Program
Founding Congress

EUROPEAN SOCIETY FOR
EVOLUTIONARY BIOLOGY

Basel, Switzerland
26-30 August 1987

Organizers: S.C. Stearns and A.J. van Noordwijk
Zoologisches Institut
Rheinsprung 9
CH-4051 Basel, Switzerland
ph. (+41-61) 25-25-35

Locations: Kollegiengebäude, Petersplatz 1
(Scientific Sessions and Luncheon Meetings)

Zoology Institute, Rheinsprung 9
(Opening Reception and Business Meeting)

Safran Zunft, Gerbergasse 11
(Closing Banquet)
## Program Overview

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
<th>Title</th>
<th>Presiding</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>26th</td>
<td>1600</td>
<td>Red tape</td>
<td>Registration</td>
<td>Staff</td>
<td>Aula</td>
</tr>
<tr>
<td>1830</td>
<td></td>
<td>Social</td>
<td>Welcoming Reception</td>
<td>Stearns</td>
<td>Zoology</td>
</tr>
<tr>
<td>27th</td>
<td>0900</td>
<td>Plenary</td>
<td>Welcoming Remarks</td>
<td>Arber</td>
<td>Aula</td>
</tr>
<tr>
<td>0910</td>
<td></td>
<td>Plenary</td>
<td>Announcements</td>
<td>Stearns</td>
<td>Aula</td>
</tr>
<tr>
<td>0915</td>
<td></td>
<td>Plenary</td>
<td>Presidential Address</td>
<td>Cain</td>
<td>Aula</td>
</tr>
<tr>
<td>1000</td>
<td></td>
<td>Plenary</td>
<td>Selection or History?</td>
<td>Lewontin</td>
<td>Aula</td>
</tr>
<tr>
<td>1045</td>
<td></td>
<td>Social</td>
<td>Coffee</td>
<td>Staff</td>
<td>Aula</td>
</tr>
<tr>
<td>1115</td>
<td></td>
<td>A1. IS</td>
<td>The Evolution of Sex</td>
<td>Stearns</td>
<td>Aula</td>
</tr>
<tr>
<td>1115</td>
<td></td>
<td>A2. IS</td>
<td>Mass Extinctions</td>
<td>Hallam</td>
<td>HS 2</td>
</tr>
<tr>
<td>1115</td>
<td></td>
<td>A3. CP</td>
<td>Of Plants and Ecology</td>
<td>van Damme</td>
<td>HS18</td>
</tr>
<tr>
<td>1115</td>
<td></td>
<td>A4. CP</td>
<td>Of Flies and Neutrality</td>
<td>Pamilo</td>
<td>HS20</td>
</tr>
<tr>
<td>1315</td>
<td></td>
<td>Social</td>
<td>Lunch</td>
<td>Local restaurants</td>
<td></td>
</tr>
<tr>
<td>1315</td>
<td></td>
<td>Business</td>
<td>Council Meeting</td>
<td>Stearns</td>
<td>FakZim</td>
</tr>
<tr>
<td>1430</td>
<td></td>
<td>B1. IS</td>
<td>Life-History Evolution</td>
<td>Reyer</td>
<td>Aula</td>
</tr>
<tr>
<td>1430</td>
<td></td>
<td>B2. IS</td>
<td>Molecular Evolution</td>
<td>Bulmer</td>
<td>HS 2</td>
</tr>
<tr>
<td>1430</td>
<td></td>
<td>B3. CP</td>
<td>Of Mice and Meiosis</td>
<td>Valdeyron</td>
<td>HS18</td>
</tr>
<tr>
<td>1430</td>
<td></td>
<td>B4. CP</td>
<td>Development &amp; Evolution</td>
<td>Holder</td>
<td>HS20</td>
</tr>
<tr>
<td>1700</td>
<td></td>
<td>Plenary</td>
<td>Antennipedia in Evolution</td>
<td>Kauffman</td>
<td>Aula</td>
</tr>
<tr>
<td>1800</td>
<td></td>
<td>Poster</td>
<td>Poster Session</td>
<td>Authors</td>
<td>Gang</td>
</tr>
<tr>
<td>1900</td>
<td></td>
<td>Social</td>
<td>Dinner on the Rhine</td>
<td>Stearns</td>
<td>Rhine</td>
</tr>
<tr>
<td>28th</td>
<td>0900</td>
<td>Plenary</td>
<td>Migratory Behavior</td>
<td>Berthold</td>
<td>Aula</td>
</tr>
<tr>
<td>1000</td>
<td></td>
<td>Social</td>
<td>Coffee</td>
<td>Staff</td>
<td>Aula</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>C1. IS</td>
<td>Evolution of Migration</td>
<td>Bruderer</td>
<td>Aula</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>C2. IS</td>
<td>Fitness Decisions</td>
<td>Schmid</td>
<td>HS 2</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>C3. CP</td>
<td>Isozymes &amp; Mitochondria</td>
<td>Sharp</td>
<td>HS18</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>C4. CP</td>
<td>Plant Breeding Systems</td>
<td>Jacquard</td>
<td>HS20</td>
</tr>
<tr>
<td>1030</td>
<td></td>
<td>C5. CP</td>
<td>Speciation &amp; Pseudogamy</td>
<td>Vida</td>
<td>HS 1</td>
</tr>
<tr>
<td>Time</td>
<td>Speaker</td>
<td>Location</td>
<td>Title</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------------</td>
<td>----------</td>
<td>----------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0900</td>
<td>Werner Arber</td>
<td>Basel</td>
<td>WELCOMING REMARKS</td>
<td>Aula</td>
<td></td>
</tr>
<tr>
<td>0910</td>
<td>S.C. Stearns</td>
<td>Basel</td>
<td>ANNOUNCEMENTS</td>
<td>Aula</td>
<td></td>
</tr>
<tr>
<td>0915</td>
<td>Arthur Cain</td>
<td>Liverpool</td>
<td>PRESIDENTIAL ADDRESS</td>
<td>Aula</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>Richard Lewontin</td>
<td>Harvard</td>
<td>&quot;Evolution&quot;</td>
<td>Aula</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&quot;Selection or history? : The end of a struggle&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1045</td>
<td></td>
<td></td>
<td>COFFEE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1115-1315</td>
<td></td>
<td></td>
<td>SYMPOSIA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1.</td>
<td>THE EVOLUTION OF SEX</td>
<td>S.C. Stearns</td>
<td>Aula</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1115</td>
<td>Bruce Levin</td>
<td>U. Mass</td>
<td>&quot;Evolution of sex in the prokaryotes&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1155</td>
<td>Graham Bell</td>
<td>McGill</td>
<td>&quot;The comparative biology of recombination&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1235</td>
<td>Alan Grafen</td>
<td>Oxford</td>
<td>&quot;A new theory for the evolutionary maintenance of recombination&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2.</td>
<td>MASS EXTINCTIONS AND EVOLUTION</td>
<td>A. Hallam</td>
<td>IHS 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1115</td>
<td>Mike Benton</td>
<td>Belfast</td>
<td>&quot;Mass extinction and the quality of the fossil record of vertebrates&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1155</td>
<td>Antoni Hoffman</td>
<td>Warzawa</td>
<td>&quot;Mass extinctions: a critical overview of the controversy&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1235</td>
<td>Tony Hallam</td>
<td>Birmingham</td>
<td>&quot;How catastrophic was the end-Cretaceous mass extinction?&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A3.</td>
<td>CONTRIBUTED PAPERS</td>
<td></td>
<td>1115-1315  J. van Damme</td>
<td>IHS18</td>
<td></td>
</tr>
<tr>
<td>A4.</td>
<td>CONTRIBUTED PAPERS</td>
<td></td>
<td>1115-1315  P. Pamilo</td>
<td>IHS20</td>
<td></td>
</tr>
</tbody>
</table>
1315-1430 LUNCH
1315-1430 MEETING OF THE COUNCIL (over lunch)
1430-1630 SYMPOSIA

B1. LIFE-HISTORY EVOLUTION

1430 Eberhardt Curio Bochum H-U. Reyer Aula
"Parental investment decision rules and longevity"

1510 Paul Harvey Oxford
"The comparative approach to life-history evolution"

1550 Richard Law York Richard Law
"Life-history evolution and sustainable yields from populations experiencing age-specific culling"

B2. MOLECULAR EVOLUTION

1430 Paul Sharp Dublin M. Bulmer HS 2
"An evolutionary perspective of synonymous codon usage"

1510 Tom Quinn Kingston
"Molecular population genetics of the snow goose"

1550 Adrian Hill MRC Oxford
"Molecular surveys of globin genes in human populations"

B3. CONTRIBUTED PAPERS

1430-1630 G. Valdeyron HS18

B4. CONTRIBUTED PAPERS

1430-1630 N. Holder HS20

1630-1700 COFFEE

1700 Tom Kaufmann Indiana PLENARY ADDRESS Aula
"The Antennapedia Homeotic Gene Complex in the Ontogeny and Phylogeny of Drosophila"

1800-1900 POSTER SESSION Outside HS18 and HS20

1900 DINNER ON THE RHINE
Meet at the Verkehrsvrein, Schifflände
0900  Peter Berthold  Andechs  PLENARY ADDRESS  Aula
"Evolutionary aspects of migratory behavior in European Warblers"

1000-1030  COFFEE

1030-1230  SYMPOSIA

C1. THE EVOLUTION OF MIGRATION  B. Bruderer  Aula
1030  Hugh Dingle  Davis  "What are the consequences of migration for genetics and evolution?"

1110  Thomas Alerstam  Lund  "What is optimized in bird migration? The relative importance of time, energy and safety."

1150  Lukas Jenni  Sempach  "Differential bird migration and seasonal timing"

C2. STRATEGIC FITNESS DECISIONS  P. Schmid-Hempel  HS 2
1030  Alasdair Houston  Oxford  "Relating foraging to fitness"

1110  Peter Hammerstein  Seewiesen  "Strategies and payoffs in spider games"

1150  Nigel Franks  Bath  "Factory design, division of labor, and fitness in ants"

C3. CONTRIBUTED PAPERS  1030-1230  P. Sharp  HS18
C4. CONTRIBUTED PAPERS  1030-1230  P. Jacquard  HS20
C5. CONTRIBUTED PAPERS  1030-1230  G. Vida  HS 1
1230-1400  LUNCH
1300-1400  MEETING OF THE OFFICERS OF THE SOCIETY
1400-1600  SYMPOSIA

D1. OPTIMAL REPRODUCTION

1400  Joost Tinbergen  Heteren
"Optimal brood size in the Great Tit: a trade-off between current and future reproduction"

1440  Dirkjan Masman  Groningen
"Parental energetics and individual optimization of brood size in the kestrel"

1520  Alex Kacelnik and Innes Cuthill  Cambridge
"Food allocation between parent and young: evolutionary trade-offs and short-term parental decisions"

D2. POPULATION GENETICS

1400  Pekka Pamilo  Helsinki
"On the causes and consequences of sociality in haplodiploid insects"

1440  Dominique Anxolabéhère  Paris
"Population genetics and evolution of P transposable elements"

1520  Bengt Bengtsson  Lund
"The importance of chromosome mutations in evolution: Evidence from the common shrew"

D3. CONTRIBUTED PAPERS

D4. CONTRIBUTED PAPERS

D5. CONTRIBUTED PAPERS

1600-1630  COFFEE

1630  Erkki Haukioja  Turku
PLENARY ADDRESS
"What is important: evolving or living?"

1730-1830  POSTER SESSION
1830-1945  DINNER ARRANGED INDIVIDUALLY
2000-2130  BUSINESS MEETING TO FOUND THE SOCIETY
Grosser Hörsaal, Zoologisches Institut
0900 Helmut Zwölfer Bayreuth PLENARY ADDRESS Aula
"The evolution of host pattern in herbivorous insects"

1000-1030 COFFEE
1030-1230 SYMPOSIA

E1. THE EVOLUTION OF REPRODUCTIVE SYSTEMS P-H. Gouyon Aula

1030 G. Valdeyron Montpellier "Introductory history"
1045 Joost van Damme Heteren "On the significance of partial male sterility for the evolutionary dynamics of gynodioecy"
1115 Chris Gliddon Montpellier "Some problems with the concept of fitness in the evolution of reproductive systems"
1145 Steve Kelley Bangor "Diseases and the evolution of reproductive systems"

E2. THE ORIGIN OF DEVELOPMENTAL CONSTRAINT G. Wagner HS 2

1030 Nigel Holder London "The origin of developmental constraints in the evolution of the tetrapod limb"
1110 Gerd Müller Wien "Experimental approaches to the origin of developmental constraint"
1150 Brian Hall Halifax "The origin of developmental constraints as illustrated by the development and evolution of the skeleton"

E3. CONTRIBUTED PAPERS

1030-1230 W. Hamilton HS18

E4. CONTRIBUTED PAPERS

1030-1230 P. Berthold HS20
1230-1400  LUNCH
1230-1400  MEETING OF THE EDITORIAL BOARD
1400-1600  SYMPOSIA

F1. THE ROLE OF PARASITES IN EVOLUTION  A. Grafen  
1400  Charles Godfray  London  "Behavioral ecology of parasitic wasps"
1440  Anne Keymer and Andrew Read  Oxford  "Life-history variation in parasites and hosts"
1520  Bill Hamilton  Oxford  "Hereditary health and the prospects for good gene sexual selection"

F2. CONTRIBUTED PAPERS  1400-1600  A. Hoffman  HS18
F3. CONTRIBUTED PAPERS  1400-1600  G. Bell  HS20
F4. CONTRIBUTED PAPERS  1400-1600  E. Pasztor  HS 2
1600-1630  COFFEE
1630  Robert Barbault  Paris  PLENARY ADDRESS  Aula  
  "Population biology and evolutionary ecology in France: Current state and future prospects"
1710  Gabor Vida  Budapest  PLENARY ADDRESS  Aula  
  "Current state and future prospects of evolutionary biology in Hungary"

1900  BANQUET  Safran Zunft
2030  John Harper  Bangor  CLOSING COMMENTS

Sunday, August 30th  DEPARTURE  gute Reise!
A3. OF PLANTS AND ECOLOGY

1115 Konrad Bachmann, Amsterdam. "Speciation after long-distance dispersal in Microseris (Asteraceae)"

1135 Judith Bronstein, Montpellier. "Fig pollination: the consequences of conflicts in an obligate mutualism"

1155 Heidi Dobson, Uppsala. "Functional aspects of pollen odor in pollination biology"

1215 P. Kakes, Amsterdam. "Costs and benefits of defence in plants: The case of the cyanogenic system in Trifolium repens."

1235 Rainer Lösch, Kiel. "Evolution by selection of physiological characters of Macaronesian Sempervivoideae"

A4. NEUTRALITY AND CLINES

1115 Einar Arnason, Reykjavik. "Experimental tests of neutrality at the esterase 5 locus in Drosophila pseudoobscura"

1135 J.R. David, P. Capy, B. Delay, Gif-sur-Yvette. "Testing the neutral hypothesis of enzyme polymorphism by release of genetically marked flies in a natural population"

1155 Roderic Guigó Serra, Jordi Ocaña, Barcelona. "A model for larval viability." Post, no talk

1215 J. Bouletreau-Merle, Lyon. "Climal variation in initial retention and reactivity to insemination in Drosophila melanogaster as a fitness strategy"

1235 P. Lankinen, Oulu. "Latitudinal clines of photoperiodism and circadian rhythms in Drosophila"

1255 J. Lumme, R. Heino, J. Reinikainen, Oulu. "Genetic analysis of geographical distribution: a Drosophila case"
B3. OF MICE AND MEIOSIS

Valerie Bolomier, Montpellier. "Cytogenetics of Danish Robertsonian house mouse populations"

1450 Uzi Ritte, Jerusalem. "Changes in H-2 polymorphism in a wild population of the house mouse in Israel"

Franz Csaikl, Michael Habernig, Ulrike Csaikl, Wein. "Organization and evolution of a middle-repetitive DNA-family (MIF-1)"

1530 Flavie Vanlerberghe, Montpellier. "Analysis of a hybrid zone: Genetics of the interactions between 2 European semispecies of the house mouse"

1550 Barbara König, Basel. "Costs and benefits of cooperative nursing in house mice"

E. Olmo, G. Odierna, T. Capriglione, A. Moreschalchi, Genoa. "Karyology and phylogenesis of lizards"

B4. Development and Evolution

Nigel Holder

1430 Wolfgang Dohle, Berlin. "Changes of spiral cleavage during evolution"

1450 Larry Hufford, Zürich. "Floral ontogenetic evolution and phylogenetic patterns"

1510 Alessandro Minelli, Padova. "On the phylogeny of segmentation within the Articulata"

1530 Wim Scharloo, Utrecht. "Combination of genetic and developmental switch mechanisms by disruptive selection"

1550 Gerhard Scholtz, Berlin. "Evolution of germ band formation in the Malacostraca (Crustacea)"

1610 Kari Vepsäläinen, Helsinki. "Punctuated vs. gradualistic evolution - a solution to the controversy"
C3. ISOZYMES AND MITOCHONDRIA

1030 Anne Blanquer, Montpellier. "Gene flow between populations of *Platichthys flesus* in the Baltic and the North Seas"

1050 Hansjürg Geiger, A. Shapiro, A. Poster, B. Jakob, J. Lorante, Bern, Davis, Mexico City. "*Eucheria socialis* (Lepidoptera, Pieridae) - Loss of genetic variation as a consequence of population biology and range extension"

1110 Martino Rizzotti, J.Q. Zhao, M.J. Chen, M. Zanfei, Y.-T. Zeng, Padova, Shanghai. "Sequences of some tryptic peptides of eel Hemoglobin"

1130 Loredana Nigro, Padova. "First results on selection affecting two different mitochondrial genotypes"

1130 J.D. Partington, Swansea. "Genetic differentiation in British populations of the Arctic Char (*Salvelinus alpinus*)"

1210 Valerio Sbordoni, G. Allegrucci, F. Baldari, D. Cesaroni, R. Thorpe, Roma. "Evolutionary genetics and morphometrics of cave adapting species: the case of *Procambrus* (Crustacea, Decapoda) from Constitucion (Chiapas, Mexico)"

C4. PLANT BREEDING SYSTEMS

1030 Dan Cohen, Reuben Dukas, Jerusalem. "The optimal number of female flowers in plants"

1050 Martin Lechowicz, Michael Farris, Montreal. "The genetic basis of functional relationships among traits regulating the reproductive success of *Xanthum strumarium* (Compositae)"

1110 Steph Menken, Hans den Mijs, Amsterdam. "Breeding system dynamics in *Taraxacum* section *Vulgaria*"

1130 M.D. Ross, Peter Bredehöft, Göttingen. "Trioeey in ash (*Fraxinus excelsior*): A quantitative study of the breeding system with estimates of fitness, asymmetry and functional sex"
1150  Jacqui Shykoff, Basel. "The maintenance of sex polymorphism in Silene acaulis (Caryophyllaceae) through fecundity differences, inbreeding depression and sexual selection"

1210  Richard Abbott, St. Andrews. "Demographic genetics of a polymorphism for outcrossing rate"

C5.  Speciation and Pseudogamy  Karl Vepsäläinen  HS 1

1030  Shane McEvey, Gif-sur-Yvette. "Coadapted recognition systems evolve from diverse sexual behavior"

1050  Mart C.M. DeJong, Leiden. "A model for mate recognition systems, evaluating their importance in speciation"

1110  Anneli Hoikkala, Ronald Hoy, Kenneth Kaneshiro, Oulu, Honolulu. "Mysterious high-frequency clicking sounds of Hawaiian picture-winged Drosophila species"

1130  Larry Kirkendall, J. Kaukinen, A. Saura, Oslo. "Within- and between-population genetic diversity for sexuals and clones in the pseudogamous bark beetle Ips acuminatus"

1150  Sahis Drosopoulos, Athens. "Pseudogamy: Further evidence for its origin and role in speciation"

1210  M.W. Sabelis, Leiden. "Evolution of pseudoarrhenotoky in phytoseiid mites"
D3. Parasites and Evolution. Anne Keymer

1400 Agur Zvia, Weizmann Institute. "The evolution of variability in pathogens and hosts"

1420 C. Combes, Perpignan. "What do we know about the evolution of human schistosomes?"

1440 André Theron, Perpignan. "Cercarial emergence rhythms of schistosomes: adaptive significance"

1500 Joseph Jourdan, Perpignan. "An evolutionary approach to the interactions between schistosomes of the terminal-spined group and their vector snails"

1520 A. Fleuriet, Aubière. "D. melanogaster and the hereditary Sigma virus: invasion of a natural population by a better adapted viral type"

1540 S.F. Hubbard, Dundee. "Oviposition and the avoidance of superparasitism in solitary parasitic wasps"

D4. SEX AND SURVIVAL. Richard Law

1400 G. Ernsting, Amsterdam. "Aging and the cost of reproduction"

1420 Leo Luckinbill, J.L. Graves, Detroit. "Localizing genes that defer senescence in Drosophila melanogaster"

1440 Jan Kozlowski, Kraków. "Sigmoid growth curves result from the optimal allocation of energy to growth and reproduction"

1500 Marino Gatto, Milano. "Optimal body growth versus risky reproduction"

1520 L. Linton, R. Sibly, P. Calow, Sheffield. "Computer testing of life-history theory"

1540 Gabriella Sella, Torino. "Evolution of cooperative behavior in the reproductive system of a simultaneously hermaphroditic polychaete worm"
D5. **FIT INSECTS BEHAVE WELL**  
Hugh Dingle  
HS 1

1400 I.F. Harvey, Dundee. "Territorial behavior and copulatory success in dragonflies"

1420 Tom van der Have, A.F.G. Bourke, Utrecht. "Genetic colony structure and alternative slave-making in the ant *Harpagoxenus sublaevis*"

1440 Robin Moritz, Erlangen. "Individual and group selection in honeybees"

1500 J.J. Boomsma, Utrecht. "Variable relatedness asymmetry and extreme sex ratios in social Hymenoptera"

1520 Riitta Savolainen, Helsinki. "The effect of red wood ants on the fitness of *Formica fusca*"

1540 Peter Wirtz, Freiburg. "An extreme case of interspecific territoriality: male *Anthidium manicatum* (Hymenoptera, Megachilidae) maim and kill intruders"
E3. FIT BIRDS BEHAVE, PERHAPS

1030 Rauno Alatalo, Jyväskylä. "Patterns of variation of tail ornaments in birds"

1050 Carlos Bernstein, Alex Kacelnik, John Krebs, Lyon, Cambridge and Oxford. "Individual decisions and the distribution of predators in a patchy environment"

1110 Brent Danielson, Oslo. "The best memory for temporal variability: How much forgetting is optimal?"

1130 Tim Guilford, Marian Stamp Dawkins, Oxford. "Search images not proven: a reappraisal of recent evidence"

1150 Lars Gustafsson, Uppsala. "Illusive evolution: the role of the environmental component in Collared Flycatchers"

1210 A.P. Möller, Uppsala. "Testes size, ejaculate quality, and sperm competition in birds"

E4. Life-History Theory


1050 Geza Meszena, Budapest. "Density-dependent life-history strategies in seasonally growing populations: a general mathematical approach"

1110 Eva Ludvig, Liz Pasztor, Budapest. "A reconsideration of geographical variation in clutch size"

1130 Eva Kisdi, Geza Meszena, Budapest. "Fertility selection with trade-offs between fitness components"

1150 A. Clamens, H. Gaubert, Montpellier. "Four different environments for Tits: Do the populations evolve different breeding strategies in each of them?"

1210 Bernt-Erik Saether, Trondheim. "Life history evolution in birds"
F2. De Omnibus Rebus

1400 Sigurd v. Boletzky, Banyuls. "Life-history evolution in cephalopods"

1420 S. Moya, J. Agusti, Sabadell. "Tempo and mode in the evolution of the fossil Balearic goat Myotragus"

1440 Peter Sheldon, Dublin. "Gradualistic evolution in the trilobite Cnemidopyge"


1520 Sandro Cavicchi, V. Natali, D. Guerra, G. Giorgi, Bologna. "Temperature-related divergence in experimental populations of D. melanogaster: III. Wing compartments as units of selection"

1610 Bruno Streit, Thomas Städler, Frankfurt. "Phenotypic and genetic variability among field populations of Ancylus fluviatilis (Gastropoda: Basommatophora)"

F3. Theoretical and Demographic Genetics

1400 Joe Travis, Tallahassee. "Natural selection and maintenance of male size variation in the Sailfin Molly, Poecilia latipinna"

1420 Joel Tresler, St. Petersburg. "Hierarchical organization of genetic variation in the Sailfin Molly, Poecilia latipinna"

1440 Reinhard Bürger, Wien. "The maintenance of polygenic variation: Deterministic versus stochastic models"

1500 J.L. Graves, Jr., Leo Luckinbill, Detroit. "The effects of selection for life span on flight duration in Drosophila melanogaster"

1520 Lloyd Goldwasser, Oxford. "Interactions as resources"

1540 L. Ulizzi, A. Novelletto, L. Terrenato, Roma. "Demographic genetics as a tool in evolutionary biology studies"
F4. Life histories, Body Size, Selection

Liz Pasztor

1400 Henri Andre, Tervuren. "Complex life cycles as the key factor in species diversification of the arthropods"

1420 J.J.D. Greenwood, Dundee. "Frequency dependent selection by predators of aposematic prey"

1440 Finn Kjellberg, Montpellier. "Density dependent interspecific competition based on sex ratios"

1500 Juan Moreno, Uppsala. "Winter energetics of coniferous forest tits, Paridae, in the North: the implications of body size"


1540 Andrea Pugliese, Povo. "Optimal life history models for perennial plants: applications to Smilacina racemosa"
Group 1: Sex ratios and Sexual Selection

1. Jouni Aspi, Timo Helle. Oulu. Facultative sex ratio manipulation in reindeer?


3. David Unger. Tübingen. Can the long tail of the Quetzal (*Pharomachrus mocinno*) be explained by a Fisherian runaway process?

Group 2: The Expression and Evolution of Quantitative Traits


5. Sharon Forster. Tallahassee. Thermal tolerance in the Least Killifish: Genetic differentiation or phenotypic plasticity?


Group 3: Genetic and Phenotypic Variation


10. Donatella Cesaroni, G. Allegrucci, C. Angelici, T. Racheli, and V. Sbordoni. Roma. Allozymic and morphometric analysis of populations in the *Zygaena minos-purpuralis* complex (Lepidoptera)


12. R. Scacchi, P. Lanzara, G. De Angelis. Roma. Electrophoretic variability studies in three *Epipactis* species (Fam. Orchidaceae)
POSTERS


(15) Siegfried Scherer. Konstanz. Proteins as molecular clocks of evolution?

Group 4: Molecular Evolution

(16) Andreas Dally. Montpellier. RFLP of rice chloroplast DNA confirms the hypothesized evolutionary scenario.


(18) Claudine Montlegard. Montpellier. Albumin comparison of several species of rodents by ELISA.


Group 5: Reproduction and Behavior


(21) Ann Erlandsson. Lund. Prey sharing in the water cricket Velia caprai (Tham.)


(24) Michel Vancassel. Rennes. Can variations in female earwig parental behavior be considered as adaptations?

Posters


Group 6: Selection, Kin and Otherwise


(28) Saverio Forestiero, L. Bullini and V. Sbordoni. Roma. Individual vs. kin selection: survival data from aposmatic moths in predation experiments.


(31) M.L. Whitehouse. Dyfed. Stabilizing selection on rib number in the cockle *Cerastoderma edule*.

Group 7: Speciation and Isolation

(32) Alberta Boato. Padova. Genetic diversity, microevolution and speciation in the NW-Mediterranean snail Genus *Solatopupa*

(33) Francois Catzeflis. Montpellier. When did the New World "rats and mice" arrive in South America? An indirect answer for a classical question.


Group 8: The Natural History of Equations

(38) Wilfried Gabriel. Plön. Vertical migration of zooplankton is an evolutionarily stable strategy.


Group 9: Plant Ecology and Genetics


(43) Roselyne Lumaret. Montpellier. Adaptive strategies and polyploidy in *Dactylis glomerata* L.

(44) Silvia Perotto. Torino. Ecological and evolutionary aspects of mycorhizal symbiosis.


Group 10: Clutch Size and Flocking in Birds


(48) M. Linden. Uppsala. Clutch size and fitness in Great Tits.

(49) Tamas Szekely and T. Szép. Budapest. Experimental tests of hypotheses on mixed-species flocking in birds of deciduous forests.

POSTERS

Group II: Parthenogenesis and Viviparity


(54) Lawrence Weider. Plön. Clonal diversity in high-arctic populations of apomictic Daphnia pulex.

Group II: De Omnibus Rebus


We gratefully acknowledge the support of:

Schweizerischer Nationalfonds
Kontaktgruppe für Forschungsfragen der Basler Chemie-Industrie
Freiwillige Akademische Gesellschaft
European Network of Plant Population Biologists
Emil Dreyfus Fonds der Universität Basel
Schweizerischer Bankverein
Schweizerische Bankgesellschaft
Schweizerische Kreditanstalt
Zoologisches Institut der Universität Basel
MEMBERSHIP FORM

EUROPEAN SOCIETY FOR EVOLUTIONARY BIOLOGY

Membership in the Society costs CHF 100.- per year for regular members. It brings with it a subscription to the Journal of Evolutionary Biology. The first Volume will be 1988. People living at the same address may share a subscription to the Journal and join the Society for CHF 10.- per year. (If you join for 1987 then you support the Society and its Founding Congress but get no Journal.) Subscriptions for institutions, libraries, etc., cost CHF 210.- per year and should be arranged with the publisher.

Payment should be made in Swiss francs to

Account 11-808 325, Swiss Bank Corp, Marktplatz, CH-4000 Basel.

The Postal Giro of the Bank is 40-216-9. People applying from outside Europe should send a cashier’s check or postal money order. Personal checks will not be accepted.

Please return this form to the Secretary of the Society, Dr. A.J. van Noordwijk, Zoology Institute, Rheinsprung 9, CH-4051 Basel.

LAST NAME: ____________________________________________
FIRST NAME ____________________________________________
ADDRESS: ______________________________________________

Postal Code ____________________________________________

Type of membership:  
(choose one)  
Regular CHF 100 
Family CHF 10  
Life CHF 2000  
Sustaining CHF 5000

Payment enclosed ☐  To start in 1987 (no Journal) ☐
Payment to Bank ☐  To start in 1988 (Journal) ☐