSB and ATB: Biodiversity: the Interface between Systematics and Conservation 10:30-noon CONTRIBUTED PAPERS Sessions 31-36 10:30-noon	SYMPOSIUM 5B SSB: Applied Evolution 10:30-11:30 CONTRIBUTED PAPERS Sessions 55-60 10:30-noon	SYMPOSIUM 7B ATB: Coevolution and Speciation in Passion-Vine Butterflies 10:30-noon CONTRIBUTED PAPERS Sessions 79-84 10:30-noon
Noon-1:15PM	REGISTRATION IU Auditorium 12:00-8:00 Joint SSE/ASN/SSB Coordinating Council Meeting Persimmon Room Noon-2:00	Lunch SSE/ASN/SSB Individual Editorial Board Meetings Noon-1:15 Irene Eckstrand NIH Discussion Solarium Noon-1:00	Lunch Scheiner, Lyons, Courtney, Mckitrick What's doing at NSF? State Room East Noon-1:00	Lunch	

**Evolution 2000
SCHEDULE AT A GLANCE**

Times	Fri, June 23	Sat, June 24	Sun, June 25	Mon, June 26	Tues, June 27
1:15-3PM	SSE Workshop Teaching evolution to undergraduates 1-5:00 Individual SSE/ASN/SSB Council Meetings 2:15-5:00	SYMPOSIUM 2A ASN Vice Presidential Symposium: Ecological Genetics of Speciation 1:15-3pm CONTRIBUTED PAPERS Sessions 13-18 1:15-3pm Poster Session I IU Auditorium 1-5pm Poster Refreshments 2:30-5pm	SYMPOSIUM 4A ASN Young Investigators and Dohzhansky Prize Symposium 1:15-3pm CONTRIBUTED PAPERS Sessions 37-42 1:15-3pm Poster Session II IU Auditorium 1-5pm Poster Refreshments 2:30-5pm	SYMPOSIUM 6A SSB: Major evolutionary radiations: Evidence from the fossil record and comparative biology 1:00-3:30pm! CONTRIBUTED PAPERS Sessions 61-66 1:15-3pm	
3-3:30PM		Break	Break	Break	
3:30-5PM	REGISTRATION IU Auditorium 12:00-8:00 (continues)	SYMPOSIUM 2B ASN Vice Presidential Symposium: Ecological Genetics of Speciation 3:30-5pm CONTRIBUTED PAPERS Sessions 19-24 3:30-5pm	SYMPOSIUM 4B ASN Young Investigators and Dohzhansky Prize Symposium 3:30-4:30pm CONTRIBUTED PAPERS Sessions 43-48 3:30-4:45pm	SYMPOSIUM 6B SSB: Major evolutionary radiations: Evidence from the fossil record and comparative biology 3:30-5pm CONTRIBUTED PAPERS Sessions 67-72 3:30-5pm	
5-6PM	REGISTRATION IU Auditorium 12:00-8:00	ASN Address IU Auditorium Robert Holt 5:15-6:15		SSE Presidential Address IU Auditorium Michael Lynch 5:15-6:15	
6-10PM	REGISTRATION IU Auditorium 12:00-8:00 Opening Reception IU Auditorium 6:00-9:00	Dance Party Alumni Hall-IMU 8:00-11:30	Picnic Supper Pic-A-Chic Farm 6:00-9:00 Picnic buses load at 10 minute intervals: Departing: 5:30-6:30 Returning: 8:00-9:00	Reception Alumni Hall-IMU 6:30 Banquet 7:00 Award Ceremony 8:15	

SCHEDULE OF SESSIONS

SESSION	TOPIC	TIME	LOCATION
1A	GENETICS OF ADAPTATION	SAT 8-10	WHITTENBERGER
1	CONSERVATION	SAT 8:15 - 10	STATE ROOM EAST
2	THR POPL GEN: POPL STRUCTURE	SAT 8-10	ALUMNI HALL
3	SPECIATION GENETICS	SAT 8-10	SOLARIUM
4	HOST-PARASITE INTERACTION	SAT 8:15-10	WOODBURN HALL 120
5	SEXUAL SELECTION	SAT 8:15-10	AUDITORIUM-3RD FLR
6	SOCIAL EVOLUTION	SAT 8-10	FRANGIPANI ROOM
1B	GENETICS OF ADAPTATION	SAT 10:30-12	WHITTENBERGER
7	CONSERVATION	SAT 10:30-12	STATE ROOM EAST
8	THEOR MOLEC EVOL	SAT 10:30-12	ALUMNI HALL
9	PHYLOGENY: VERTEBRATES	SAT 10:30-12	SOLARIUM
10	HOST-PARASITE INTERACTION	SAT 10:30-12	WOODBURN HALL 120
11	DEVELOPMENT AND EVOLUTION	SAT 10:30-12	AUDITORIUM-3RD FLR
12	SOCIAL EVOLUTION	SAT 10:30-12	FRANGIPANI ROOM
2A	ASN VICE-PRESIDENTIAL SYMPOSIUM	SAT 1:15-3	WHITTENBERGER
13	CONSERVATION	SAT 1:15-3	STATE ROOM EAST
14	MOLECULAR POPULATION GENETICS AND ADPATION	SAT 1:15-3	ALUMNI HALL
15	PHYLOGENY: VERTEBRATES	SAT 1:15-3	SOLARIUM
16	PHENOTYPIC PLASTICITY AND GXE	SAT 1:30-3	WOODBURN HALL 120
17	DEVELOPMENT AND EVOLUTION	SAT 1:15-3	AUDITORIUM-3RD FLR
18	PHYLOGEOGRAPHY/BIOGEOGRAPHY	SAT 1:30-3	FRANGIPANI ROOM
2B	ASN VICE-PRESIDENTIAL SYMPOSIUM	SAT 3:30-5	WHITTENBERGER
19	BEHAVIORAL ECOLOGY	SAT 3:30-5	STATE ROOM EAST
20	MOLECULAR POPULATION GENETICS	SAT 3:30-4:45	ALUMNI HALL
21	PHYLOGENY: INVERTEBRATES	SAT 3:15-5	SOLARIUM

22	HOST-PARASITE INTERACTION	SAT 3:30-5	WOODBURN HALL 120
23	DEVELOPMENT AND EVOLUTION	SAT 3:30-5	AUDITORIUM-3RD FLR
24	PLANT REPRODUCTIVE BIOLOGY	SAT 3:30-5	FRANGIPANI ROOM
	ASN ADDRESS (ROBERT HOLT)	SAT 5:15-6:15	AUDITORIUM
3A	BIODIVERSITY	SUN 8-10	AUDITORIUM
25	SEXUAL SELECTION	SUN 8-10	SOLARIUM
26	INTERACTION AND COEVOLUTION	SUN 8-10	AUDITORIUM-3RD FLR
27	GENOME EVOLUTION	SUN 8-10	OAK ROOM
28	PLANT POLL INTERACTIONS	SUN 8-10	STATE ROOM EAST
29	PHYLOGEOGRAPHY/BIOGEOGRAPHY	SUN 8-10	ALUMNI HALL
30	LIFE HISTORY EVOLUTION	SUN 8-10	WHITTENBERGER
3B	BIODIVERSITY	SUN 10:30-12	AUDITORIUM
31	INBREEDING AND INBREEDING DEPRESSION	SUN 10:30-12	OAK ROOM
32	INTERACTION AND COEVOLUTION	SUN 10:30-12	AUDITORIUM-3RD FLR
33	PHYLOGENY: VERTEBRATES	SUN 10:30-12	SOLARIUM
34	THEOR GEN. AND POPULATION GENETIC STRUCTURE	SUN 10:30-12	STATE ROOM EAST
35	PHYLOGEOGRAPHY/BIOGEOGRAPHY	SUN 10:30-11:45	ALUMNI HALL
36	SELECTION, ADAPTATION, GEOGRAPHIC VARIATION	SUN 10:30-12	FRANGIPANI ROOM
4A	YNG. INVEST. AND DOHZHANSKY PRIZE	SUN 1:15-3	WHITTENBERGER
37	SEXUAL SELECTION MATING SYSTEMS	SUN 1:15-3	STATE ROOM EAST
38	HYBRID ZONES	SUN 1:15-3	AUDITORIUM-3RD FLR
39	PHYLOGENY: VERTEBRATES	SUN 1:30-3	SOLARIUM
40	MOLECULAR EVOLUTIONARY GENETICS	SUN 1:30-3	ALUMNI HALL
41	DEVELOPMENT AND EVOLUTION	SUN 1:30-3	OAK ROOM
42	SELECTION, ADAPTATION, GEOGRAPHIC VARIATION	SUN 1:15-3	UNIVERSITY CLUB
4B	YNG. INVEST. AND DOHZHANSKY PRIZE	SUN 3:30-5	WHITTENBERGER
43	PHYLOGENY RECONSTRUCT. & COMP.: THEORY	SUN 3:30-5	OAK ROOM

44	HYBRID ZONES	SUN 3:30-5	AUDITORIUM-3RD FLR
45	PHYLOGENY: VERTEBRATES	SUN 3:30-4:45	SOLARIUM
46	MOLECULAR EVOLUTIONARY GENETICS	SUN 3:30-5	ALUMNI HALL
47	PHYLOGEOGRAPHY/BIOGEOGRAPHY	SUN 3:30-4:45	STATE ROOM EAST
48	LIFE HISTORY EVOLUTION	SUN 3:30-5	UNIVERSITY CLUB
5A	SSB: APPLIED EVOLUTION	MON 8-10	WHITTENBERGER
49	PHENOTYPIC PLASTICITY AND GXE	MON 8-10	STATE ROOM EAST
50	THEOR QUANT GENET	MON 8-10	AUDITORIUM-3RD FLR
51	SPECIATION GENETICS	MON 8:15-10	SOLARIUM
52	COMM ECOL & TROP BIO	MON 8 - 10	OAK ROOM
53	PHYLOGENY: INVERTEBRATES	MON 8-10	AUDITORIUM
54	PLANT REPRODUCTIVE BIOLOGY	MON 8:15-10	FRANGIPANI ROOM
5B	SSB: APPLIED EVOLUTION	MON 10:30-12	WHITTENBERGER
55	PHYLOGENY RECONSTR. AND COMPAR.: THEORY	MON 10:30-12	STATE ROOM EAST
56	MOLECULAR EVOLUTIONARY GENETICS	MON 10:30-11:45	AUDITORIUM-3RD FLR
57	SPECIATION GENETICS	MON 10:30-12	SOLARIUM
58	COMM ECOL & TROP BIO	MON 10:30-12:15	OAK ROOM
59	PHYLOGENY: INVERTEBRATES	MON 10:30-12:15	AUDITORIUM
60	PLANT REPRODUCTIVE BIOLOGY	MON 10:30-12	FRANGIPANI ROOM
6A	SSB: MAJOR EVOLUTIONARY RADIATIONS	MON 1:00-3:30	AUDITORIUM
61	SEXUAL SELECTION MATING SYSTEMS	MON 1:30-3	OAK ROOM
62	EVOL OF SEX	MON 1:15-3	STATE ROOM EAST
63	SPECIATION GENETICS	MON 1:45-3	WHITTENBERGER
64	PHYLOGENY RECONSTRUC. & COMPARISON: THEORY	MON 1:15-3	UNIVERSITY CLUB
65	PHYLOGENY: VERTEBRATES	MON 1:15-3	AUDITORIUM-3RD FLR
66	PLANT REPRODUCTIVE BIOLOGY	MON 1:30-3	FRANGIPANI ROOM
6B	SSB: MAJOR EVOLUTIONARY RADIATIONS	MON 3:30-5	AUDITORIUM

67	EXPERIMENTAL EVOLUTIONARY GENETICS	MON 3:30-5	OAK ROOM
68	EVOL OF SEX	MON 3:30-5	STATE ROOM EAST
69	THEOR GENETICS AND POP. GENETIC STRUCTURE	MON 3:30-5	AUDITORIUM-3RD FLR
70	PHYLOGENY RECONSTRUCT. & COMPARISON: THEORY	MON 3:30-5	UNIVERSITY CLUB
71	PHYLOGENY: INVERTEBRATES	MON 3:30-5	WHITTENBERGER
72	PHYLOGENY: PLANTS	MON 3:30-5	FRANGIPANI ROOM
	SSE PRESIDENTIAL ADDRESS (M. LYNCH)	MON 5:15-6:15	AUDITORIUM
7A	ATB: COEVOLUTION AND SPECIATION	TUES 8:30-10	SOLARIUM
73	PREDATOR-PREY INTERACTIONS	TUES 8:30-10	OAK ROOM
74	SEXUAL SELECTION FEMALE CHOICE	TUES 8-10	AUDITORIUM-3RD FLR
75	GENOME EVOLUTION	TUES 8:00-9:45	WHITTENBERGER
76	PHYLOGENY: PLANTS	TUES 8-10:15	ALUMNI HALL
77	THEOR GENETICS AND POP. GENETIC STRUCTURE	TUES 8-10	AUDITORIUM
78	LIFE HISTORY EVOLUTION	TUES 8-10	STATE ROOM EAST
7B	ATB: COEVOLUTION AND SPECIATION	TUES 10:30-11:45	SOLARIUM
79	PHYLOGENY RECONSTRUCT. & COMPARISON: THEORY	TUES 10:30-11:45	OAK ROOM
80	SEXUAL SELECTION FEMALE CHOICE	TUES 10:30-12	AUDITORIUM-3RD FLR
81	MOLECULAR EVOLUTIONARY GENETICS	TUES 10:45-11:30	WHITTENBERGER
82	PLANT POLL INTERACTIONS	TUES 10:30-12	ALUMNI HALL
83	THEOR GENETICS AND POP. GENETIC STRUCTURE	TUES 10:30-12	AUDITORIUM
84	INBREEDING AND INBREEDING DEPRESSION	TUES 10:30-12	STATE ROOM EAST

SCIENTIFIC PROGRAM

Oral Presentation Schedule

Saturday, June 24

SYMPOSIUM 1A GENETICS OF ADAPTATION SAT 8:15 - 10 WHITTENBERGER AUDITORIUM

Organized by R. Mauricio

- | | |
|------|---|
| 8:15 | Introduction, R. Mauricio |
| 8:30 | "The theory of adaptation."
H. A. Orr |
| 9:00 | "The genetic basis of <i>Drosophila sechellia</i> 's adaptation to its host, <i>Morinda citrifolia</i> ."
C. Jones |
| 9:30 | "Pollinator preference and the evolution of floral traits in <i>Mimulus</i> ."
D. Schemske |

SESSION 1 CONSERVATION SAT 8:15 - 10 STATE ROOM EAST

- | | | |
|-----|------|--|
| 1.1 | 8:15 | "Evaluating the taxonomic status of the Great White Heron using behavioral and genetic data" (*)
H. McGuire |
| 1.2 | 8:30 | "Life history and population biology of rare plants in isolated wetlands of the Southeastern US"
A. Edwards*, A. Weakley |
| 1.3 | 8:45 | "Examination of genetic structure and gene flow in wild populations of Morelet's crocodiles (<i>Crocodylus moreletii</i>) from Belize, Central America "
J. Dever |
| 1.4 | 9:00 | "Population Genetics and Paleodispersal of the Orangutan"
C. Muir |
| 1.5 | 9:15 | "Spatial genetic structure in a fragmented metapopulation of <i>Echinacea angustifolia</i> ."
S. Wagenius |
| 1.6 | 9:30 | "Habitat fragmentation, species concepts and conservation: a case history of <i>Speyera idalia</i> (Nymphalidae)."
B. Williams |
| 1.7 | 9:45 | "Large Scale Mating System Dynamics of <i>Cornus florida</i> in the Missouri Ozarks"
V. J. Apsit |

Key to Symbols used in the program:

- * After the author's name, indicates the presenting author, when more than one is listed.
- ! After the author's name, indicates that the author is currently seeking a job.
- (*) After the title, indicates a candidate for the SSB Mayr Award.
- (AG) After the title, indicates a candidate for the ATB AI Gentry Best Student Paper Award.

Oral Presentations

Saturday, June 24

SESSION 2 THR POPL GEN: POPL STRUCTURE

SAT 8-10

ALUMNI HALL

-
- | | | |
|-----|------|---|
| 2.1 | 8:00 | "The role of epistasis in the formation of multiple adaptive peaks"
M. Dickerson |
| 2.2 | 8:15 | "MESA: Investigating Evolution and Extinction via Simulation"
P-M. Agapow! |
| 2.3 | 8:30 | "Fixing beneficial alleles in metapopulations"
M. Whitlock |
| 2.4 | 8:45 | "When sinks become sources: adaptation and gene flow in a patchy world"
O. Ronce |
| 2.5 | 9:00 | "Wright is right: Ecological realism in isolation by distance models"
D. Karpa-Wilson |
| 2.6 | 9:15 | "Inference of population structure using multi-locus genotype data."
J. Pritchard |
| 2.7 | 9:30 | "Balancing selection in subdivided populations"
C. Muirhead |
| 2.8 | 9:45 | "Hot spots, cold spots, and the geographic mosaic theory of coevolution"
R. Gomulkiewicz |

SESSION 3 SPECIATION GENETICS

SAT 8-10

SOLARIUM

-
- | | | |
|-----|------|--|
| 3.1 | 8:00 | "Genetics of Speciation & Adaptation in <i>Nasonia</i> "
J. Werren |
| 3.2 | 8:15 | "The genetics of postzygotic reproductive isolation in <i>Mimulus</i> : a test of alternative hypotheses"
L. Fishman |
| 3.3 | 8:30 | "Transgressive character expression in a hybrid sunflower species "
A. E. Schwarzbach |
| 3.4 | 8:45 | "Sympatric speciation in nature: fact or fiction? The case of Lake Apoyo cichlids."
T. Hrbek |
| 3.5 | 9:00 | "Molecular Evidence for Reproductive Isolation Between Two Sympatric Trophic Morphs of San Salvador Pupfish (<i>Cyprinodon</i>). "
B. J. Turner*, T. M. Bunt, D. Duvernell, C. Holtmeier, M. Barton |
| 3.6 | 9:15 | "Variation in mate recognition systems in cactophilic <i>Drosophila</i> "
W. J. Etges |
| 3.7 | 9:30 | "Selection versus gene flow: Rapid speciation with developmentally regulated phenotypes"
N. Johnson |
| 3.8 | 9:45 | "Models of Cohesion Mechanisms: The Relative and Absolute Strength of Reproductive Isolation and Ecological Differentiation"
K. Chan |

Oral Presentations

Saturday, June 24

SESSION 4 HOST-PARASITE INTERACTION SAT 8:15-10 WOODBURN HALL 120

- 4.1 8:15 "The effects of nest mites on the breeding biology of the house finch"
A. Stoehr*, P. M. Nolan, G. E. Hill, K. J. McGraw
- 4.2 8:30 "The role of cell wall degrading enzymes in plant-pathogen arms races"
J. Bishop
- 4.3 8:45 "Clonal variation in infection level and seed set of *Euthamia graminifolia* (Asteraceae) infected by the rust fungus (*Coleosporium solidaginis*)"
J. Price
- 4.4 9:00 "Optimal foraging: The perspective of a clonal parasite"
C. Binder
- 4.5 9:15 "An Evolutionary Definition of Virulence and Its Underlying Components"
M. Gilchrist
- 4.6 9:30 "Among host genetic differentiation of dove lice."
K. P. Johnson*, D. M. Brown, R. J. Adams, D. H. Clayton
- 4.7 9:45 "Evolution of Symbiotic Nitrogen-Fixation in Spatially Structured Populations of *Rhizobium*"
J. Bever

SESSION 5 SEXUAL SELECTION SAT 8:15-10 AUDITORIUM-3RD FLR

- 5.1 8:15 "Evolutionary responses to experimental removal of sexual selection."
S. Pitnick
- 5.2 8:30 "Increasing sperm competition causes evolution of large sperm in the nematode *C. elegans*"
C. LaMunyon
- 5.3 8:45 "FEMALE CLUTCH SIZE AND LIFETIME MATING SUCCESS OF MALES ARE POOR INDICATORS OF REALIZED FITNESS IN A TREE HOLE DAMSELFLY"
O. Fincke
- 5.4 9:00 "The cost of sexually-selected weapons: new evidence that beetle horn expression reduces the relative sizes of eyes, wings, and antennae."
D. Emlen
- 5.5 9:15 "Extended phenotypic effects of testosterone in a male bird and potential consequences for females of a correlated response to sexual selection on males"
E. Ketterson
- 5.6 9:30 "Elaboration or Innovation in Sexual Selection?"
J. A. Endler
- 5.7 9:45 "The evolution of male mate choice in insects: a synthesis of ideas and evidence"
R. Bonduriansky

SESSION 6 SOCIAL EVOLUTION SAT 8-10 FRANGIPANI ROOM

- 6.1 8:00 "Anarchistic honey bees: An important model system for studying the evolution of worker sterility in social insects"
O. Ben
- 6.2 8:15 "Were Nectar-Robbing and Generalization in Host-Plant Use Factors in the Evolution of Sociality in Bees?"
S. Richardson!
- 6.3 8:30 "Population genetic structure and mating system of the introduced wasp *Vespula germanica* in Australia."
M. Goodisman
- 6.4 8:45 "The effects of ecological constraints on polygyny in Argentine ants, *Linepithema humile*."
K. K. Ingram
- 6.5 9:00 "Colony organization and behavior of the eusocial shrimp *Synalpheus regalis*"
J. E. Duffy
- 6.6 9:15 "Genetic variation for behavior expression and its implications for social evolution in tent caterpillars"
J. T. Costa
- 6.7 9:30 "Molecular phylogeny of tent caterpillars and relatives (Lepidoptera: Lasiocampidae)"
D. A. Gotzek
- 6.8 9:45 "Ant-tending influences soldier production in a social aphid"
A. Shingleton

SYMPOSIUM 1B GENETICS OF ADAPTATION SAT 10:30-12 WHITTENBERGER AUDITORIUM

Organized by R. Mauricio

- 10:30 "The genetic basis of floral traits associated with mating system evolution in *Linanthus*."
C. Goodwillie
- 11:00 "Ecological genetics of plant resistance traits."
R. Mauricio
- 11:30 "Quantitative trait loci affecting a model life history character in *Drosophila*."
T. Mackay

SESSION 7 CONSERVATION SAT 10:30-12 STATE ROOM EAST

- 7.1 10:30 "Phylogeography, population genetics, and conservation of the Hawaiian damselflies *Megalagrion xanthomelas* and *M. pacificum*"(*)
S. Jordan
- 7.2 10:45 "An Examination of a Reintroduced Metapopulation of Eastern Collared Lizard (*Crotaphytus collaris collaris*) in a Managed Landscape on the Ozark Plateau."
R. Robertson
- 7.3 11:00 "Conservation and biogeography of plants of the Guiana Shield: An analysis using data from checklists of florulas."
H. D. Clarke

Oral Presentations**Saturday, June 24**

- 7.4 11:15 "Ecotoxicological experiments on cryptic species of harpacticoid copepods"
A. Rocha-Olivares
- 7.5 11:30 "Sex-biased gene flow in eider ducks: inferences from molecular markers with contrasting modes of inheritance"
K. Scribner
- 7.6 11:45 "Translocation and Outbreeding Depression in the subshrub *Lotus scoparius*"
A. Montalvo

SESSION 8 THEOR MOLEC EVOL SAT 10:30-12 ALUMNI HALL

- 8.1 10:30 "Detecting local signatures of genetic hitchhiking along a chromosome"
Y. Kim
- 8.2 10:45 "Allele age and a test for selection on individual alleles"
M. Slatkin
- 8.3 11:00 "The effect of multilocus selection on linked neutral variability"
A. Navarro
- 8.4 11:15 "Estimation of Recombination Rate Under Genetic Hitchhiking"
D. A. Vasco
- 8.5 11:30 "Gene Genealogies in Spatially Continuous Population: Coalescent Theory and Isolation by Distance"
F. Depaulis
- 8.6 11:45 "Microsatellites can be misleading: an empirical and simulation study"
F. Balloux

SESSION 9 PHYLOGENY: VERTEBRATES SAT 10:30-12 SOLARIUM

- 9.1 10:30 "The evolution and phylogeography of the African forest elephant(*)"
L. Eggert!
- 9.2 10:45 "Molecules untangle the basal divergences of the placental mammals."
O. Madsen*, W. de Jong, M. Springer, D. Kao, R. DeBry, C. Douady, M. Stanhope
- 9.3 11:00 "Molecular Systematics of Orders of Placental Mammals"
R. Adkins
- 9.4 11:15 "A molecular perspective on the evolution of echolocation and flight in bats."
E. Teeling
- 9.5 11:30 "Comparative genomics and molecular systematics: A phylogeny of the Mustelidae (Mammalia: Carnivora) based on universal mammalian sequence-tagged sites (*)"
K-P. Koepfli
- 9.6 11:45 "An examination of marsupial interordinal relationships from a multi-gene perspective."
H. Amrine

Oral Presentations

Saturday, June 24

SESSION 10 HOST-PARASITE INTERACTION SAT 10:30-12 WOODBURN HALL 120

- 10.1 10:30 "Parasite phylogeny and historical associations: a consideration of the limitations of parasite data for inferring host phylogeny and biogeography"
B. R. Moore
- 10.2 10:45 "Fitness costs and benefits and associated gene regulation in the induced Systemic Acquired Resistance (SAR) pathway."
A. Heidel*, J. Clarke, X. Dong, J. Antonovics
- 10.3 11:00 "Genetic variation for resistance among Arabidopsis ecotypes"
P. Kover
- 10.4 11:15 "The importance of allelopathy in mediating competition between naturally co-occurring bacterial strains"
G. Krukonis
- 10.5 11:30 "Population dynamical consequences of sexual reproduction"
T. Flatt
- 10.6 11:45 "Genetic variance against parasites"
P. Schmid-Hempel

SESSION 11 DEVELOPMENT AND EVOLUTION SAT 10:30-12 AUDITORIUM-3RD FLR

- 11.1 10:30 "Testing the vulnerability of the phylotypic stage: on modularity and evolutionary conservation"
F. Galis
- 11.2 10:45 "Structural Constraint in the Function and Evolution of the Drosophila Testes-Specific Tubulin Beta2 "
M. Nielsen
- 11.3 11:00 "Phylogeny of Medusozoa, as indicated by complete 18S rDNA sequences (AG)"
A. G. Collins!
- 11.4 11:15 "GENIC PATTERNING OF THE RADIAL ECHINODERM CENTRAL NERVOUS SYSTEM AND EVOLUTION OF THE ECHINODERM BODY PLAN"
E. Popodi
- 11.5 11:30 "The role of heterochrony in primate brain evolution"
S. Rice
- 11.6 11:45 "THE INDEPENDENT ORIGIN OF AN ARTHROPOD COMPOUND EYE IS DEFINED BY A RECENT OPSIN GENE RECRUITMENT (*)"
T. Oakley

SESSION 12 SOCIAL EVOLUTION SAT 10:30-12 FRANGIPANI ROOM

- 12.1 10:30 "Kin selection and egg dumping in lace bugs."
M. Loeb

Oral Presentations**Saturday, June 24**

- 12.2 10:45 "Sex investment in a social insect: assessing the roles of kin selection and resource abundance"
W. D. Brown
- 12.3 11:00 "Altruism and social cheating in the social amoeba, *Dictyostelium discoideum*"
D. Queller
- 12.4 11:15 "Cooperation and nonlinear dynamics: disentangling the effects of ecology and relatedness in the evolution of sociality"
L. Aviles
- 12.5 11:30 "The evolution of cooperation and forgiveness in structured populations"
D. Haskell
- 12.6 11:45 "Sex ratio conflict and worker production in the eusocial Hymenoptera"
M. Reuter

SYMPOSIUM 2A ASN VICE PRESIDENTIAL SYMPOSIUM SAT 1:15-3 WHITTENBERGER AUDITORIUM

ECOLOGICAL GENETICS OF SPECIATION, Organized by S. Via

- 1:15 Introduction, S. Via
- 1:30 "The genetics of reproductive isolation: a retrospective and prospective look, with comments on ground crickets."
D. Howard, D. Hampton
- 2:00 "The roles of natural and sexual selection in the fission and fusion of species."
M. Kirkpatrick, V. Ravigne, I. Olivieri
- 2:30 "Hybrid zones and the genetics of species barriers in annual sunflowers."
L. Rieseberg

SESSION 13 CONSERVATION SAT 1:15-3 STATE ROOM EAST

- 13.1 1:15 "High population variability at an MHC locus in an estuarine fish"
S. Cohen
- 13.2 1:30 "Detection of reduction in population size using data from microsatellite loci."
C. Garza
- 13.3 1:45 "Detecting recent population reductions using microsatellite markers."
E. Williamson
- 13.4 2:00 "High resolution analysis of mating systems: inbreeding in natural populations of Monterey pines"
C. Vogl

Oral Presentations

Saturday, June 24

- 13.5 2:15 "Genetic heterogeneity of spatially separated pollen pools in shortleaf pine, *Pinus echinata* (Mill.): Implications for gene flow."
R. Dyer
- 13.6 2:30 "Molecular evolution of Scleractinian diversity: How panmictic are coral populations of the Western Atlantic?"
E. Severance
- 13.7 2:45 "Demographic stochasticity - when is it important for evolution?"
G. Fox

SESSION 14 MOLECULAR POPULATION GENETICS AND ADAPTATION SAT 1:15-3 ALUMNI HALL

- 14.1 1:15 "Tedious Details of Microarrays for Evolutionary Analysis"
M. Oleksiak
- 14.2 1:30 "Null evolutionary models: Using the codon-degeneracy model and expected distributions of physicochemical properties in studies of molecular evolution."
D. McClellan
- 14.3 1:45 "Selecting models of DNA substitution (*)"
D. Posada
- 14.4 2:00 "Are weak phenotypic effects of knock-out mutations really caused by redundant gene functions?"
A. Wagner
- 14.5 2:15 "Visualizing Molecular Evolutionary Signal Conflicts on Protein Structures."
K. Vander Velden*, Kent Vander Velden, Olivier Fedrigo, Dean C. Adams and Gavin J. P. Naylor
- 14.6 2:30 "Evidence for hitch-hiking in African populations of *Drosophila melanogaster*"
P. Andolfatto
- 14.7 2:45 "Impact of recombination rate and mating system on DNA polymorphism in the genus *Lycopersicon*"
E. Baudry

SESSION 15 PHYLOGENY: VERTEBRATES SAT 1:15-3 SOLARIUM

- 15.1 1:15 "Did independent adaptation to riverine habitats allowed survival of ancient cetacean lineages?"
I. Cassens
- 15.2 1:30 "Phylogeny of cetaceans determined by insertions of SINEs: The monophyly of toothed whales and the paraphyly of river dolphins"
N. Okada
- 15.3 1:45 "The Power of Phylogeny: Adaptive Differences in Cardiac Metabolism"
D. Crawford
- 15.4 2:00 "Phylogenetic evidence for adaptive radiation in the darter genus *Percina* (Perciformes: Percidae) (*)"
T. Near

Oral Presentations

Saturday, June 24

- 15.5 2:15 "Phylogenetic relationships and biogeography of cichlid fishes, with emphasis on the endemic Malagasy genera"
J. Sparks
- 15.6 2:30 "Evolution and Systematics of the Marine Fish Family Carangidae Based on Complete Cytochrome b DNA Sequences (*)"
D. Reed*, M. deGravelle
- 15.7 2:45 "Molecular phylogenetic relationships among the Neotropical thorny catfishes (Siluriformes, Doradidae) "
G. Moyer

SESSION 16 PHENOTYPIC PLASTICITY AND GXE SAT 1:30-3 WOODBURN HALL 120

- 16.1 1:15 "Does exposure to UV radiation affect selection on plant morphology and leaf pigment levels?"
C. Weinig
- 16.2 1:30 "Phenotypic plasticity and the evolution of warning coloration"
G. Sword
- 16.3 1:45 "Genetic variation for growth rates and the integration of phenotypic plasticity"
D. Thompson
- 16.4 2:00 "Genetic architecture of plasticity to cues and resources in *Arabidopsis thaliana*"
L. Dorn!
- 16.5 2:15 "Plasticity and evolution of stem-leaf allometry"
K. Preston
- 16.6 2:30 "An unknown study of natural selection: Clausen, Keck and Hiesey's *Potentilla* experiments"
C. Schlichting
- 16.7 2:45 "Mortality risk associated with rapid weight gain."
L. Higgins

SESSION 17 DEVELOPMENT AND EVOLUTION SAT 1:15-3 AUDITORIUM-3RD FLR

- 17.1 1:15 "A genome-wide linkage map to study the genetic basis of evolution in threespine sticklebacks (*Gasterosteus aculeatus*)"
C. Peichel*, D. Schluter, D. Kingsley
- 17.2 1:30 "Fluctuating asymmetry in the Glanville fritillary butterfly (*Melitaea cinxia*)."
C. Breuker*, I. Hanski, P. Brakefield
- 17.3 1:45 "Developmental genetics of morphological integration: a morphometric study of patterning genes in *Drosophila* wings"
C. P. Klingenberg
- 17.4 2:00 "Gonads and fitness in body-size mutants of *C. elegans*"
C. Lauren-Maatta

Oral Presentations

Saturday, June 24

- 17.5 2:15 "Evolution of Eye Regression in the Cavefish *Astyanax*"
W. Jeffery

- 17.6 2:30 "Evolution of polyphenic development and its consequences: rapid allometric divergence of male horn dimorphism between exotic populations of the polyphenic beetle *Onthophagus taurus* (Scarabaeidae)."
A. Moczek

- 17.7 2:45 "Predicting early developmental organization from measurements on the adult phenotype: a study with butterfly eyespots"
A. Monteiro

SESSION 18 PHYLOGEOGRAPHY/BIOGEOGRAPHY SAT 1:30-3 FRANGIPANI ROOM

- 18.1 1:30 "Phylogeography and bindin evolution in the sea urchin genus *Lytechinus*"
K. Zigler

- 18.2 1:45 "Indo-Pacific marine diversity: phylogenetic evidence supports a mosaic of mechanisms in both time and space"
C. Meyer

- 18.3 2:00 "Comparative Phylogeography of Highland Rodents in the Northern Rocky Mountains: a Preliminary Perspective"
J. Demboski

- 18.4 2:15 "Historical biogeography of /Malvaceae: Evidence from molecular clock analyses"
B. Whitlock!*, David Baum

- 18.5 2:30 "Phylogeography of a marine copepod: reduced interpopulation divergence at northern latitudes"
S. Edmands

- 18.6 2:45 "The larval dispersal paradox: abrupt genetic breaks and mosaic evolution of marine populations in Indonesia."
P. Barber

SYMPOSIUM 2B ASN VICE PRESIDENTIAL SYMPOSIUM SAT 3:30-5 WHITTENBERGER AUDITORIUM

ECOLOGICAL GENETICS OF SPECIATION, Organized by S. Via

- 3:30 "Floral isolation and the genetics of diversification in *Aquilegia*."
S. Hodges

- 4:00 "Divergence by sexual selection and the origin of species."
K. Shaw, Y. M. Parsons

- 4:30 "Genetics of ecological specialization and reproductive isolation in sympatric races of pea aphids."
S. Via, D. Hawthorne.

Oral Presentations

Saturday, June 24

SESSION 19 BEHAVIORAL ECOLOGY SAT 3:30-5 STATE ROOM EAST

- 19.1 3:30 "Population structure and nest-site fidelity in the highly-migratory colonial-nesting giant Amazonian river turtle (*Podocnemis expansa*) from Colombia"
N. Valenzuela
- 19.2 3:45 "Is there ecomorphological convergence between hummingbird subfamilies?"
R. Bleiweiss
- 19.3 4:00 "Behavioral drive versus behavioral restraint: on the role of behavior in evolution"
R. Huey
- 19.4 4:15 "The role of behavior in the evolution of morphology and ecology: clinging performance of the western fence lizard, *Sceloporus occidentalis*"
P. A. Zani
- 19.5 4:30 "Tadpole Tales: why evolutionary ecologists need developmental biology"
J. Arendt
- 19.6 4:45 "Scattered to the currents:juvenile dispersal in the marine environment."
A. Bass

SESSION 20 MOLECULAR POPULATION GENETICS SAT 3:30-4:45 ALUMNI HALL

- 20.1 3:30 "Y-chromosome evolution in white & red campions *Silene alba* & *S. dioica*"
D. Filatov
- 20.2 3:45 "The evolution of the alcohol dehydrogenase paralogues in the cactophilic *Drosophila* *mojavensis*"
L. Matzkin
- 20.3 4:00 "Molecular population genetics of methuselah: a G-protein coupled receptor associated with aging and senescence in *Drosophila*"
D. Duvernell
- 20.4 4:15 "Molecular evolution of a metabolic pathway gene (PGLYM) and its pseudogene in *Drosophila melanogaster*."
E. Sezgin
- 20.5 4:30 "Positive selection on a recently duplicated sperm protein"
M. Hellberg

SESSION 21 PHYLOGENY: INVERTEBRATES SAT 3:15-5 SOLARIUM

- 21.1 3:15 "Interpreting patterns of mtDNA sequence variation in the genus *Rhagoletis*: What we know, and what we suspect."
J. J. Smith*, J. B. Roethele, J. L. Feder, V. Gavrilovic, W. L. Perry, H. R. Dambroski, S. Berlocher

Oral Presentations

Saturday, June 24

- 21.2 3:30 "A molecular phylogeny of the Hymenoptera: combined analysis of COI, 16S and 28S rDNA gene fragments recover the Ceraphronoidea and Stephanoidea among the Evaniomorpha"
M. Dowton
- 21.3 3:45 "Phylogenetic relationships of the carabid (Coleoptera) subfamily Harpalinae based on molecular sequence data"
K. Ober
- 21.4 4:00 "Phylogeny of the Coleoptera (beetles) inferred from 18S rRNA"
A. Vogler
- 21.5 4:15 "Nuclear DNA sequence variation in the genus Rhagoletis: Comparing patterns of molecular data to allozymes and host plant associations."
S. Berlocher*, J. B. Roethele, J. L. Feder, J. J. Smith, V. Gavrilovic, W. L. Perry, H. Dambroski
- 21.6 4:30 "Ancestral polymorphism, introgression, and/or geographic subdivision: Interpreting patterns of nuclear and mtDNA sequence variation in the genus Rhagoletis."
J. L. Feder*, J. B. Roethele, J. J. Smith, V. Gavrilovic, W. L. Perry, H. R. Dambroski, S. Berlocher
- 21.7 4:45 "Nuclear genes for Arthropod Phylogenetics"
J. Regier

SESSION 22 HOST-PARASITE INTERACTION SAT 3:30-5 WOODBURN HALL 120

- 22.1 3:30 "The dynamics of host shifts: an experimental study of Microbotryum on two species of Silene." **CANCELED**
M. Heuhsen
- 22.2 3:45 "Genetic Effects of Interspecific Hybridization of Willows on Resistance to Insect Herbivores"
R. Fritz
- 22.3 4:00 "Parasitism by the parasitoid Asobara tabida reduces survival under stress in Drosophila melanogaster"
A. Hoang
- 22.4 4:15 "The evolution of wing morphology and its effect on host fidelity in bat flies (Diptera: Streblidae)"
M. Dean
- 22.5 4:30 "Estimating the Age of the Braconid Wasp/Polydnavirus Symbiosis"
J. Whitfield
- 22.6 4:45 "Dynamics of a subtropical population of the zebra butterfly, Heliconius charitonia"
T. Fleming

Oral Presentations

Saturday, June 24

SESSION 23 DEVELOPMENT AND EVOLUTION SAT 3:30-5 AUDITORIUM-3RD FLR

- 23.1 3:30 "Hox genes and heads: Segment homologies among arthropods"
R. Thomas
- 23.2 3:45 "The Evolution of Cell Lineage Stochasticity"
R. Azevedo
- 23.3 4:00 "An epistatic genetic basis for fluctuating asymmetry of mandible characters in mice"
L. Leamy*, E. Routman, J. Cheverud
- 23.4 4:15 "Developmental Constraint of Marsupial Forelimb Morphology"
J. Cooper
- 23.5 4:30 "Genetic basis of differences in the oral jaws of two Lake Malawi cichlid species (*)."
R. Albertson

SESSION 24 PLANT REPRODUCTIVE BIOLOGY SAT 3:30-5 FRANGIPANI ROOM

- 24.1 3:30 "The influence of maternal effects on life history in the herbaceous plant *Campanula americana*"
L. Galloway
- 24.2 3:45 "Indirect and Direct Environmental Effects in *Iris hexagona*: The Influences of Maternal and Seed Salinity on Germination"
P. Van Zandt
- 24.3 4:00 "Novel genotypes for novel environments: genetic variation for maternal effects in *Arabidopsis* recombinant inbreds"
N. Kane
- 24.4 4:15 "Variation at the PGI-C1 locus in *Clarkia unguiculata*: it's better than Viagra"
S. Travers
- 24.5 4:30 "Ecological influences on gender switching in an orchid"
C. Murren
- 24.6 4:45 "Differential Resource Allocation to Male versus Female Function and Its Implications on Individual Fitness"
T. Hickox

ASN ADDRESS SAT 5:15-6:15 AUDITORIUM

"Food webs in space (and time)"
Robert Holt

SUNDAY, JUNE 25

SYMPOSIUM 3A SSB AND ATB SYMPOSIUM SUN 8-10 AUDITORIUM

BIODIVERSITY: THE INTERFACE BETWEEN SYSTEMATICS AND CONSERVATION, Organized by V. A. Funk

- 8:00 Introduction, and "Systematics and conservation ecology: an example in the Hawaiian Islands."
A. Saka, W. L. Wagner
- 8:30 "Intra - and inter-population variation and systematics: landscape genetics and conservation in the Australian wet-tropics."
C. Moritz
- 9:00 "The dynamics of invasion and hybridization of a nonindigenous crayfish and its implications for freshwater conservation."
W. L. Perry, J. L. Feder, D. M. Lodge
- 9:30 "Phylogenies and conservation biology."
C. Humphries

SESSION 25 SEXUAL SELECTION SUN 8-10 SOLARIUM

- 25.1 8:00 "Costs of Mating in *Allonemobius fasciatus* and *A. socius*."
A. Hughes
- 25.2 8:15 "Genetic architecture of sexually dimorphic traits in the waterstrider, *Aquarius remigis*."
D. Fairbairn
- 25.3 8:30 "The incremental evolution of a complex pelecyaniform courtship display: A test of van Tets' hypothesis (*)"
M. Kennedy
- 25.4 8:45 "Evolution of sexually-selected display coloration in phrynosomatid lizards: A phylogenetic analysis"
J. Wiens
- 25.5 9:00 "Life history and gametic tradeoffs: a test of the predictions"
R. Snook
- 25.6 9:15 "The conspicuousness of male damselfly colorations as visual signals in relation to ambient light visual backgrounds, and phylogeny. "
T. Schultz
- 25.7 9:30 "Evolution of sexual size dimorphism in a songbird: Sex differences in growth patterns or sex differences in viability selection? "
A. V. Badyaev*, G.E. Hill, L. Whittingham
- 25.8 9:45 "Evolution of a sexually selected display in fiddler crabs"
D. Pope

Oral Presentations

Sunday, June 25

SESSION 26 INTERACTION AND COEVOLUTION SUN 8-10 AUDITORIUM-3RD FLR

- 26.1 8:00 "The evolution of resource specialization in Acacia seed-beetles (Coleoptera: Chrysomelidae: Bruchinae: Stator). "
G. Morse
- 26.2 8:15 "A phylogenetic analysis of avian Plasmodium and Haemoproteus"
S. Fallon
- 26.3 8:30 "Evolution of the disease resistance gene"
L. Rose in Lycopersicon. , Rose!
- 26.4 8:45 "Population genetics of an aphid-bacterial endosymbiosis"
D. Funk
- 26.5 9:00 "Molecular phylogenetic analysis of cospeciation between gall-forming flies (Diptera: Fergusoninidae) and their nematode mutualists (Tylenchida: Neotylenchidae)."
S. Scheffer*, R. Giblin-Davis, W. K. Thomas, K. Morris; K. Davies; G. Taylor; M. Purcell; J. A. Goolsby
- 26.6 9:15 "Selection on tolerance to deer herbivory in the Ivyleaf morning glory: the effects of natural enemy community composition."
J. Stinchcombe!
- 26.7 9:30 "A complete classification of adaptive evolution to extinction in pairwise interactions"
C. Webb
- 26.8 9:45 "Commensalism: What is it, and where does it come from?"
G. Farley

SESSION 27 GENOME EVOLUTION SUN 8-10 OAK ROOM

- 27.1 8:00 "Coevolution of the genetic code: fact or artefact?"
S. Freeland
- 27.2 8:15 "Highly non-uniform distribution of nucleotide content in the human genome: a comparison with extensively sequenced eukaryotic genomes"
A. Nekrutenko
- 27.3 8:30 "Comparative genomics of mitochondrial DNA in Drosophila simulans"
B. Ballard
- 27.4 8:45 "The complete mitochondrial sequence of the basal Hexapod Tetrodontophora bielensis, evidence for heteroplasmy and tRNA translocations"
F. Nardi!
- 27.5 9:00 "Comparative genomics approach to the study of relative evolutionary rates in promotor and coding regions of a chalcone synthase locus in the genus Ipomoea."
A. Denton
- 27.6 9:15 "Tempo and Mode of Evolution in an Orthologous CanSINE"
S. Zehr

Oral Presentations

Sunday, June 25

- 27.7 9:30 "Hotspot for insertions in the promoter region of the chalcone synthase D gene in *Ipomoea purpurea* (common morning glory)."
M. Durbin
- 27.8 9:45 "Evolution of genes and genomes in a flowering plant polyploid complex: *Glycine* subgenus *Glycine*"
J. Doyle

SESSION 28 PLANT POLL INTERACTIONS SUN 8-10 STATE ROOM EAST

- 28.1 8:00 "Pollen transfer in experimental populations: stigma-height dimorphism and the evolution of distyly"
A. Baker
- 28.2 8:15 "Natural selection for mixed mating "
S. Kalisz
- 28.3 8:30 "Reproductive assurance in *Datura wrightii* "
E. Elle*, J. D. Hare
- 28.4 8:45 "Pollination ecology of enantiostylous *Wachendorfia* (Haemodoraceae)"
L. Jesson
- 28.5 9:00 "The evolutionary significance of floral display size: a multi-generation selection experiment "
R. Mitchell
- 28.6 9:15 "Phylogeny and floral host preferences of the oligolectic bee subgenus *Callandrena* (Hymenoptera: Andrenidae: *Andrena*)"
L. Larkin
- 28.7 9:30 "Phylogeny of Indo-Australian pollinating fig wasps based on mitochondrial DNA sequences and morphology"
G. Weiblen
- 28.8 9:45 "Pollinator limitation of the Missouri Evening Primrose, *Oenothera macrocarpa* (Onagraceae)."
J. Moody-Weis

SESSION 29 PHYLOGEOGRAPHY/BIOGEOGRAPHY SUN 8-10 ALUMNI HALL

- 29.1 8:00 "The phylogeography and origins of a hybrid sunflower species, *Helianthus paradoxus*."
M. Welch
- 29.2 8:15 "Phylogeography of the African catfish, *Clarias gariepinus* Teugels"
A. Arndt, J. Van Houdt, F. Volckaert
- 29.3 8:30 "The use of the mitochondrial control region to study phylogeography and speciation in leaf beetles (Coleoptera: Chrysomelidae)"
P. Mardulyn

Oral Presentations

Sunday, June 25

- 29.4 8:45 "Biogeography and molecular phylogenetics of *Desmognathus* salamanders across the Eastern Continental Divide"
L. Rissler
- 29.5 9:00 "Grapes, Galls, and Geography: the Distribution of RAPD and mtDNA variation in US grape phylloxera"
D. Downie
- 29.6 9:15 "Patterns of Variation in Lower Jaw Size and Shape in Tree Squirrels"
D. Swiderski
- 29.7 9:30 "Morphometrics, biomechanics, and character displacement in two species of Plethodontid salamander"
D. Adams
- 29.8 9:45 "Evolution of scale dermatoglyphics in the horned lizards, Genus *Phrynosoma*"
C. Spencer

SESSION 30 LIFE HISTORY EVOLUTION

SUN 8-10

WHITTENBERGER

- 30.1 8:00 "Maternal age and mating history effects on adult mortality in fruit flies."
N. Priest
- 30.2 8:15 "Search for growth and precocious maturation QTL in an outbred population of rainbow trout (*Oncorhynchus mykiss*)"
C. Martyniuk
- 30.3 8:30 "Life history traits and competitive ability in *Daphnia*"
O. Sakwinska
- 30.4 8:45 "Do the feeding specialization and host-derived defense of Chrysomeline leaf beetles lead them to an evolutionary dead end ?"
A. Termonia*, T. H. Hsiao, J. M. Pasteels, M. Milinkovitch
- 30.5 9:00 "The threat of parasitic castration affects reproductive output of freshwater snails. "
A. Krist
- 30.6 9:15 "Caloric Restriction and the Case for Aging as an Adaptation:"
J. Mitteldorf
- 30.7 9:30 "The evolution of reproductive strategies in dasyurid marsupials: implications of molecular phylogeny"
C. Krajewski
- 30.8 9:45 "Plasticity in parental investment reflects different life history strategies in North and South American birds"
C. Ghalambor

SYMPOSIUM 3B SSB AND ATB SYMPOSIUM

SUN 10:30-12 AUDITORIUM

BIODIVERSITY: THE INTERFACE BETWEEN SYSTEMATICS AND CONSERVATION, Organized by V. A. Funk

- 10:30 "An evaluation of approaches to modeling systematic data for use in conservation planning."
S. Ferrier
- 11:00 "From representation to persistence: requirements for a sustainable system of conservation areas."
R. Cowling, A. Lombard, B. Pressey
- 11:30 "Using specimen data in biogeographical and GIS studies and their application in conservation: An example in Guyana," and concluding remarks.
V. A. Funk, V.A.F. and K. Richardson

SESSION 31 INBREEDING AND INBREEDING DEPRESSION SUN 10:30-12 OAK ROOM

- 31.1 10:30 "Are small relative to large populations vulnerable to inbreeding depression? Comparative quantitative genetics among *Aquilegia* populations."
K. Gallagher
- 31.2 10:45 "Inbreeding Depression in Wild Lupine"
H. Michaels
- 31.3 11:00 "Site and microsite-dependent inbreeding depression in *Impatiens capensis*."
M. Heschel
- 31.4 11:15 "Mating system evolution in *Datura*: Inbreeding depression "
J. Nunez-Farfan*, J. Zamudio, A. L. Escalante, R. Cabrales-Vargas
- 31.5 11:30 "The impact of plant mating system on plant-herbivore interactions."
D. Carr*, M. Eubanks
- 31.6 11:45 "The genetics of floral traits differentiating outcrossing and selfing *Mimulus* species: a QTL analysis"
J. Willis

SESSION 32 INTERACTION AND COEVOLUTION SUN 10:30-12 AUDITORIUM-3RD FLR

- 32.1 10:30 "Genetic diversity of algal symbionts in the Mangrove Jellyfish (*Cassiopea xamachana*) from the Florida Keys."
T. Wilcox
- 32.2 10:45 "Coevolutionary clines"
S. Nuismer
- 32.3 11:00 "Hybridization in Willows: Effects of Recombination on Herbivore Community Structure"
C. Hochwender!

Oral Presentations

Sunday, June 25

- 32.4 11:15 "Behavioral interactions between plants and herbivores: responses of caterpillars to changes in plant chemistry"
A. Shelton!
- 32.5 11:30 "Cost of host radiation in an RNA virus"
P. Turner
- 32.6 11:45 "Phylogeography of an obligate pollination mutualism: The senita and senita moth system"
J. Nason

SESSION 33 PHYLOGENY: VERTEBRATES SUN 10:30-12 SOLARIUM

- 33.1 10:30 "The phylogenetic position of the Limpkin (*Aramus guarauna*; Gruiformes: Aramidae) based on nuclear and mitochondrial gene sequences"
M. Fain
- 33.2 10:45 "Evolutionary relationships of galliform birds: a review of data from fossils, molecules and organisms OR What kind of fowl I?. "
T. Crowe
- 33.3 11:00 "Comparison of nuclear intron and mitochondrial phylogenies in the avian order Galliformes"
R. Kimball
- 33.4 11:15 "Systematics of the family Tinamidae (Aves: Tinamiformes) and implications for the biogeography of South American arid regions"
A. Porzecanski
- 33.5 11:30 "The evolution of cooperative breeding in Honeyeaters (Meliphagidae): issues confounding comparative analyses(*)"
A. Driskell
- 33.6 11:45 "Cryptic genetic variation and paraphyly in Common Ravens."
K. Omland

SESSION 34 THEOR GENETICS AND POPULATION GENETIC STRUCTURE SUN 10:30-12 STATE ROOM EAST

- 34.1 10:30 "Where the trade-off breaks down: models of a sterilizing pathogen. "
K. O'Keefe!*, J. Antonovics
- 34.2 10:45 "How to Calculate Fitness from Life History Variables: Solution of the Age-Structured Logistic Equation"
J. Mitteldorf
- 34.3 11:00 "A Representational Sensitivity Study of Game Theoretic Simulations"
N. Leahy
- 34.4 11:15 "Rekindling an old flame: A haploid model for the evolution and impact of flammability in resprouting plants"
B. Kerr*, D. W. Schwilk, A. Bergman, M. W. Feldman

Oral Presentations**Sunday, June 25**

- 34.5 11:30 "Somatic mutations with within-individual and individual level fitness effects in modular organisms."
M. Orive
- 34.6 11:45 "The population genetics of multistage carcinogenesis"
L. Nunney

SESSION 35 PHYLOGEOGRAPHY/BIOGEOGRAPHY SUN 10:30-11:45 ALUMNI HALL

- 35.1 10:30 "Convergent Adaptive Radiations in Rapid Frogs Reveal Co-Variation between Larval and Adult Traits"
B. Franky
- 35.2 10:45 "A mechanistic model for the latitudinal gradient of diversity? Toward a general synthesis"
D. Kaufman!
- 35.3 11:00 "Ancestral population dynamics and the post-glacial colonization of the New England intertidal"
W. John
- 35.4 11:15 "Colonization, extinction, and phylogeographic patterning of *Sida crystallina* (Crustacea: Cladocera) in North America."
A. Cox
- 35.5 11:30 "Phylogeographic variation in eye span and aerial performance in stalk-eyed flies"
J. Swallow!

SESSION 36 SELECTION, ADAPTATION, GEOGRAPHIC VARIATION SUN 10:30-12 FRANGIPANI ROOM

- 36.1 10:30 "The Strength of Phenotypic Selection in Natural Populations: A review of the literature."
J. Kingsolver*, H. Hoekstra, D. Berrigan, S. Vignieri, C. Hill, A. Hoang, P. Gibert, P. Beerli
- 36.2 10:45 "Selection in the barnacle *Semibalanus balanoides* as assessed by allozyme and microsatellite markers."
F. Dufresne !
- 36.3 11:00 "Demographic and evolutionary consequences of inflorescence feeding insects for *Liatris cylindracea* (Asteraceae)"
K. Carol
- 36.4 11:15 "MHC and Microsatellite Variation in Tuco-tucos: contrasting patterns in light of demography and selection"
T. Hambuch
- 36.5 11:30 "Mechanisms of genetic correlations among floral traits in a natural population of wild radish"
J. Connor
- 36.6 11:45 "From sun to shade: survivorship and development time of *Drosophila melanogaster* under natural temperature conditions."
J. Hoekstra!

SYMPOSIUM 4A ASN YOUNG INVESTIGATORS AND DOBZHANSKY PRIZE SYMPOSIUM SUN 1:15-3 WHITT. AUD.

Moderator: J. D. Thomson, Dobzhansky Prize Presenter: L. F. Delph

- 1:15 Introduction, J. D. Thomson
- 1:30 "Resolving the plankton paradox: chaos rules plankton biodiversity?"
J. Huisman
- 2:00 "Factors affecting reinforcement and the evolution of premating isolation."
M. Servedio
- 2:30 "Epistasis from the maternal-offspring interaction."
J. Wolf

SESSION 37 SEXUAL SELECTION MATING SYSTEMS SUN 1:15-3 STATE ROOM EAST

- 37.1 1:15 "Sexual selection and signal evolution on periodical cicada leks"
D. Marshall
- 37.2 1:30 "A comparative analysis of cooperative breeding in *Campylorhynchus* (Aves: Troglodytidae)"
K. Barker
- 37.3 1:45 "Influence of the mating system on effective population size in a polygynous tent-making bat"
J. Storz!
- 37.4 2:00 "Reconstructing penile and mating system evolution in the damselfly genus *Ischnura*."
J. V. Robinson*, J. Morgan, A. M. Stacey, P. T. Chippindale.
- 37.5 2:15 "Phylogenetics and the Evolution of Sexual Communication in Fireflies."
M. Branham
- 37.6 2:30 "Genetic Variation in Male Reproductive Fitness Traits in *Drosophila melanogaster*"
P. Mack
- 37.7 2:45 "The Demographic Effects of Rare Melanic Mosquitofish (*Gambusia holbrooki*) Differ at High and Low Density"
L. Horth

SESSION 38 HYBRID ZONES SUN 1:15-3 AUDITORIUM-3RD FLR

- 38.1 1:15 "Molecular and morphological evidence for a hybrid zone between *Chrysochus auratus* and *C. cobaltinus* (Coleoptera: Chrysomelidae)"
M. Peterson*, S. Dobler, L. Tantalo, J. Holland, and S. Locke
- 38.2 1:30 "Phylogenetic Relationships Among South American *Larrea* Hybrids"
J. Murfree
- 38.3 1:45 "Multilocus Analysis of Hybridization Between Desert and Bluehead Suckers in the Colorado River System"
C. Secor

Oral Presentations

Sunday, June 25

- 38.4 2:00 "Patterns of gene flow across an expanding hybrid zone"
M. Cruzan
- 38.5 2:15 "Bounded hybrid superiority in an avian hybrid zone"
R. Pierotti
- 38.6 2:30 "Genetic analysis of a hybrid zone in *Drosophila americana*; maintenance of a chromosomal cline"
B. McAllister
- 38.7 2:45 "Spatio-temporal dynamics and the environmental contingency of relative fitness: a fourteen-year perspective from the *Allonemobius fasciatus*-*A. socius* mosaic hybrid zone."
S. Britch

SESSION 39 PHYLOGENY: VERTEBRATES SUN 1:30-3 SOLARIUM

- 39.1 1:30 "Comparative Rates of Molecular Evolution in Heron Nuclear and Mitochondrial DNA"
V. Bolman
- 39.2 1:45 "Diversification and Specialization in Cybotoid Anoles"
R. Glor
- 39.3 2:00 "INFERRING EXTINCTION FROM MOLECULAR SEQUENCES : THE CASE FOR LAMNIFORM SHARKS.(*)"
O. Fedrigo*, Julie A. Ryburn, Andres J. Lopez, Anna L. Keyte and Gavin J. P. Naylor
- 39.4 2:15 "Language trees support an 'Express Train' sequence of Austronesian expansion."
R. Gray
- 39.5 2:30 "Evolution of Terrestrial Locomotion in Crocodylia: Multiple Adaptive Strategies and Variable Terrestrial Efficiency."
M. Meers
- 39.6 2:45 "Phylogenetic relationships and biogeography of the *Kinosternon flavescens* species group based on DNA sequences of the mitochondrial control region"
J. Serb

SESSION 40 MOLECULAR EVOLUTIONARY GENETICS SUN 1:30-3 ALUMNI HALL

- 40.1 1:30 "Strong selection acting on mtDNA of wild mice with XY females."
H. Hoekstra
- 40.2 1:45 "Molecular population genetics of a meiotic drive chromosome: Sex-Ratio evolution in *D. pseudoobscura*"
S. Schaeffer
- 40.3 2:00 "High direct estimate of the mutation rate in the mitochondrial genome of *C. elegans*"
D. Denver

Oral Presentations

Sunday, June 25

- 40.4 2:15 "Global Patterns of human DNA Sequence Variation in a 10-kb Region on Chromosome 1 (*)"
N. Yu*, Z. Zhao, W-H. Li
- 40.5 2:30 "Molecular evolution of blue opsin genes in prosimians and its implications for prosimian life style evolution "
Y. Tan
- 40.6 2:45 "Phylogeny and population genetics of DNA sequence variation at five loci in four species of Arabidopsis and Arabis"
B. Stranger

SESSION 41 DEVELOPMENT AND EVOLUTION SUN 1:30-3 OAK ROOM

- 41.1 1:30 "Mechanisms of Early Adult Development in a Pentamerous Animal"
S. Minsuk
- 41.2 1:45 "Allometric reorganization in the evolution of growth"
M. Zelditch
- 41.3 2:00 "Early differences in decapentaplegic expression correlate with differences in appendage morphology in insects"
E. Jockusch
- 41.4 2:15 "An experimental study of intraspecific variation: developmental timing and heterochrony in fishes"
P. Mabee
- 41.5 2:30 "The Development and Evolution of Crossveins and their Associated Pigmentation Patterns"
J. Marcus
- 41.6 2:45 "The development and evolution of the echinoderm nervous system: analysis of gene expression in the nervous system of the sea urchin *Heliocidaris eythrogramma*"
B. Sly

SESSION 42 SELECTION, ADAPTATION, GEOGRAPHIC VARIATION SUN 1:15-3 UNIVERSITY CLUB

- 42.1 1:15 "The ecology and evolution of antibiotic-resistant bacteria in hospital environments"
C. Bergstrom
- 42.2 1:30 "Analyzing the genetics of local adaptation in salmonids; an approach using clonal lines."
B. Robison
- 42.3 1:45 "Testing evolutionary parallelism: An example of repeated evolution of the same ecomorph of Anolis lizards on Puerto Rico."
T. Jackman
- 42.4 2:00 "Viability selection at early life stages of the tropical tree, *Platypodium elegans*."
K. Hufford

Oral Presentations

Sunday, June 25

- 42.5 2:15 "Natural Selection and Genetic Divergence After Fire in a Mojave Desert Annual Plant"
C. Vanier
- 42.6 2:30 "Geographic variation and selection on ovarian phenotypes in *Drosophila melanogaster*"
P. Schmidt
- 42.7 2:45 "Asymmetric response to stress in *E. coli*"
M. Quance

SYMPOSIUM 4B ASN YOUNG INVESTIGATORS AND DOBZHANSKY PRIZE SYMPOSIUM SUN 3:30-4:35 WHITT. AUD.

- 3:30 "Induced plant resistance: linking chemical mechanism with populations across three trophic levels."
J. Thaler
- 4:00 Presentation of Dobzhansky Prize
L. F. Delph
- 4:05 "The evolution of recombination in a heterogeneous environment."
T. Lenormand (winner of both a Young Investigator Award and the Dobzhansky Prize)

SESSION 43 PHYLOGENY RECONSTRUCTION AND COMPARISON: THEORY SUN 3:30-5 OAK ROOM

- 43.1 3:30 "A likelihood model of gene family phylogenetics"
L. Dubb
- 43.2 3:45 "Assessing the accuracy of using exemplars and the pitfalls of incomplete taxon sampling"
Meyer
- 43.3 4:00 "Bayesian Inference of a Phylogenetic Root (*)"
J. Bollback
- 43.4 4:15 "Efficiencies of different genes and different tree-building methods in recovering a known *Drosophila* genealogy"
N. Schizas!
- 43.5 4:30 "The Ability of Geometric Morphometric Methods to Estimate a Known Covariance Matrix"
J. Walker
- 43.6 4:45 "Fitting shapes to phylogenies using geometric morphometric methods"
F. Rohlf

SESSION 44 HYBRID ZONES SUN 3:30-5 AUDITORIUM-3RD FLR

- 44.1 3:30 "Herbivory in a scarlet gilia hybrid swarm: is there an affect of hybridization?"
K. Paige
- 44.2 3:45 "Intraspecific variation for genomic isolation between hybridizing sunflower species"
C. A. Buerkle*, L. H. Rieseberg

Oral Presentations**Sunday, June 25**

- 44.3 4:00 "Reinforcement and the dynamics of a salamander hybrid zone"
J. Marshall
- 44.4 4:15 "Maintenance of a Blue Mussel Hybrid Zone by Larval Dispersal"
M. Gilg
- 44.5 4:30 "Sri Lankan rain forest trees: reproductive barriers and interspecific hybridization."
E. Stacy
- 44.6 4:45 "Recent Allochronic Speciation in Periodical Cicadas (*Magicicada* spp.)"
J. Cooley*, D. Marshall, K. Slon, C. Simon

SESSION 45 PHYLOGENY: VERTEBRATES SUN 3:30-4:45 SOLARIUM

- 45.1 3:30 "Molecular systematics and evolution of the Colubrinae (Serpentes) (*)"
D. A. Creer !
- 45.2 3:45 "Species richness in ecological communities: a phylogenetic, biogeographic, and ecological perspective in emydid turtles. (*)"
P. Stephens
- 45.3 4:00 "Reevaluating model systems: an example using the lizard subfamily Phrynosomatinae(*) "
J. Schulte II
- 45.4 4:15 "Historical Biogeography and Molecular Phylogenetic tests for a polytomy in the evolutionary history of the salamander, *Mertensiella luschani*"
D. Weisrock
- 45.5 4:30 "Systematics of the salamander genera *Pseudotriton*, *Gyrinophilus*, and *Stereochilus* inferred from DNA sequences of the mitochondrial cytochrome b and ND4 genes."
A. Baldwin

SESSION 46 MOLECULAR EVOLUTIONARY GENETICS SUN 3:30-5 ALUMNI HALL

- 46.1 3:30 "Evidence for intense natural selection at *mhc1* loci in the self-fertilizing and homozygous vertebrate, *Rivulus marmoratus*."
B. Turner
- 46.2 3:45 "Molecular evolution of insect resistance in *Arabidopsis*"
T. Mitchell-Olds
- 46.3 4:00 "Melanocortin-1-receptor variation reveals the evolution of melanistic bananaquits (*Coereba flaveola*)"
N. Mundy*, E. Theron, E. Bermingham, K.
- 46.4 4:15 "Identifying regions of the human genome under selection using patterns of microsatellite variability"
B. Payseur

Oral Presentations

Sunday, June 25

46.5 4:45 "High Polymorphism in the Promoter of the Human Melanocortin 1 Receptor "
K. Makova

SESSION 47 PHYLOGEOGRAPHY/BIOGEOGRAPHY SUN 3:30-4:45 STATE ROOM EAST

- 47.1 3:30 "Late Cretaceous Fishes from Madagascar: Implications for the Evolution of the Extant Malagasy Ichthyofauna "
M. Gottfried
- 47.2 3:45 "Biogeography of North and South American Larrea as indicated by non-coding cpDNA sequences"
B. S. Moore
- 47.3 4:00 "Phylogeography of the trumpetfish: ring species complex on a global scale"
B. Bowen
- 47.4 4:15 "Biogeography of three-toed sloths on the islands of Bocas del Toro, Panama: parallel evolution of dwarfism during the Holocene"
R. P. Anderson !*, C. O. Handley, Jr.
- 47.5 4:30 "Avian phylogenetics, Gondwanaland biogeography, and the K/T mass extinction event."
J. Cracraft

SESSION 48 LIFE HISTORY EVOLUTION SUN 3:30-5 UNIVERSITY CLUB

- 48.1 3:30 "Comparative studies of aging in natural populations of guppies"
D. Reznick
- 48.2 3:45 "Endocrine genetics of life history variation: Juvenile hormone titer, flight capability, and ovarian growth in a wing-polymorphic cricket "
A. Zera
- 48.3 4:00 "Natural selection on progeny size: Variation among environments."
C. Fox
- 48.4 4:15 "Reproductive burden, locomotor performance, and the cost of reproduction in Uta stansburiana"
D. Miles
- 48.5 4:30 "Reproductive investment in a cruel world: Salmon mothers sacrifice offspring size and survival to maximise fitness"
S. Einum
- 48.6 4:45 "Senescence and life history evolution in a bacterium"
M. Ackermann

MONDAY, JUNE 26

SYMPOSIUM 5A SSB SYMPOSIUM MON 8-10 WHITTENBERGER AUDITORIUM

APPLIED EVOLUTION, Organized by H. Wichman and J. Bull

- 8:00 "Phylogenetics of HIV on trial."
D. Hillis
- 8:30 "Predicting Influenza evolution with phylogenetics."
R. Bush
- 9:00 "Using Evolution to build computer software and hardware."
J. Foster
- 9:30 "Using evolutionary biology in designing engineered crops and engineered crop pests."
F. Gould

SESSION 49 PHENOTYPIC PLASTICITY AND GXE MON 8-10 STATE ROOM EAST

- 49.1 8:00 "Genetic differentiation and phenotypic plasticity for cold tolerance in common mullein, an invasive exotic plant."
I. M. Parker
- 49.2 8:15 "Phenotypic plasticity in *Smilacina stellata* (Liliaceae): in response to seasonal light regimes: a developmental perspective."
A. Stork
- 49.3 8:30 "Locomotor performance of *Drosophila melanogaster*: interactions among developmental and adult temperatures, age and geography"
P. Gibert
- 49.4 8:45 "Density-dependent natural selection on plant height during bolting in the biennial plant *Alliaria petiolata* "
S. Dudley
- 49.5 9:00 "An informational constraint on plasticity's optimal magnitude: genetic-algorithm studies of allocation schedules in annual plants"
T. G. Wong
- 49.6 9:15 "Selection on phenotypic plasticity due to spatial heterogeneity in plant density and resource availability."
M. Stanton
- 49.7 9:30 "Germination performance of wild sunflower seeds high and low in saturated oils supports the hypothesis that germination temperature has selected the relative proportions of saturated and unsaturated seed oils. "
C. R. Linder
- 49.8 9:45 "Genetic correlations among traits and among environments in *Arabidopsis thaliana*"
S. Tonsor

Oral Presentations

Monday, June 26

SESSION 50 THEOR QUANT GENET MON 8-10 AUDITORIUM-3RD FLR

- 50.1 8:00 "Clines in polygenic traits"
N. Barton
- 50.2 8:15 "Modeling a binary phenotype: genotype and enviromental effects and interactions"
L. McIntyre
- 50.3 8:30 "Conditional Covariance and Multivariate Evolution"
P. Magwene
- 50.4 8:45 "Sexually Selected Characters, Life History Traits, and Antagonistic Pleitropy"
L. R. Brandt
- 50.5 9:00 "Quantitative Genetics of Natural Populations"
B. Milligan
- 50.6 9:15 "The comparison of G matrices : is there a best method?"
M. Begin
- 50.7 9:30 "A Model of Phenotypic Plasticity and Local Adaptation"
H. G. Spencer
- 50.8 9:45 "Predicting the Evolution of Sexual Size Dimorphism"
J. Reeve !

Meet Leticia

SESSION 51 SPECIATION GENETICS MON 8:15-10 SOLARIUM

- 51.1 8:15 "Species-level systematics: A method to measure introgression between hybridizing, sympatric species"
A. Porter
- 51.2 8:30 "A fine-scale, genome-wide screen for hybrid lethals in Drosophila"
D. Presgraves
- 51.3 8:45 "Intergenomic coadaptation and hybrid breakdown in population crosses"
C. Willett
- 51.4 9:00 "Nuclear-cytoplasmic Interactions and Hybrid Inviability in Nasonia"
P. O'Hara
- 51.5 9:15 "Wolbachia-induced cytoplasmic incompatibility evolves before other hybrid incompatibilities between two parastic wasp species"
S. Bordenstein
- 51.6 9:30 "Haldane's Rule in Caenorhabditis is implemented by sexual transformation."
S. Baird!
- 51.7 9:45 "Molecular mechanisms underlying hybrid breakdown in interpopulation crosses"
R. Burton

Oral Presentations

Monday, June 26

SESSION 52 COMM ECOL & TROP BIO

MON 8 - 10

OAK ROOM

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|------|------|---|
| 52.1 | 8:00 | "Fungal endophytes in tropical trees: patterns of abundance and diversity in a lowland Panamanian forest"
A. E. Arnold |
| 52.2 | 8:15 | "Germination, survival, and growth of pioneer and long-lived pioneer tree species during early succession in the tropical rainforests of the Bolivian Amazon"
M. Pena-Claros |
| 52.3 | 8:30 | "Competition among rain forest tree seedlings during gap phase regeneration"
L. Poorter |
| 52.4 | 8:45 | "Seven years of tree regeneration on strip clear-cuts in tropical rain forest in Jenaro Herrera, Peru."
D. Gorchov |
| 52.5 | 9:00 | "The effects of long-term fragmentation on plant biodiversity in the dry tropics. "
I. A. Ramjohn*, K. Stanley, A. Lugo |
| 52.6 | 9:15 | "Restoration of tropical wet forest in the Ebano Verde Scientific Reserve, Dominican Republic."
M. Slocum |
| 52.7 | 9:30 | "Effect of forest fragmentation on seed dispersal by dung beetles in Central Amazonia " |
| 52.8 | 9:45 | "Effects of light heterogeneity on seedling survival and growth in second-growth wet forests in NE Costa Rica. "
S. V. B. Iriarte |

SESSION 53 PHYLOGENY: INVERTEBRATES

MON 8-10

AUDITORIUM

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|------|------|--|
| 53.1 | 8:00 | "Dating the origin of New Zealand cicadas using Bayesian statistics."
C. Simon*, T. Buckley, K. Holsinger |
| 53.2 | 8:15 | "The <i>Drosophila melanogaster</i> Species Group: A Paradigm in Need of a Phylogeny (*)"
V. Schawaroch ! |
| 53.3 | 8:30 | "Phylogeny of micro-wasps: does morphology help much?"
A. Austin |
| 53.4 | 8:45 | "Cladistic Analysis of Larval Case Morphology and Implications of Host-plant Associations for North American Coleophora (Lepidoptera: Coleophoridae)."
S. Bucheli |
| 53.5 | 9:00 | "Part of a brackish or marine community preserved in Chiapan Amber (Lower Oligocene - Lower Miocene)"
Santiago-Blay |

Oral Presentations**Monday, June 26**

- 53.6 9:15 "Parasite-host relationships in ants: implications for sympatric speciation"
R. Savolainen
- 53.7 9:30 "Intercontinental genetic variation in *Daphnia* spp. (Crustacea: Cladocera)"
S. J. Adamowicz
- 53.8 9:45 "The phylogenetic potential of nuclear large subunit ribosomal DNA in the Daphniidae"
A. Omilian *

SESSION 54 PLANT REPRODUCTIVE BIOLOGY MON 8:15-10 FRANGIPANI ROOM

- 54.1 8:15 "Sex ratio affects the gender-bias of selection on an attractive trait in the wild strawberry."
T. L. Ashman
- 54.2 8:30 "Sex ratio evolution in gynodioecious *Nemophila menziesii*"
C. Barr
- 54.3 8:45 "Modeling gynodioecy, novel scenarios for maintaining polymorphism"
M. Bailey
- 54.4 9:00 "Genetics of sex determination in the gynodioecious species *Lobelia siphilitica*: Evidence from two populations"
D. Dudle
- 54.5 9:15 "Phenotypic and genetic correlations among floral traits in two dioecious species of *Thalictrum*"
S. L. Davis
- 54.6 9:30 "Fitness impacts of floral variation in natural populations of *Silene latifolia* in Spain"
J. Wright
- 54.7 9:45 "Hot fun in the summertime: the influence of continual flowering on offspring quality in a gynodioecious plant"
L. Wolfe

SYMPOSIUM 5B SSB SYMPOSIUM MON 10:30-11:30 WHITTENBERGER AUDITORIUM

APPLIED EVOLUTION, Organized by H. Wichman and J. Bull

- 10:30 "Bacteriophage evolution in industrial bioprocessing and biotechnology."
T. Klaenhammer
- 11:00 "In vitro evolution of enzymes."
I. Matsumura

SESSION 55 PHYLOGENY RECONSTRUCTION AND COMPARISON: THEORY MON 10:30-12 STATE ROOM EAST

- 55.1 10:30 "Maximum likelihood estimation of phylogenetic trees is consistent when substitution rates vary according to the invariant sites plus gamma distribution."
J. S. Rogers
- 55.2 10:45 "Starting-point dependency and the successive approximations approach to ML estimation of tree topologies and model parameters. "
J. Sullivan
- 55.3 11:00 "Tree-Independent Data Exploration Can Enhance the Efficiency of Parsimony, Neighbor Joining and Likelihood"
J. Lyons-Weiler
- 55.4 11:15 "An Efficient Method for Inferring Large Phylogenies"
J. Badger
- 55.5 11:30 "Homoplasy is your friend"
J. Wenzel
- 55.6 11:45 "Concurrent Use of Phylogenetic and Linnaean Nomenclature"
P. Cantino

SESSION 56 MOLECULAR EVOLUTIONARY GENETICS MON 10:30-11:45 AUDITORIUM-3RD FLR

- 56.1 10:30 "Genetic variation in *Microcoleus vaginatus* isolated from desert soils based on 16S rRNA and 16S-23S rRNA ITS sequence data." **CANCELED**
J. Johansen
- 56.2 10:45 "Characterization of *Nostoc* species isolated from desert soils based on morphological and 16S-23S rRNA ITS sequence data. "
X. Li
- 56.3 11:00 "Sequence heterogeneities in the 16S-23S rRNA internal transcribed spacer(ITS)of several cyanobacteria. "
S. Boyer
- 56.4 11:15 "Using rDNA genes to understand spliceosomal intron origin and evolution."
D. Bhattacharya
- 56.5 11:30 "Differential patterns of MHC and microsatellite gene diversity across habitats in Atlantic salmon: is selection involved? "
C. Landry

SESSION 57 SPECIATION GENETICS

MON 10:30-12

SOLARIUM

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- 57.1 10:30 "A novel 3-way gene x environment interaction, and it's role in the maintenance of sympatric differentiation in the Apple Maggot Fly, *Rhagoletis pomonella*."
K. E. Filchak
- 57.2 10:45 "Ecological constraints to early-life history survival and the genetic isolation of sympatric populations of an estuarine fish (*Osmerus mordax*) "
F. Lecomte
- 57.3 11:00 "Segregation in Sympatry: Sorting of Bindin alleles in two species of tropical sea urchins (*Echinometra*)"
L. B. Geyer
- 57.4 11:15 "Direct effect of autopolyploidy on advertisement calls of the gray treefrog, *Hyla chrysoscelis*."
M. Keller
- 57.5 11:30 "Reproductive character displacement of calling song characters in two cricket species, *Gryllus fultoni* and *G. vernalis* (Orthoptera; Gryllidae)"
Y. Jang
- 57.6 11:45 "Rhythms in Nature, Clock Genes and Cricket Song"
Y. Parsons

SESSION 58 COMM ECOL & TROP BIO

MON 10:30-12

OAK ROOM

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- 58.2 10:30 "Effects of gaps, leaf litter, and understory vegetation on woody seedling dynamics in tropical second-growth forests "
J. M. Dupuy
- 58.3 10:45 "Ecological Impacts of Invasive Species: A meta-analysis"
K. Goodell !*, M. Wonham, B. Von Holle, I. Parker
- 58.4 11:00 "Size and number of congeners independently predict magnitude of character displacement of a widespread species in multiple ensembles of intraguild predators"
J. Bernardo
- 58.5 11:15 "Habitat associations of tropical trees and shrubs within a 50-ha forest plot in Panama"
K. Harms
- 58.6 11:30 "Invertebrate diversity in nonvascular epiphytes of primary and secondary cloud forests in Costa Rica."
S. P. Yanoviak
- 58.7 11:45 "The impact of lianas on tree regeneration in tropical forest canopy gaps: Evidence for an alternative pathway of gap-phase regeneration (AG)"
S. Schnitzer

 SESSION 59 PHYLOGENY: INVERTEBRATES MON 10:30-12:15 AUDITORIUM

- 59.1 10:30 "Evolutionary history of Chydoridae (Crustacea: Cladocera)"
V. Sacherova
- 59.2 10:45 "Towards a phylogeny of Cobweb spiders and a Relimitation of the Genus Anelosimus (Araneae Theridiidae)(*)"
I. Agnarsson
- 59.3 11:00 "A newly discovered radiation of giant Hawaiian spiders: cladistic patterns based on morphological and molecular data"
G. Hormiga
- 59.4 11:15 "Progress in Neotropical Erigonine Systematics (Araneae, Linyphiidae, Erigoninae)"
J. Miller
- 59.5 11:30 "An evaluation of the utility of some ribosomal protein genes for reconstructing metazoan phylogeny"
C. Turbeville
- 59.6 11:45 "The Evolution of the Hyriidae (Mollusca: Bivalvia: Unionoida) and the Disintegration of Gondwanaland: Using Phylogenetic Pattern to Test Hypotheses of Macroevolutionary Process (*)"
D. Graf
- 59.7 12:00 "Speciation and extinction in North American tiger beetles."
T. Barraclough

 SESSION 60 PLANT REPRODUCTIVE BIOLOGY MON 10:30-12 FRANGIPANI ROOM

- 60.1 10:30 "Polyploidy and the evolution of gynodioecy: an example from Lycium (Solanaceae)"
J. S. Miller
- 60.2 10:45 "Evolutionary dynamics of gynodioecy in *Silene acaulis*: coexistence of divergent male-sterile cytotypes "
T. Staedler
- 60.3 11:00 "Selection on cpDNA haplotypes in structured populations of a gynodioecious plant"
D. McCauley
- 60.4 11:15 "The evolution of cytoplasmic male-sterility in structure demes of *Silene vulgaris*"
D. Taylor
- 60.5 11:30 "The joint evolution of the chloroplast and mitochondrial genomes: population and phylogenetic signals in *Silene vulgaris*"
M. Olson!
- 60.6 11:45 "Fitness differences among diploids, tetraploids and their triploid progeny in *Chamerion angustifolium*: mechanisms of inviability and implications for polyploid evolution"
T. Burton!

SYMPOSIUM 6A SSB SYMPOSIUM MON 1:00-3:10 AUDITORIUM

MAJOR EVOLUTIONARY RADIATIONS: EVIDENCE FROM THE FOSSIL RECORD AND COMPARATIVE BIOLOGY

Organizers J. Alroy, G. Eble, P. Wagner

- 1:00 Introduction, and "Major evolutionary radiations of North American fossil mammals."
J. Alroy
- 1:30 "The evolution of animals with eyes: was a major radiation predictable?"
A. de Queiroz
- 1:15 "Comparing evolutionary radiations among sea urchins."
G. Eble
- 2:10 "Evolutionary rates of ecological interactions between insects and plants: Connecting paleontology and molecular evolution."
B. Farrell
- 2:30 "Morphological and ecological evolution in the late Paleozoic radiation of seed plants."
H. Sims
- 2:50 "Species richness in angiosperms: a time-calibrated phylogenetic analysis."
S. Magallon, M. Sanderson

SESSION 61 SEXUAL SELECTION MATING SYSTEMS MON 1:30-3 OAK ROOM

- 61.1 1:15 "Quantifying multiple behavior mechanisms of sexual selection in a variable environment"
A. Sih*, R. Ziemba
- 61.2 1:30 "The genetic basis of male color patterns in Lake Malawi cichlids"
P. Danley
- 61.3 1:45 "Speciation is enhanced by sexual selection in sticklebacks"
J. Boughman !
- 61.4 2:00 "Sexual Selection and Speciation in Bowerbirds"
J. A. C. Uy
- 61.5 2:15 "Rapid evolution of reproductive barriers driven by sexual conflict"
S. Gavrillets
- 61.6 2:30 "Preliminary test for the Westermarck effect in *Drosophila paulistorum*."
Y. K. Kim
- 61.7 2:45 "Sperm Competition in Hybridizing Field Crickets (*Gryllus*): Consequences for Reproductive Isolation"
G. Hume

SESSION 62	EVOL OF SEX	MON 1:15-3	STATE ROOM EAST
62.1	1:15	"Genetic Constraint on the Evolution of Patterns of Temperature-dependent Sex Determination"	F. Janzen
62.2	1:30	"Molecular nature of 11 de novo spontaneous mutation in <i>Drosophila melanogaster</i> "	H. P. Yang
62.3	1:45	"Molecular Mechanisms of Sex Determination and the Evolution of Hermaphroditism in <i>Caenorhabditis</i> "	E. Haag
62.4	2:00	"Life History Changes that Accompany the Transition from Sexual to Parthenogenetic Reproduction in <i>Drosophila mercatorum</i> "	M. G. Kramer
62.5	2:15	"Reproductive effort in parthenogenetic and sexual bagworm moths (Lepidoptera: Psychidae)"	T. Kumpulainen
62.6	2:30	"Reduced variability on the neo-Y chromosome of <i>Drosophila miranda</i> "	D. Bachtrog
62.7	2:45	"Ecological distribution of asexual oribatid mites: a test of the Red Queen hypothesis"	J. M. Cianciolo

SESSION 63	SPECIATION GENETICS	MON 1:45-3	WHITTENBERGER
63.1	1:45	"Evolution of the <i>Galaxias vulgaris</i> species complex in relation to the loss of diadromy"	G. Wallis
63.2	2:00	"Host-associated genetic differentiation in the goldenrod elliptical-gall moth: parallel host-race formation?"	S. Heard
63.3	2:15	"Geographic isolation, habitat gradients, and diversification of rainforest vertebrates."	C. Schneider
63.4	2:30	"Mortality profile of F1 hybrids derived from phenotypically divergent Zimbabwe <i>D. melanogaster</i> lines"	A. J. Fry
63.5	2:45	"Virally-mediated genetic exchange in <i>Bacillus subtilis</i> : does DNA sequence divergence mean sexual isolation?"	M. Feldgarden

SESSION 64 PHYLOGENY RECONSTRUCTION AND COMPARISON: THEORY MON 1:15-3 UNIVERSITY CLUB

- 64.1 1:15 "Ancestral State Estimation and Taxon Sampling"
B. Salisbury
- 64.2 1:30 "Random sampling of constrained phylogenies"
E. Martins
- 64.3 1:45 "There is Something Wrong with the Partition Homogeneity (ILD) Test"
A. D. Yoder
- 64.4 2:00 "Introducing Mesquite: A modular programming system for evolutionary analysis."
W. Maddison
- 64.5 2:15 "ARE PARTICULAR PROTEIN REGIONS PREDISPOSED TO YIELD MISLEADING
PHYLOGENETIC INFERENCES?(*)"
O. Fedrigo*, K. Vander Velden, D. Adams and G. Naylor
- 64.6 2:30 "Clades and species in the PhyloCode: What if genealogy is not strictly divergent?"
D. Baum
- 64.7 2:45 "Species delimitation in systematics: inferring diagnostic differences between species"
J. Wiens

SESSION 65 PHYLOGENY: VERTEBRATES MON 1:15-3 AUDITORIUM - 3RD FLR

- 65.1 1:15 "How tree-like is cultural evolution? Trees, splits graphs, and Pacific languages(*)"
F. Jordan
- 65.2 1:30 "Estimation of primate speciation dates using local molecular clocks"
Z. Yang
- 65.3 1:45 "Nuclear-gene phylogenetics and evolution of rodents"
R. DeBry
- 65.4 2:00 "Relationships among insectivore families."
C. Douady
- 65.5 2:15 "A study of mammalian interordinal relationships using the BRCA1 gene."
M. Scally
- 65.6 2:30 "Molecular phylogenetic analysis places barking deer (genus: Muntiacus) among
plesiometaacarpal deer within the family Cervidae"
M. G. Egan !
- 65.7 2:45 "Systematics of Madagascar's tenrecs: adding taxa vs. adding characters and the effects of
untested species limits"
L. Olson

Oral Presentations

Monday, June 26

SESSION 66 PLANT REPRODUCTIVE BIOLOGY MON 1:30-3 FRANGIPANI ROOM

- 66.1 1:30 "Gender variation and the evolution of combined vs. separate sexes in *Sagittaria latifolia* (Alismataceae)"
M. E. Dorken
- 66.2 1:45 "Mating System Evolution in Siparunaceae (Laurales): A Phylogenetic Approach"
H. Won
- 66.3 2:00 "Gaertnera (Rubiaceae): Phylogenetic reconstructions and the evolution of dioecy"
S. Malcomber
- 66.4 2:15 "Significance tests in analysis of paternity"
T. Meagher
- 66.5 2:30 "A balancing selection model for outcrossing in pines"
C. G. Williams
- 66.6 2:45 "Crop allele persistence in an experimental sunflower population"
J. Charity

SYMPOSIUM 6B SSB SYMPOSIUM MON 3:10 - 5 AUDITORIUM

MAJOR EVOLUTIONARY RADIATIONS: EVIDENCE FROM THE FOSSIL RECORD AND COMPARATIVE BIOLOGY

Organizers J. Alroy, G. Eble, P. Wagner

- 3:10 "Evolutionary radiations: linking development and ecology during the Cambrian explosion."
D. Erwin
- 3:30 "A phylogenetic analysis of morphospace occupation and adaptive radiation in lizards."
J. Losos
- 3:50 "Origination and extinction components of taxonomic diversification."
M. Foote
- 4:10 "Tempo and mode of evolution from molecular phylogenies."
S. Nee
- 4:30 "Environmental vs. morphologic diversification among Ordovician gastropods."
P. Wagner, P. Gottshall
- 4:50 Concluding remarks

SESSION 67 EXPERIMENTAL EVOLUTIONARY GENETICS MON 3:30-5 OAK ROOM

- 67.1 3:30 "Experimental evolution of the G-matrix: genetic correlations among wing vein phenotypes in 'hot' and 'cold' evolved lab populations of *Drosophila*"
D. Rand

Oral Presentations

Monday, June 26

- 67.2 3:45 "The Y chromosome drastically affects fitness in *D. melanogaster*."
A. Chippindale
- 67.3 4:00 "Selection under rising atmospheric carbon dioxide in experimental populations of *Brassica*"
D. E. Costich
- 67.4 4:15 "Evolution on a Rugged Adaptive Landscape: A Genetic Analysis of Compensatory Mutations in the Bacteriophage Phi-6."
C. Burch
- 67.5 4:30 "Constrained Adaptation in a Bacteriophage"
M. Brauer
- 67.6 4:45 "Mechanisms causing rapid and parallel losses of ribose catabolism in evolving populations of *E. coli* B"
V. Cooper

SESSION 68 EVOL OF SEX

MON 3:30-5

STATE ROOM EAST

- 68.1 3:30 "Evidence for the 'thawing' of 'frozen' variation in an adventive, facultatively apomictic weed."
H. M. Chapman
- 68.2 3:45 "The coevolution of parasites with host acquired immunity and the evolution of sex"
K. Lythgoe
- 68.3 4:00 "Local selection for sex in mixed populations *Potamopyrgus antipodarum*?"
J. Jokela
- 68.4 4:15 "Testing for epistasis among deleterious mutations in *Caenorhabditis elegans*"
A. Peters
- 68.5 4:30 "Genome-wide mutation rates estimated from molecular divergence: implications for the evolution of sex"
P. Keightley
- 68.6 4:45 "Big issues, little critters: The relationship between life cycle and mutation accumulation in a cyclical parthenogen."
A. Wilson*, P. Sunnucks, J-C. Simon, D. Hales

SESSION 69 THEOR GENETICS AND POPULATION GENETIC STRUCTURE

MON 3:30-5 AUDITORIUM- 3RD FLR

- 69.1 3:30 "Penaeid shrimp in the southeastern United States: does sequence analysis of the mtDNA control region detect genetic population structuring?"
A. McMillen-Jackson
- 69.2 3:45 "Evolution in island silveryeyes (*Zosterops lateralis*): the role of founder events, drift and selection"
S. M. Clegg

Oral Presentations

Monday, June 26

- 69.3 4:00 "Genetic population structure in three species of *Anopheles dirus* mosquitoes from Southeast Asia using microsatellite and DNA sequence data"
C. Walton
- 69.4 4:15 "Schistura oedipus, one cave fish species or a cluster in statu nascendi?"
R. Borowsky
- 69.5 4:30 "Genetic diversity and clonality of *Asimina triloba* (Annonaceae)"
B. Brooks
- 69.6 4:45 "Conotoxin diversity among populations of *Conus* from the central and eastern Pacific."
T. F. Duda

SESSION 70 PHYLOGENY RECONSTRUCTION AND COMPARISON: THEORY MON 3:30-5 UNIVERSITY CLUB

- 70.1 3:30 "How can mitochondrial gene trees be reconciled with phylogenetic taxonomy? Examples from an African avifauna"
P. Beresford
- 70.2 3:45 "Combining molecular and morphological data in maximum-likelihood phylogenetic inference. I. Rationale and methodology."
D. Swofford
- 70.3 4:00 "Combining molecular and morphological data in maximum-likelihood phylogenetic inference. II. An example from crotaphytid lizards"
J. McGuire
- 70.4 4:15 "15 new mitochondrial genomes: Implications for mammalian, bird and dinosaur evolution. "
D. Penny*, K. Slack, M. Phillips, A. Harrison, O. Lin, A. Gore, E. Cowburn
- 70.5 4:30 "Exploring Among-Site Rate Variation Models in a Maximum Likelihood Framework Using an Empirical Data Set (*)"
T. Buckley
- 70.6 4:45 "A New Fast Heuristic for Computing the Breakpoint Phylogeny and a Phylogenetic Analysis of a Group of Highly Rearranged Chloroplast Genomes"
R. Jansen*, M. E. Cosner, T. Warnow, S. Wyman, L-S. Wang, B. M. E. Moret, L. A. Raubeson

SESSION 71 PHYLOGENY: INVERTEBRATES MON 3:30-5 WHITTENBERGER

- 71.1 3:30 "Acoel flatworms: Basal bilaterians or outgroup attractors?"
D. Eernisse
- 71.2 3:45 "Biodiversity and Molecular Evolution of Rotifers in Boreal Saline Lakes of Canada"
A. M. Derry
- 71.3 4:00 "Can behaviour be reliably inferred from end-product structure? A comparative study of case building behaviour and case structure in caddisflies (Trichoptera)."
A. Stuart!*, D. Currie, F. Hunter

Oral Presentations

Tuesday, June 27

- 71.4 4:15 "The Evolution of Ambulacral and Thecal Symmetry Among Extinct Echinoderm Clades"
C. D. Sumrall
- 71.5 4:30 "Reproductive isolation and genetic differentiation of a scleractinian coral *Mycedium elephantotus*."
C. F. Dai
- 71.6 4:45 "Decapod Phylogenetic Systematics: Relationships within Astacidea and Thalassinidea"
M. Porter

SESSION 72 PHYLOGENY: PLANTS

MON 3:30-5

FRANGIPANI ROOM

- 72.1 3:30 "Evolutionary rates and species diversity in flowering plants"
V. Savolainen
- 72.2 3:45 "Phylogeny and speciation in *Antirrhinum* s.l."
R. Oyama
- 72.3 4:00 "Molecular phylogenetic studies in *Carex* section *Acrocystis* (Cyperaceae): Evidence from nuclear *Adh* and ITS genic regions (*)."
E. H. Roalson
- 72.4 4:15 "Evolution of flowers in the Piperales (*)."
M. A. Jaramillo
- 72.5 4:30 "Relationships within Nyctaginaceae: What can floral fragrance tell us?"
R. Levin!
- 72.6 4:45 "Origins of clonal diversity in hyper variable asexual ostracode *Cypridopsis vidua*."
A. Cywinska

SSE PRESIDENTIAL ADDRESS

MON 5:15-6:15

AUDITORIUM

"Mutation, Evolution and Extinction"
Michael Lynch

TUESDAY, JUNE 27**SYMPOSIUM 7A ATB SYMPOSIUM**

TUES 8:15-10

SOLARIUM

COEVOLUTION AND SPECIATION IN PASSION-VINE BUTTERFLIES, Organized by R.B. Srygley

- 8:15 Opening remarks, R. B. Srygley
- 8:30 "Systematics and co-evolution."
A. Brower
- 9:00 "Mimicry and speciation."
J. Mallet
- 9:30 "Co-evolution of mimetic behavior."
B. Srygley

SESSION 73	PREDATOR-PREY INTERACTIONS	TUES 8:30-10	OAK ROOM
73.1	8:30	"Neural escape pathways in prey affect evolution of predators that exploit prey antipredatory behaviors." P. G. Jablonski	
73.2	8:45	"Wasp-spider predatory interactions mediated by silk" T. Blackledge	
73.3	9:00	"Aphid resistance to natural enemy attack" M. Fellowes	
73.4	9:15	"Strong antiapostatic selection against novel solitary aposematic prey" J. Mappes	
73.5	9:30	"Ontogenetic change and effects on the consistency of individual behavioral differences." C. Allen	
73.6	9:45	"Character Displacement Revisited: Putting the Stickle Back in the Fish" S. Vamosi	

SESSION 74	SEXUAL SELECTION FEMALE CHOICE	TUES 8 -10	AUDITORIUM-3RD FLR
74.1	8:00	"Do female grey seals select genetically diverse mates?" J. Worthington Wilmer	
74.2	8:15	"Male reproductive strategies in polygamous mating systems" P. Escobar-Paramo!	
74.3	8:30	"Sexual selection and the energetics of sound production in the treefrog, <i>Hyla versicolor</i> ." J. McLister	
74.4	8:45	"The evolution of structurally colored skin in birds and mammals." R. O. Prum	
74.5	9:00	"Factors shaping rapid divergence in sexual display in the bowerbirds" G. Borgia	
74.6	9:15	"Coevolution of costly mate choice and condition-dependent display of good genes" D. Houle	
74.7	9:30	"Pick-up lines of the fruit fly <i>Drosophila melanogaster</i> : Reproductive isolation and sexual selection" B. Talyn	
74.8	9:45	"Resource usurping and resource defending as stable alternative strategies with unequal mean fitness" R. Calsbeek	

SESSION 75	GENOME EVOLUTION	TUES 8:00-9:45	WHITTENBERGER
75.1	8:00	"Genome evolution and the C-value paradox" T. R. Gregory	
75.2	8:15	"Evolutionary dynamics of non-LTR retrotransposons in reptiles" D. Kordis	
75.3	8:30	"Ancient Genome Duplications Did Not Structure the Vertebrate Genome: Evidence from the Human Hox-Bearing Chromosomes" A. Hughes	
75.4	8:45	"Evolution of Bivalve Mitochondrial Genomes" J. Curole CANCELED	
75.5	9:00	"The origin of microsatellites" J. Strassmann	
75.6	9:15	"Secondary structural elements of the chloroplast gene rbcL and their implications for phylogenetics and genome evolution" D. P. Wall	
75.7	9:30	"Single copy nuclear gene (PGD) phylogenies suggest ancient origin of polyploidization in the North American Sphaeriidae (Mollusca, Bivalvia)" T. Lee	

SESSION 76	PHYLOGENY: PLANTS	TUES 8-10:15	ALUMNI HALL
76.1	8:00	"Evolutionary pattern and process in Penstemon (Scrophulariaceae)" A. D. Wolfe	
76.2	8:15	"Molecular phylogeny and evolution of Coreocarpus (Asteraceae)." D. J. Crawford*, R. T. Kimball, E. B. Smith, Tadesse, Mesfin	
76.3	8:30	"Duplicated loci of Rosaceae GBSSI genes support origin of subfamily Maloideae from Spiraeoideae ancestors" R. Evans	
76.4	8:45	"Utility of single- or low-copy nuclear gene sequences in plant phylogenetic reconstructions" D. Ferguson	
76.5	9:00	"A preliminary molecular phylogeny of Bignoniaceae (Bignoniaceae)" L. Lohmann CANCELED	
76.6	9:15	"Lower species richness and dispersal rates in dioecious angiosperm lineages: the problem of having two houses" J. Heilbuth	
76.7	9:30	"Molecular Phylogeny of the North American genus Houstonia (Rubiaceae)" S. Church	

Oral Presentations**Tuesday, June 27**

- 76.8 9:45 "Phylogeny and population biology of the senita cactus"
S. Jurk
- 76.9 10:00 "The evolution of the 'cactus form': a closer look at the genus *Pereskia*"
R. Nyffeler

SESSION 77 THEOR GENETICS AND POPULATION GENETIC STRUCTURE TUES 8-10 AUDITORIUM

- 77.1 8:00 "Cultural Inheritance as a Mechanism for Population Sex Ratio Bias "
S. Freedberg
- 77.2 8:15 "Frequency-dependent selection with dominance: maintaining multiple alleles by pairwise interactions "
M. A. Asmussen
- 77.3 8:30 "Species invasions: combining the effects of density and genetics"
G. Garcia-Ramos
- 77.4 8:45 "Haldane's sieve reconsidered: The role of dominance in adaptation "
A. Betancourt
- 77.5 9:00 "Testing population histories with gene trees: was there a bottleneck in glacial refugial populations of montane grasshoppers"
L. L. Knowles
- 77.6 9:15 "Evaluating the divergence-with-gene flow model: sympatric ecotypes of rainbow smelt (*Osmerus mordax*) as a case study."
R. St-Laurent
- 77.7 9:30 "Gene flow among populations of the lizard *Sceloporus occidentalis* in southern California mountains."
C. McFadden
- 77.8 9:45 "How quantitative genetic methods reveal, and molecular markers do not, small scale population structure in a marine bivalve with putatively high gene flow."
P. C. Luttkhuizen

SESSION 78 LIFE HISTORY EVOLUTION TUES 8-10 STATE ROOM EAST

- 78.1 8:00 "Does total reproductive effort evolve independently of offspring size?"
J. Caley
- 78.2 8:15 "Quantitative estimates of mortality risk and senescence in *Daphnia*."
J. L. Dudycha
- 78.3 8:30 "Sex ratio bias of individuals and clones in the brittle star *Ophiactis savignyi*"
T. McGovern !
- 78.4 8:45 "Crone flies: water balance in aging *Drosophila*"
A. Gibbs

Oral Presentations**Tuesday, June 27**

- 78.5 9:00 "Ageing in *Daphnia*: no support for negative pleiotropy"
L. Yampolsky
- 78.6 9:15 "Mutant *Drosophila* insulin-like receptor retards senescence and neuroendocrine function"
M. Tatar
- 78.7 9:30 "The evolution of egg size in a desert seed beetle."
M. E. Czesak
- 78.8 9:45 "The importance of maternal effects on offspring survival in an amphibian, *Plethodon cinereus*"
E. Crespi

SYMPOSIUM /B A1B SYMPOSIUM TUES 10:30-12 SOLARIUM

COEVOLUTION AND SPECIATION IN PASSION-VINE BUTTERFLIES, Organized by R.B. Srygley

- 10:30 "Heliconius color pattern evolution: linking traditional and molecular genetics."
O. McMillan
- 11:00 "Evolution of Host-Plant Specialization."
H. Engler
- 11:30 "The three butterfly problem: divergent selection and Muellierian mimicry."
D. Kapan

SESSION 79 PHYLOGENY RECONSTRUCTION AND COMPARISON: THEORY TUES 10:30-11:45 OAK ROOM

- 79.1 10:30 "Phylogenomics: using gene genealogies to map the genomic scale of selection during rapid speciation"
S. Palumbi
- 79.2 10:45 "A simple method for assigning positional evolutionary rate variability in phylogenetic molecular sequence analysis."
S. Turner
- 79.3 11:00 "Estimation of divergence times without a molecular clock"
J. Thorne
- 79.4 11:15 "Rapid evolution: comparative analysis of evolutionary rates, selection and genetic variation"
M. Kinnison!
- 79.5 11:30 "Assessing topology dependence when reconstructing ancestral character states: an example using lichen symbiosis evolution "
F. Lutzoni*, M. Pagel, V. Reeb

Oral Presentations

Tuesday, June 27

SESSION 80 SEXUAL SELECTION FEMALE CHOICE TUES 10:30-12 AUDITORIUM-3RD FLR

- 80.1 10:30 "Female Preference Asymmetry for Male Color among Populations of an Iguanid Lizard, *Sauromalus obesus*"
M. Flowers !
- 80.2 10:45 "Do female *Tribolium* beetles discriminate against 'poor' quality males?"
A. Pai
- 80.3 11:00 "Is female choice constrained by sensory bias? The acoustics of female mate preference and predator evasion in wax moths"
R. Rodriguez
- 80.4 11:15 "A polymorphism in female preference for bars in the swordtail fish *Xiphophorus cortezi*"
M. Morris
- 80.5 11:30 "Evolution of sexual dimorphisms in spottail darters"
R. M. Strange
- 80.6 11:45 "Genetic basis of courtship song differences between *Drosophila pseudoobscura* and *D. persimilis*"
M. Williams

SESSION 81 MOLECULAR EVOLUTIONARY GENETICS TUES 10:30-11:30 WHITTENBERGER

- 81.1 10:30 "Mitochondrial VNTRs: variation within *Schistosoma mansoni* suggests selection for tandem array length."
A. Bieberich
- 81.2 10:45 "Extraordinary evolution of gastropod mitochondrial LSU rRNA secondary structures"
C. Lydeard
- 81.3 11:00 "Hierarchical domains of concerted evolution in rDNA intergenic spacers of related *Arabidopsis* species"
D. A. Hayworth!
- 81.4 11:15 "Examining the complex patterns of evolutionary rate variation for the MYB transcription factor gene family."
E. L. Braun
- 81.5 11:30 "Molecular evolution of the luciferase gene in the genus *Pyrophorus*."
U. Stolz

SESSION 82 PLANT POLL INTERACTIONS TUES 10:30-12 ALUMNI HALL

- 82.1 10:30 "Understanding Androdioecy in White Mangrove, *Laguncularia racemosa* (Combretaceae)"
C. Landry

Oral Presentations**Tuesday, June 27**

- 82.2 10:45 "Pollinator mediated selection on floral traits of *Silene virginica*: A model system for testing the pollination syndrome concept."
M. Dudash
- 82.3 11:00 "Pollinator-mediated selection and floral trait response: multi-year evidence in experimental *Nicotiana* populations."
A. Ippolito
- 82.4 11:15 "Accidents happen: Historical contingency and pleiotropic context influence plant-pollinator evolution"
W. S. Armbruster
- 82.5 11:30 "Studying the Potential Effect of Nectar-Inhabiting Microorganisms (NIM's) on Plant Fitness "
A. Golonka*, J. Antonovics
- 82.6 11:45 "Spatial foraging patterns and pollination ecology of the giant honey bee, *Apis dorsata*, in an Indian forest" **CANCELED**
P. Batra

SESSION 83 THEOR GENETICS AND POPULATION GENETIC STRUCTURE TUES 10:30-12 AUDITORIUM

- 83.1 10:30 "Population structuring in Lake Maracaibo basin killifishes."
T. Hrbek
- 83.2 10:45 "Clonality and Genetic Diversity of *Magnolia virginiana*"
T. R. Bungay
- 83.3 11:00 "Geographic variation in Mexican Jays: Local differentiation, polyphyly or hybridization?"
N. Bhagabati !*, J. Brown, B. Bowen
- 83.4 11:15 "Range-limiting traits and their evolutionary potential in marginal populations of Cocklebur (*Xanthium strumarium*)"
T. Griffith !
- 83.5 11:30 "Panmixia in the European eel: a wavering paradigm"
T. Wirth
- 83.6 11:45 "Genetic diversity and clonal structure of sawgrass (*Cladium jamaicense*) in the Florida Everglades."
C. T. Ivey

SESSION 84 INBREEDING AND INBREEDING DEPRESSION TUES 10:30-12 STATE ROOM EAST

- 84.1 10:30 "Inbreeding depression: overdominance or deleterious recessives?"
D. Roff
- 84.2 10:45 "The genetic load induced by supplementation of endangered species through captive breeding programs."
M. O'Hely

Oral Presentations

Tuesday, June 27

- 84.3 11:00 "Compensating for our load of mutations: Freezing the meltdown of small populations"
A. Poon
- 84.4 11:15 "Modeling phase two of mutation meltdown with fluctuating population sizes and recessive
gene action"
M. Tringali
- 84.5 11:30 "Within- and among-population effects of initial phenotype on response to inbreeding in
Daphnia pulex."
C. Baer
- 84.6 11:45 "Inbreeding depression in a freshwater snail"
J. Wiehn

SCIENTIFIC PROGRAM

Poster Presentation Schedule

SATURDAY, JUNE 24	POSTER SESSION I	1-5PM
<i>and</i>		
SUNDAY, JUNE 25	POSTER SESSION II	1-5PM

Note: All posters will be up for both sessions.

EDUCATION

- 1 "Biology is not a descriptive science: a new mantra for educators"
J. Ihara
- 2 "'Scientific Process': A Course Introducing the Philosophy, Methods, and Ethics of Science in Preparation for Independent Research."
M. Meers, N. Egan Demers, M. Savarese
- 3 "Evolution by critical inquiry: Natural selection and genetic drift"
S. Rissing
- 4 "Teaching Controversial Topics in Biology: Evolution in the Classroom"
C. Moore
- 5 "Anolis lizards of the Greater Antilles: Using a phylogeny to test hypotheses"
J. Johnson, A. Collins
- 6 "Using Studies of Sexual Behavior to Engage Students in Scientific Inquiry"
J. P. Kurdziel
- 7 "Incorporating Independent Laboratory Research Projects into an Evolution Course"
D. Guay, M. Palopoli
- 8 "Natural Theology and Creation Science: Use of a historical perspective in teaching evolutionary theory to undergraduates"
C. A. Sheppard
- 9 "Evolution in our lifetimes: a laboratory exercise"
M. Wayne, A. Davis
- 10 "Evonet.org: a comprehensive Internet resource for research and education in evolutionary biology"
P. Phillips, C. Gates
- 11 "BugCamp: Construction of a searchable insect database. "
P. P. Parrillo, J. Zimmerman, Z. Preckwinkle, J. W. O. Ballard

SPECIATION AND HYBRID ZONES

- 12 "NUCLEAR AND MITOCHONDRIAL MARKERS REVEAL THE EXISTENCE OF TWO PARAPATRIC SCORPION SPECIES IN THE ALPS (SCORPIONES: EUSCORPIIDAE) "
V. Fet, B. Gantenbein, M. Barker, A. Scholl

- 14 "A Genetic Interpretation of Ecologically-Dependent Isolation"
H. D. Rundle, M. Whitlock
- 15 "Evidence for Ecologically-based Speciation in *Daphnia*: Using a Multi-locus Approach to Detect Regionally-sympatric Speciation Events"
M. Pfrender, K. Spitze, N. Lehman
- 16 "Studying the history of divergence between *Drosophila pseudoobscura* and its close relatives using multilocus sequence data. "
C. A. Machado, J. Markert, R. Kliman, J. Hey
- 17 "Population genetics of the origin and divergence of the *Drosophila simulans* complex species.
[Co-authors: P. Andolfatto, J. Coyne, F. Depaulis, and M. Kreitman], R. Kliman, J. Hey, J. Wakeley
- 18 "Global Population Structure in the Wandering Albatross Complex: Implications for Taxonomy"
T. M. Burg !, J. Croxall
- 19 "Pattern and process of speciation in *Allonemobius*"
W. E. Braswell, D. J. Howard
- 20 "Factors limiting hybridization between *Penstemon spectabilis* and *Penstemon centranthifolius*"
P. Wilson, J. Chari
- 21 "Genetic basis of reproductive isolation in *Drosophila pseudoobscura* and *D. persimilis*"
K. Grams, K. Smith, M. Noor
- 22 "Postmating prezygotic isolation in desert *Drosophila*"
L. L. Knowles, T. Markow
- 23 "Role of Sexual Selection in the Radiation of Montane Grasshoppers"
L. L. Knowles
- 24 "The genetics of reproductive isolation: reconciling the Dobzhansky-Muller model with post-zygotic crossing asymmetry"
L. Moyle
- 25 "Inheritance patterns by diploid and polyploid members of the hybrid *Leuciscus alburnoides* complex (Pisces, Cyprinidae) "
J. Alves, M. Manuela Coelho, L. Moreira da Costa !, M. J. Collares-Pereira
- 26 "COMPARATIVE CYTOGENETICS OF AFRICAN MALARIA MOSQUITOES ANOFELES FUNESTUS AND ANOFELES GAMBIAE"
I. Sharakhov, C. Mbogo, G. Yan
- 27 "Molecular and Morphological Evidence of Hybridization in *Pogonomyrmex* (Hymenoptera: Formicidae) "
K. Anderson, J. Smith
- 28 "Estimates of hybridization between endangered populations of red mulberry (*Morus rubra* L.) and the introduced white mulberry (*Morus alba* L.): molecular and morphological evidence."
K. S. Burgess

- 29 "Evidence of Introgression between *Daphnia mendotae* and *Daphnia dentifera*"
H. Sprenger, D. Taylor
- 30 "Genotypic differences between female castes in colonies of the ant *Pogonomyrmex rugosus*"
S. Helms Cahan, J. Parker, S. Rissing
- 31 "Limited genetic differentiation of two ecologically and morphologically distinct species of sea stars (*Leptasterias* spp.)"
D. Foltz, M. Coenen, J. Flowers
- 32 "Genetic Structure of three *Agave* species from the Sonoran Desert: an allopatric speciation process?"
A. Navarro-Quezada, R. Gonzalez, L. Eguiarte
- 33 "Epistasis and Speciation; A simulation study"
C. Goodnight
- 34 "Inheritance and evolution of dorsal fin coloration in Lake Malawi cichlid fishes "
D. McElroy, P. Reneau, I. Kornfield.
- 35 "Inter-specific pollen tube competition in wild *Nicotiana*."
M. Wunsch, A. Ippolito, T. Holtsford

 QTL AND GENE MAPPING

- 36 "Mapping Quantitative Trait Loci Affecting *Drosophila* Bristle Number in Multiple Environments"
C. Dilda, T. F. C. Mackay
- 37 "Complex genetic architecture of life span in *Drosophila melanogaster*"
J. Leips, T. F. C. Mackay
- 38 "Mapping Genes Affecting Starvation Resistance in *Drosophila melanogaster*"
S. T. Harbison, T. F. C. Mackay
- 39 "Recent findings in linkage map construction and QTL analysis of *Clarkia lingulata* and *Clarkia biloba* ssp. *australis*"
S. Ellberg, N. Sherman, K. Schierenbeck
- 40 "QTL Congenics: Mapping chromosome region-specific effects on chemotaxis in *Caenorhabditis elegans*"
K. Lundin, P. Phillips
- 41 "Comparative mapping of sex linkage in salmonid fishes "
R. Woram, K. Gharbi, R. Danzmann, B. Hoyheim, T. Sakamoto
- 42 "Major genes involved in Sexual Isolation in *Nasonia*; AFLP mapping of female mate discrimination."
B-J. Velthuis, T. van Opijnen, J. H. Werren
- 43 "AFLP and Mitochondrial Variation in Three *Nasonia* Species: Genetic Diversity and the Development of a 'Marker Pool' for QTL Mapping"
T. van Opijnen, J. D. Bartos, J. H. Werren

CONSERVATION ECOLOGY AND GENETICS

- 44 "SEPARATING THE EFFECTS OF HABITAT FRAGMENTATION, DEGRADATION AND LOSS ON CORAL COMMENSALS"
J. Caley, K. Buckley, G. Jones
- 45 "The effect of environmental pollutants on immunocompetence and morphological symmetry in the white-footed mouse, *Peromyscus leucopus*"
J. Biser, L. Vogel, S. Loew
- 46 "Identifying barriers to natural regeneration: An evaluation of the germination, survival, and growth of twenty native tree species planted in abandoned Panamanian pastures invaded by *Saccharum spontaneum* (AG) "
E. Hooper, R. Condit, P. Legendre, Smithsonian Tropical Research Institute
- 47 "Evaluation of Extinction Risk Factors in American Ginseng, *Panax quinquefolium*"
M.R. Anderson, S.S. Loew
- 48 "Microsatellite markers for the study of *Anaocypris hispanica*, a highly endangered Iberian cyprinid fish"
P. Salgueiro, G. Carvalho, M. M. Coelho
- 49 "Sex identification of field samples by amplification of a nuclear gene: Applications across primate taxa"
A. Ensminger, S. Hoffman
- 50 "Comparison of parametric and non-parametric statistical methods in individual classification. "
B. GUINAND, A. TOPCHY, W. PUNCH, K.T. SCRIBNER
- 51 "Genetic diversity of *Boltonia decurrens*, a threatened floodplain species, and *Boltonia asteroides*, its widespread congener. "
J. DeWoody, J. Nason, M. Smith
- 52 "Population genetics of the gopher tortoise (*Gopherus polyphemus*) "
T. Schwartz, S. Karl, H. Mushinsky, E. McCoy
- 53 "Genetic diversity in spatially structured populations of endangered giant kangaroo rats"
S.S. Loew, D.F. Williams, K. Ralls, R.C. Fleischer, K. Pilgrim
- 54 "The effect of corporate logging on the genetic diversity of *Acer saccharum* within the Great Smoky Mountains National Park"
R. Baucom, J. Estill, M. Cruzan
- 55 "Seed bank genetics of the cedar-glade endemic *Astragalus bibullatus*"
A. Morris, R. Baucom, M. Cruzan
- 56 "Genetic Divergence Inferred from Nested Phylogenetic Analysis of the Green Salamander, *Aneides aeneus* "
L.S. Maxson, K.A. Crandall
- 57 "Genetic and phylogenetic diversity of Unionid mussels in the Cuyahoga Valley, Ohio"
R.A. Krebs, R. Vlasceanu, M. J. S. Tevesz,

- 58 "Two species, two kipukas, two times: a molecular study 75 generations after Fontdevila and Carson's mark-recapture analysis of a Hawaiian *Drosophila* population."
C. Muir, D. Foote, D. Price

 BEHAVIORAL ECOLOGY AND SOCIAL EVOLUTION

- 59 "The effect of thermal stress on the mating behavior of male *Drosophila melanogaster*, *D. simulans*, and *D. mojavensis*: a comparative study"
Z. Patton, R. Krebs
- 60 "Expression and control of a behavioral polymorphism in the net-spinning caddisfly *Macrostemum carolina*"
G. Plague, J.V. McArthur
- 61 "The optimal timing of sex change in a protandrous plant."
R. Sargent, B. Roitberg
- 62 "The relationship between sensory modalities: An empirical study of a comparative hypothesis "
J.T. Thompson, E. Martins
- 63 "Environmental Influences on Color Variation and Ultraviolet Reflectance in the Grand Cayman Anole, *Anolis conspersus*."
J. Macedonia
- 64 "Lizard Threat displays as Respiratory Handicaps: the Logic of Breath-Holding Contests"
Y. Brandt
- 65 "The role of temperature as a benefit in the maintenance of sociality in social spiders, *Stegodyphus mimosarum* (Araneae: Erisidae) "
R. Slotow, T. Crouch, M. Bodasing, D. Weldon, N. Govender, R. Naidu, N. Adams
- 66 "Soldier allocation in a galling aphid"
J.G.A. Tyerman, B.D. Roitberg
- 67 "Communal egg-laying in the apple murex snail, *Phyllonotus pomum*: Substrate limitation or choice?"
C. Swanson
- 68 "Queen size, queen survival and colony fitness in harvester ants."
D. Wiernasz, B. Cole
- 69 "Kin selection as a mechanism of colony formation in *Metepeira*, a facultative group forager"
R. Sagel, R. DeBry, G. Uetz
- 70 "Pathogen load, nesting ecology, and disease resistance in termites."
J.E. Moustakas, J. F. A. Traniello, R.B. Rosengaus
- 71 "The social evolution of bacterial pathogenesis"
J. Smith

- 72 "Genetic structure and geographical distribution in sexual and asexual *Venturia canescens* (Hymenoptera) occurring in sympatry."
M. V. Schneider, L. Beukeboom, G. Driessen

 ANIMAL MATING SYSTEMS

- 73 "Male Presence Affects Ovarian Development of the Fly, *Anastrepha suspensa*"
A. Fritz
- 74 "'What will I do if males have gone?' cried the lonely Amazon (*Poecilia formosa*)"
L. Dries
- 75 "Relative fitness of two hermaphroditic mating types in the androdioecious clam shrimp, *Eulimnadia texana*"
S. Weeks, B. Crosser, M. Gray
- 76 "Monogamy, long-term pair bonds, and size-assortative mating in a seahorse: evidence from microsatellite-based studies of parentage"
A. Jones, C. Kvarnemo, J. Avise
- 77 "Consubspecific Sperm precedence in *Drosophila*"
D. Burkett, S. Dixon, M. Noor
- 78 "Ambiguity in Parental Contributions: Does it Exist and Does it Matter? "
A. Fiumera, M. Asmussen, Y. DeWoody, J. Avise
- 79 "Mating behavior in relation to outcrossing rates in an androdioecious crustacean, *Eulimnadia texana*."
C. Marquette, E. Latsch, S. Weeks
- 80 "Do female *Tribolium* beetles discriminate against 'poor' quality males?"
A. Pai, G. Yan
- 81 "Decoration Manipulation and Mating Success in the Satin Bowerbird"
S.W. Coleman, G. Patricelli, G. Borgia

 SEXUAL SELECTION

- 82 "Brawn doesn't always get the girl: mating success of dimorphic males in *Jassa marmorata*"
J. P. Kurdziel
- 83 "Body Size and Sexual Dimorphism in Wolf Spiders (Araneae: Lycosidae): Is Foraging Behavior Important?"
S. Walker, A. Rypstra
- 84 "Evolution of sexual size dimorphism in the lizard genus *Sceloporus*"
B. Knapp, D. Miles
- 85 "Endocrine control and evolutionary loss of sexual color signals in <*Sceloporus*> lizards: sister-species differences "
D. Hews, V. Quinn

- 86 "GENDER DIMORPHISM IN TWO SPECIES OF CONSOLEA LEM. (CACTACEAE): A CARIBBEAN ENDEMIC"
V. Negron-Ortiz, L. Strittmatter
- 87 "Predicting the Opportunity for Sexual Selection: An experimental evaluation of the effects of OSR and density. "
D. Fairbairn, A. Wilby
- 88 "Co-evolution of male and female reproductive characters: morphometric analysis of orb-weaving spider genitalia"
L. L. Knowles, A. Danielson-Francois
- 89 "Female signals affect male courtship display in the satin bowerbird, an experimental test with robotic females"
G. L. Patricelli, J. A. Uy, G. Borgia
- 90 "Evolution via sexual selection with evolving covariances and condition dependence."
P. D. Lorch, S. Proulx
- 91 "Sexual Selection and Social Behavior in Madagascan Poison Frogs (*Mantella laevis*)"
H. Heying
- 92 "Comparative allometry of reproductive success"
C. Schoff, S. Pitnick
- 93 "Analysis of the relationship between mating success and fertilization success in the water strider *Aquarius remigis*"
R. Vermette, D. Fairbairn
- 94 "Sexual selection and the evolution of sexual size dimorphism in *Sphenarium purpurascens* (Orthoptera: Pyrgomorphidae)."
I. Galicia, R. Cueva del Castillo, J. Núñez - Farfán
- 95 "A close look at the nascent stage of speciation"
J. A. Alipaz, C-I Wu
- 96 "A microsatellite analysis of mating behavior in the satin bowerbird "
K. Dryer, M. Braun, G. Borgia
- 97 "A +/- male house mice sire variable numbers of +/- fetuses in litters of unconfined pregnant house mice"
R. J. Baker, A. E. Miller, K. G. Ardlie, J. Reeves, C. Landel

 G X E AND PLASTICITY

- 98 "Changes in the Cost of Resistance to Herbicide Across a Stress Gradient"
A. J. Gassmann
- 99 "Spontaneous Mutation in *Arabidopsis thaliana*: genotype-environment interaction"
S-M Chang, R. Shaw

Poster Presentations

Saturday, June 24 & Sunday, June 26

- 100 "Genetics of plant response to resource gradients: QTL x light interactions in Arabidopsis"
D. A. Stratton
- 101 "Bristle number variation in *Drosophila* species along an environmental gradient in Israel."
R. Lyman, T. Mackay
- 102 "Density-dependent aposematism and the evolutionary ecology of locust swarm formation"
G. Sword
- 103 "The Evolutionary Ecology of Locust Swarm Formation"
G. Sword
- 104 "The causes of phenotypic plasticity in larval coloration in the swallowtail butterfly *Papilio polyxenes*"
W. Hazel
- 105 "Reaction norms and costs of plasticity of a predator induced morphological defence in a larval dragonfly"
F. Johansson
- 106 "Genetic Variation in Phytochrome-Mediated Shade Avoidance in Arabidopsis."
H. Smith, J. Botto, L. Bentsink
- 107 "Unraveling the Evolution of Melanism: Exploring Sources of Variation in Coccinellid Spot Patterns"
T. J. Vess
- 108 "Phenotypic plasticity on maturation time and body size in *Sphenarium purpurascens* (Orthoptera: Pyrgomorphidae)."
M. Moreno - Garcia, R. Cueva del Castillo, J. Núñez - Farfán
- 109 "Nourishment as an Important Factor in Social Evolution"
J. H. Hunt, I. Karsai
- 110 "Larval Caste Differentiation in Primitively Social Wasps?"
J. H. Hunt, N. A. Buck, D. E. Wheeler
- 111 "The effect of chromosomal inversions on flight morphology and physiology at different rearing temperatures in *Drosophila melanogaster*."
P. Barnes, K. Stellitano
- 112 "When should novel environments impact trait developmental stability? Evidence from Arabidopsis"
M. A. VanderMeulen, S. J. Tonsor
- 113 "AVOIDANCE AND TOLERANT STRATEGIES OF THE DESERT LILY TO RESIST HERBIVORY"
N. RUIZ, D. WARD, D. SALTZ

PHYLOGENY RECONSTRUCTION AND SYSTEMATICS

- 114 "Does *Symphysia* belong in *Vaccinium*?"
D. Stewart, J. Baltzer, S. vander Kloet

- 115 "Nuclear ribosomal DNA intergenic spacers and systematics of *Arabidopsis*"
D. A. Hayworth
- 116 "Incompatibility Analysis and the Phylogenetic Instability of Mesozoic Mammals "
M. Phillips
- 117 "Phylogenetic analyses of annelid relationships based on elongation factor-1alpha and RNA polymerase II sequence data: Implications for evolution of larval developmental modes "
T. Bonome, D. McHugh, J. M. Hay
- 118 "Phylogenetic relationships of nine-primaried oscines (Aves: Passeriformes) inferred from two different sets of mitochondrial DNA sequence data."
T. Yuri, D. Mindell
- 119 "Patterns of nuclear and mtDNA sequence variation in the genus *Rhagoletis*. "
J. B. Roethele, H. R. Dambroski, J. L. Feder, V. Gavrilovic , J. J. Smith, S. Berlocher, W. Perry
- 120 "Phylogenetic position of the snowberry fly, *Rhagoletis zephyria* (Diptera: Tephritidae) within the *R. pomonella* species group: Conflicting nuclear gene phylogenies "
V. Gavrilovic, W. L. Perry, J. B. Roethele, J. J. Smith
- 121 "Evolution of the Corona Complex in the genus *Melongena* (Gastropoda: Melongenidae): Evidence from internal transcribed spacer regions and microsatellite data. "
K. Hayes, S. Karl
- 122 "Of Mice and Mussels: a Perspective on the Ways to Deal with Long-Branch Problems"
D. Graf, J. Sparks
- 123 "The Phylogentic relationships of introduced *Aphelinus* (Hymenoptera: Aphelinidae), biological control agents of Russian wheat aphid (Homoptera: Aphididae)"
Q. Fang, Y-C Zhu, M Greenstone
- 124 "Evolution of Migratory Behavior in a New World Avian Lineage (genus *Catharus*)"
D. Outlaw, D. Girman
- 125 "Where do we stand with respect to the phylogeny of ticks in the subfamily *Rhipicephalinae*?"
A. Murrell, N. Campbell, S. Barker
- 126 "Molecular Systematics of Turtles Using a Nuclear Locus: Preliminary Results"
J. Krenz, F. Janzen
- 127 "Phylogeny of the Chilean freshwater crabs *Aeglidae* (Decapoda: Anomura) "
M. Perez-Losada, C. Jara, K. A. Crandall
- 128 "Phylogeny of *Syrphidae* (Diptera): morphological and molecular evidence "
G. Stahls, G. E. Rotheray, J. Muona, F. Gilbert
- 129 "Tests of ecdysozoan monophyly using molecular sequence data"
F. Anderson, P. Foster
- 130 "Phylogenetic Relationships among *Atherini* (Viperidae), Based on Cytochrome b Gene Sequences"
B. Noonan, D. Lawson

- 131 "A mitochondrial DNA phylogeny of the Neotropical butterfly genus *Anartia*, with remarks on hybridization of sister species"
M. Blum, E. Bermingham
- 132 "Molecular Systematics of the South American Caviomorph Rodents: Relationships Among Species and Genera in the Family Octodontidae"
D. L. Rowe, R. L. Honeycutt, M. H. Gallardo
- 133 "Phylogeny of an allotetraploid genus and its diploid progenitors based on chloroplast and single-copy nuclear DNA sequences."
R. Mason-Gamer, C. Anderson, N. Orme
- 134 "LINE-1 Elements as Markers of Mammalian Phylogenies"
H. A. Wichman
- 135 "A Burst of LINE-1 Transposition in the Cotton Rat, *S. mascatensis* "
L. Scott, D. Parish, R. A. Grahn, H. A. Wichman, R. J. Baker
- 136 "Use of LINE-1s for Phyllostomide Bat Phylogenies "
M. A. Cantrell, F. G. Hoffmann, K. P. Bush, H.A. Wichman, R.J.. Baker
- 137 "Identification of Tetraodontiformes (Teleostei, Pisces) using DNA polymorphism. "
M. Katoh, M. Kobayashi, K. Mito, K. Matsuura, Seikai
- 138 "Mitochondrial phylogeny of long-tailed neotropical parrots (Psittacidae, Aves)"
C. Miyaki, E. Tavares
- 139 "How accurate are extremely large phylogenetic trees?"
S. G. Brady, O. R. P. Bininda-Emonds, M. J. Sanderson
- 140 "Likelihood methods and the fungal origins of Microsporidia"
W. Fischer!, J. Palmer
- 141 "Myzostomida: a Link between Trochozoans and Flatworms"
I. Eeckhaut, D. McHugh, M. Milinkovitch
- 142 "Phylogeny and character evolution of tarantula spiders (Araneae: Theraphosidae) from a cladistic analysis of morphological traits."
S. Marshall, R. Raven, W. Hoeh
- 143 "Drawing Unrooted Phylogenies"
J. Felsenstein
- 144 "Rating the performance of phylogenetic methods in simulation: a meta-analysis."
J. Chung, J. Kim
- 145 "Reconstructing Ancient Demographies "
D.A. Vasco, E.A. Sinclair, K.C. Pellegrino, J. Sites, A. Arndt, K. Crandall
- 146 "Insights into the evolution of annelids and other spiralian based on intron positions and splice sites of elongation factor-1alpha"
C.M. Bellomo, D. McHugh, J. M. Hay

- 147 "Evolutionary trends of morphological traits in the Asteraceae: A comparative approach."
E. Morales
- 148 "Superimposition Methods for Landmark Data with an axis of Symmetry Present"
H. D. Sheets

BIOGEOGRAPHY

- 149 "Comparative biogeography of Horseshoe (Rhinolophidae) and Roundleaf (Hipposideridae) bats after molecular phylogenetics analysis: Role of the interaction between intrinsic biological and extrinsic geomorphological factors in shaping evolutionary diversification."
A. Guillén-Servent
- 150 "Tracking the *Polistes dominulus* invasion: Predictive modeling using bioinformatics databasing "
K. Pickett, L. Musetti, N. Johnson
- 151 "Caribbean Bat Biogeography: a Parsimony Analysis of Species Distributions (AG)"
J. C. Trejo-Torres, B. Rivera-Marchand
- 152 "PHYLOGEOGRAPHY OF THE RED-TAILED CHIPMUNK (*TAMIAS RUFICAUDUS*)"
J. Good, J. Sullivan
- 153 "Host specialists in threatened ecosystems: fungal population structure in fragmented mangrove forests"
J. Parrent, M. Garbelotto, G. Gilbert
- 154 "Molecular Sytematics of Selected Pit Viper Genera: *Atropoides* and *Cerrophidian*"
T. Castoe
- 155 "Intra-island phylogeography of Madagascar's native rodents"
S. Jansa
- 156 "Molecular Phylogenetics and Historical Biogeography of Three Species of Small Mammals from the Albertine Rift, East Africa"
M. Huhndorf, J. Kerbis Peterhans, S. Loew
- 157 "Founder Effect in New Zealand *Drosophila pseudoobscura* colonizing from North America"
J. Reiland, S. Hodge, M. Noor
- 158 "Biogeography, dispersal and evolution in Pacific *Psychotria* (Rubiaceae) inferred from non-coding nuclear and chloroplast sequences. "
M. Nepokroeffl, W. L. Wagner, E. A. Zimmer, K. J. Systma
- 159 "Phylogeny and biogeography of the Amazona ochrocephala parrot complex"
J. Eberhard, E. Bermingham
- 160 "Phylogeny and phylogeography of the North American radiation of damselflies of the genus *Ischnura* based on mitochondrial and nuclear data."
J. Morgan, J. Robinson, P. Chippindale

- 161 "Dates and rates: reconciling molecular and paleontological data in arvicoline rodents"
C. Conroy!, E. Hadly, C. Bell
- 162 "Chloroplast DNA evidence for the origin and evolution of Macaronesian island endemics in Tolpis (Asteraceae) "
M. Moore, J. Francisco-Ortega, A. Santos-Guerra, R. K. Jansen
- 163 "Hamlets: To Be or Not to Be"
M. Ramon, M. Sorenson, P. Lobel
- 164 "Phylogeography and Regional History of dusky-footed woodrats, *Neotoma fuscipes*."
M. Matocq
- 165 "Molecular Population Genetics of an Ozark Crayfish: A Test of the Nested Analysis Procedure in a Linear Habitat."
J. Fetzner, K. Crandall
- 166 "Biota from the Sundance Formation (Late Jurassic), northern Wyoming and southern Montana"
J. A. Santiago-Blay, C. C. Labandeira, L. J. Pribyl
- 167 "Historical biogeography and diversity of the scaphopod molluscs inferred from the fossil record."
P. D. Reynolds, K. Maguire
- 168 "A re-examination of the origin of tetraploidy in the Grey Treefrog complex"
H. Lynn, J. P. Bogart
- 169 "Nucleotide diversity in Fraser fir"
C. Clark, D. O'Malley

 TROPICAL BIOLOGY

- 170 "MODERN FOREST-SAVANNA BOUNDARY DYNAMICS AT THE SOUTHERN EDGE OF THE AMAZON "
S. N. Panfil, T. J. Killeen, C. J. Peterson, N. K. Mercado
- 171 "Forest types and forest succession in southern Yucatan, Mexico"
D. Perez-Salicrup, R. Foster, R. David
- 172 "Effect of *Sabal mexicana* Mart. palms on *Pteridium aquilinum* invaded fields in the Southern Yucatan Peninsula, Mexico"
K. Vitkay, D. Perez-Salicrup
- 173 "Presence of *Hypsiphylia grandella* in plantations of *Cedrela odorata* and *Swietenia macrophylla* in Calakmul"
M. Campeche, R. Esquivel, D. Perez-Salicrup
- 174 "Genetic and morphological divergence in the Australian skink *Carlia rhomboidalis*"
J. N. Kansagor, C. J. Schneider
- 175 "Foraging ecology of the giant Amazonian ant *Dinoponera gigantea* (Formicidae, Ponerinae)"
P. Oliveira, V. Fourcassie

- 176 "Demography and genetic structure in the dioecious climbing palm *Chamaedorea elatior* in a Mexican lowland rain forest."
R. Luna, V. Zarco-Espinosa, K. Oyama
- 177 "Vegetation structure and seedling eco-physiology of a Hawaiian dry forest"
M. Mejia-Chang, G. Goldstein

SPECIES INTERACTIONS

- 178 "Nectar robbing in jewelweed: when the pollinators ARE the robbers. "
H. Young, E. Harper, A. Snider, K. Shick, K. Barr
- 179 "How plants count moth eggs: effects of moth oviposition on ovule development in *Yucca filamentosa*"
D. Marr, O. Pellmyr
- 180 "Frequency-dependent selection on corolla color and deceptive pollination of *Psychilis monensis* (Orchidaceae) (AG)"
S. Aragon
- 181 "Environment-specific selection on floral traits of *Ipomopsis aggregata formosissima*"
C. Caruso
- 182 "Stimulating nectar resecretion in *Penstemon* flowers "
M. C. Castellanos, P. Wilson, J. D. Thomson, SUNY-Stony Brook
- 183 "Seed dispersal, pollination, and breeding systems of woody vegetation in tropical forests of NE Costa Rica"
S. A. Careaga, R. L. Chazdon
- 184 "The Evolution of Animal-Mediated Seed Dispersal Systems"
R. Yukilevich, H. F. Howe
- 185 "Tending ants protect honeydew-producing whiteflies (Homoptera: Aleyrodidae): An experimental study in a neotropical forest"
P. Oliveira, J. Queiroz
- 186 "Cospeciation and Horizontal Transmission of Avian Sarcoma and Leukosis Virus gag Genes in Galliform Birds "
D. Dimcheff, D. P. Mindell, S. V. Drovetsky, M. Krishnan
- 187 "Uniform Vertical Transmission and Selection in a Host-Symbiont System"
M. S. Sanchez, A. Hastings
- 188 "Diet breadth of Giant Swallowtail butterflies in south Florida"
A. Jameson
- 189 "Structure and diversity of fungal assemblages in leaf-litter across temperate and tropical forests "
G. Gilbert , I. Chapela
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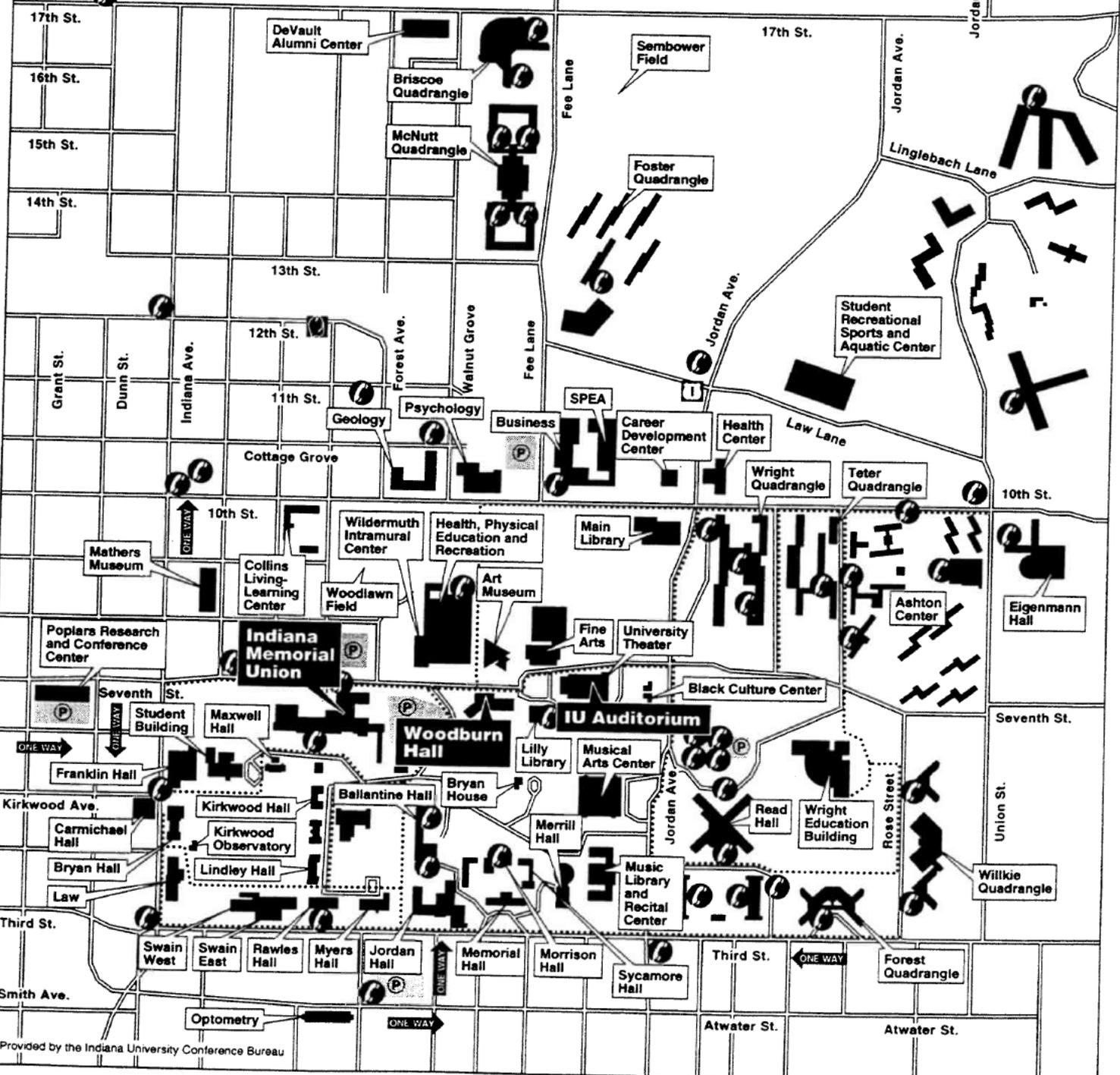
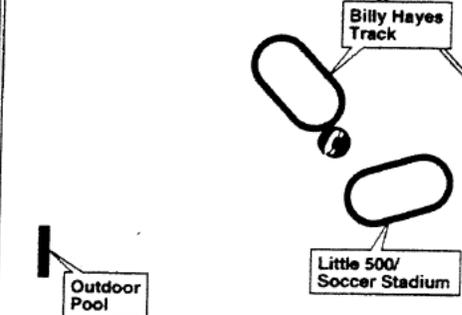
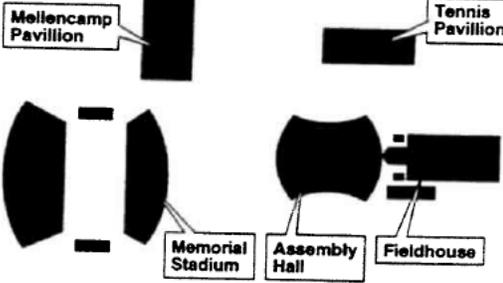
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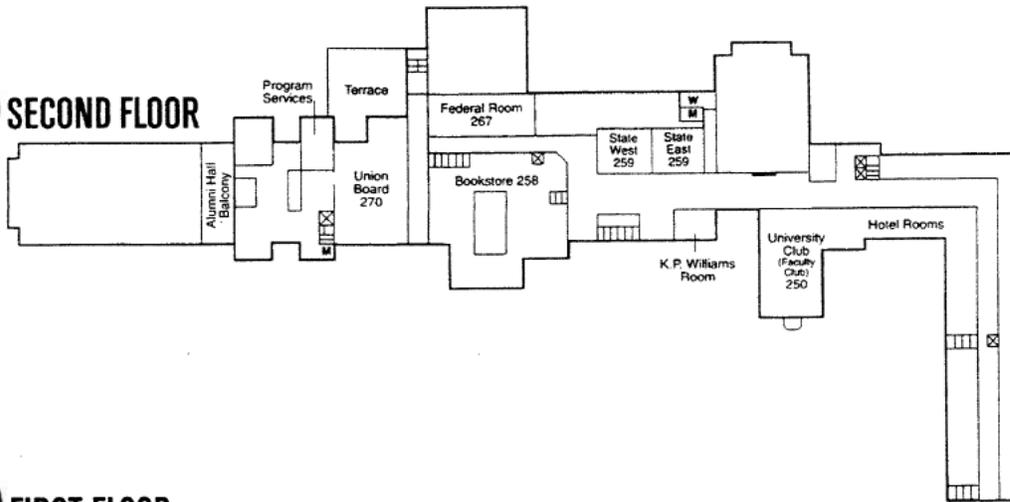
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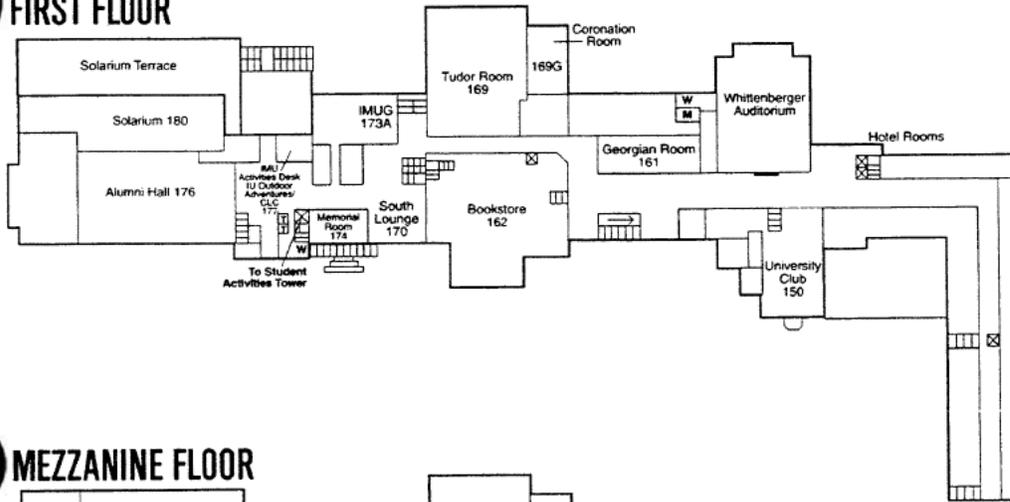
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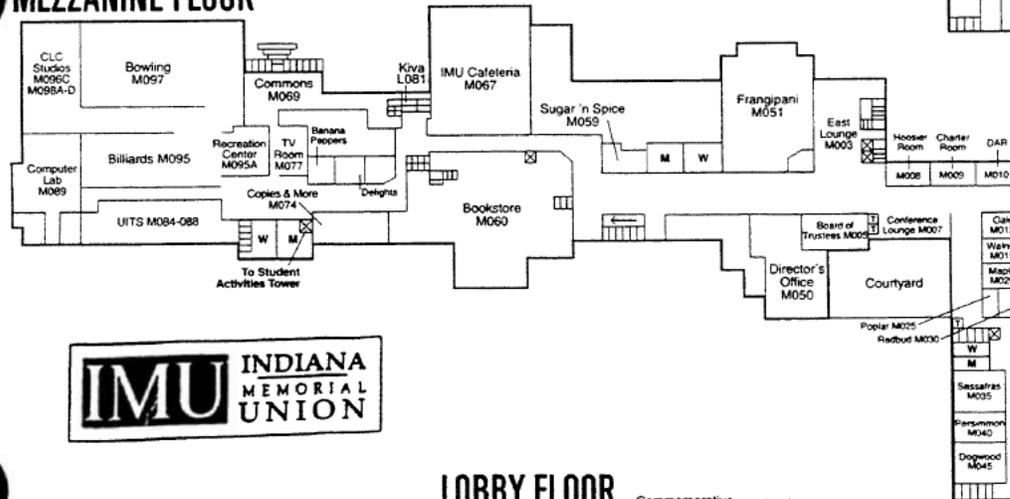
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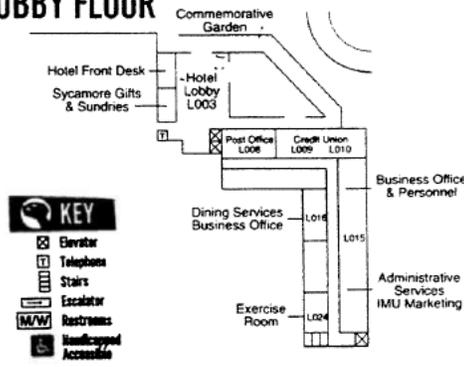
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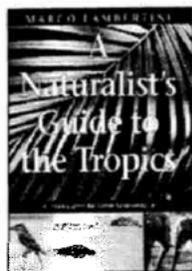
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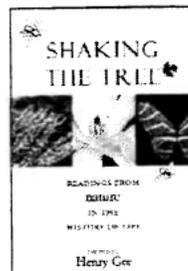
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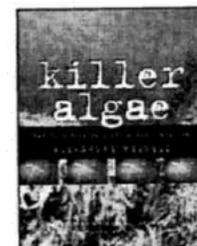
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