

Boomsma

1

Program Founding Congress



**Basel, Switzerland
26-30 August 1987**

Organizers: S.C. Stearns and A.J. van Noordwijk
Zoologisches Institut
Rheinsprung 9
CH-4051 Basel, Switzerland
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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

<u>Date</u>	<u>Time</u>	<u>Activity</u>	<u>Title</u>	<u>Presiding</u>	<u>Place</u>	
26th	1600	Red tape	Registration	Staff	Aula	
	1830	Social	Welcoming Reception	Stearns	Zoology	
27th	0900	Plenary	Welcoming Remarks	Arber	Aula	
	0910	Plenary	Announcements	Stearns	Aula	
	0915	Plenary	Presidential Address	Cain	Aula	
	1000	Plenary	Selection or History?	Lewontin	Aula	
	1045	Social	Coffee	Staff	Aula	
	1115	A1. IS	The Evolution of Sex	Stearns	Aula	
	1115	A2. IS	Mass Extinctions	Hallam	HS 2	
	1115	A3. CP	Of Plants and Ecology	van Damme	HS18	
	1115	A4. CP	Of Flies and Neutrality	Pamilo	HS20	
	1315	Social	Lunch	Local restaurants		
	1315	Business	Council Meeting	Stearns	FakZim	
	1430	B1. IS	Life-History Evolution	Reyer	Aula	
	1430	B2. IS	Molecular Evolution	Bulmer	HS 2	
	1430	B3. CP	Of Mice and Meiosis	Valdeyron	HS18	
	1430	B4. CP	Development & Evolution	Holder	HS20	
	1700	Plenary	Antennipedia in Evolution	Kauffman	Aula	
	1800	Poster	Poster Session	Authors	Gang	
	1900	Social	Dinner on the Rhine	Stearns	Rhine	
	28th	0900	Plenary	Migratory Behavior	Berthold	Aula
		1000	Social	Coffee	Staff	Aula
	1030	C1. IS	Evolution of Migration	Bruderer	Aula	
	1030	C2. IS	Fitness Decisions	Schmid	HS 2	
	1030	C3. CP	Isozymes & Mitochondria	Sharp	HS18	
	1030	C4. CP	Plant Breeding Systems	Jacquard	HS20	
	1030	C5. CP	Speciation & Pseudogamy	Vida	HS 1	

SCIENTIFIC PROGRAM

-----Thursday, August 27th, Morning -----

0900	Werner Arber	Basel	WELCOMING REMARKS	Aula
0910	S.C. Stearns	Basel	ANNOUNCEMENTS	Aula
0915	Arthur Cain	Liverpool	PRESIDENTIAL ADDRESS	Aula
			"Evolution"	
1000	Richard Lewontin	Harvard	PLENARY ADDRESS	Aula
			"Selection or history? : The end of a struggle"	
1045		COFFEE		
1115-1315		SYMPOSIA		
A1.	THE EVOLUTION OF SEX		S.C. Stearns	Aula
1115	Bruce Levin	U. Mass	"Evolution of sex in the prokaryotes"	
1155	Graham Bell	McGill	"The comparative biology of recombination"	
1235	Alan Grafen	Oxford	"A new theory for the evolutionary maintenance of recombination"	
A2.	MASS EXTINCTIONS AND EVOLUTION	A. Hallam		HS 2
1115	Mike Benton	Belfast	"Mass extinction and the quality of the fossil record of vertebrates"	
1155	Antoni Hoffman	Warzawa	"Mass extinctions: a critical overview of the controversy"	
1235	Tony Hallam	Birmingham	"How catastrophic was the end-Cretaceous mass extinction?"	
A3.	CONTRIBUTED PAPERS		1115-1315 J. van Damme	HS18
A4.	CONTRIBUTED PAPERS		1115-1315 P. Pamilo	HS20

----- Thursday, 27th August, Afternoon -----

1315-1430	LUNCH
1315-1430	MEETING OF THE COUNCIL (over lunch)
1430-1630	SYMPOSIA

B1. LIFE-HISTORY EVOLUTION			H-U. Reyer	Aula
1430	Eberhardt Curio	Bochum	"Parental investment decision rules and longevity"	
1510	Paul Harvey	Oxford	"The comparative approach to life-history evolution"	
1550	Richard Law David Grey	York	"Life-history evolution and sustainable yields from populations experiencing age-specific culling"	
B2. MOLECULAR EVOLUTION			M. Bulmer	HS 2
1430	Paul Sharp	Dublin	"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 <i>Drosophila</i> "				
1800-1900	POSTER SESSION	Outside HS18 and HS20		
1900	DINNER ON THE RHINE			

Meet at the Verkehrsverein, Schiffslände

----- Friday, August 28th, Morning -----

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

----- Friday, August 28th, Afternoon -----

1230-1400	LUNCH			
1300-1400	MEETING OF THE OFFICERS OF THE SOCIETY			
1400-1600	SYMPOSIA			
D1. OPTIMAL REPRODUCTION		J. Tinbergen		Aula
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		B.O. Bengtsson		HS 2
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		1400-1600 A. Keymer		HS18
D4. CONTRIBUTED PAPERS		1400-1600 R. Law		HS20
D5. CONTRIBUTED PAPERS		1400-1600 H. Dingle		HS 1
1600-1630	COFFEE			
1630	Erkki Haukioja	Turku	PLENARY ADDRESS	Aula
			"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			

----- Saturday, August 29th, Morning -----

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

P. Berthold
1030-1230 W. Hamilton HS18

E4. CONTRIBUTED PAPERS

P. Berthold
Harvey
1030-1230 HS20

----- Saturday, August 29th, Afternoon -----

1230-1400 LUNCH
1230-1400 MEETING OF THE EDITORIAL BOARD
1400-1600 SYMPOSIA

E1. THE ROLE OF PARASITES IN EVOLUTION A. Grafen

Aula

1400 Charles Godfray . London "Behavioral ecology of parasitic wasps"

1440 Anne Keymer and Oxford "Life-history variation in Andrew Read parasites and hosts"

1520 Bill Hamilton Oxford "Hereditary health and the prospects for good gene sexual selection"

E2 CONTRIBUTED PAPERS

1400-1600 A. Hoffman

UC18

E3 CONTRIBUTED PAPERS

1400-1600 C. Bell

11630

E4. CONTRIBUTED PAPERS

1400-1600 E. Bent

HIC 3

1600-1630 COFFEE

1630 Robert Bartholomé Basic PLENARY ADDRESS

"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 Safer Zunft

2030 John Harper Ranger CLOSING COMMENTS

Sunday, August 30th DEPARTURE gute Reise!

-- CONTRIBUTED PAPERS THURSDAY AUGUST 27TH MORNING --

A3. OF PLANTS AND ECOLOGY J. van Damme HS18

- 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 Semperfivoideae"

A4. NEUTRALITY AND CLINES Pekka Pamilo HS20

- 1115 Einar Arnason, Reykjavík. "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." *Poster, no talk*
- 1215 J. Bouletreau-Merle, Lyon. "Clinal 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"

-- CONTRIBUTED PAPERS THURSDAY, AUGUST 27TH AFTERNOON --

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- B3. OF MICE AND MEIOSIS Georges Valdeyron HS18
- 1430 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"
- 1510 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"
- 1610 E. Olmo, G. Odierna, T. Capriglione, A. Moreschalchi, Genoa. "Karyology and phylogenesis of lizards"
- B4. Development and Evolution Nigel Holder HS20
- 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"

-- CONTRIBUTED PAPERS FRIDAY, AUGUST 28TH MORNING --

C3. ISOZYMES AND MITOCHONDRIA Paul Sharp HS18

- 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. "*Eucheira 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"
- 1150 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 *Procambarus* (Crustacea, Decapoda) from Constitucion (Chiapas, Mexico)"

C4. PLANT BREEDING SYSTEMS Pierre Jacquard HS20

- 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 *Xanthium strumarium* (Compositae)"
- 1110 Steph Menken, Hans den Mijs, Amsterdam. "Breeding system dynamics in *Taraxacum* section *Vulgaria*"
- 1130 M.D. Ross, Peter Bredehöft, Göttingen. "Trioeicy in ash (*Fraxinus excelsior*): A quantitative study of the breeding system with estimates of fitness, asymmetry and functional sex"

-- CONTRIBUTED PAPERS FRIDAY, AUGUST 28TH MORNING --

- 1150 **Jacqui Shykoff, Basel.** "The maintenance of sex polymorphism in *Silene acaulis* (Caryophylaceae) through fecundity differences, inbreeding depression and sexual selection"
- 1210 **Richard Abbott, St. Andrews.** "Demographic genetics of a polymorphism for outcrossing rate"

g.Vida

- C5. **Speciation and Pseudogamy** Kari 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"

-- CONTRIBUTED PAPERS FRIDAY, AUGUST 28TH AFTERNOON --

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- D3. Parasites and Evolution Anne Keymer HS18
- 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 Jourdane, 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 HS20
- 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"

- CONTRIBUTED PAPERS FRIDAY, AUGUST 28TH AFTERNOON -

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| D5. | <u>FIT INSECTS BEHAVE WELL</u> | 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 <i>Harpagoxenus sublaevis</i> " | |
| 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 <i>Formica fusca</i> " | |
| 1540 | Peter Wirtz, Freiburg. | "An extreme case of interspecific territoriality: male <i>Anthidium manicatum</i> (Hymenoptera, Megachilidae) maim and kill intruders" | |

- CONTRIBUTED PAPERS SATURDAY, AUGUST 29TH MORNING --

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| <u>E3.</u> | <u>FIT BIRDS BEHAVE, PERHAPS</u> | <u>Peter Berthold</u> | <u>HS18</u> |
|------------|----------------------------------|-----------------------|-------------|
- 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. Møller, Uppsala.** "Testes size, ejaculate quality, and sperm competition in birds"
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| <u>E4.</u> | <u>Life-History Theory</u> | <u>Paul Harvey</u> | <u>HS20</u> |
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- 1030 **Liz Pasztor, Budapest.** "A conceptual framework for reconsidering life-history evolution"
- 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"

-- CONTRIBUTED PAPERS SATURDAY, AUGUST 29TH AFTERNOON --

- F2. De Omnibus Rebus Antoni Hoffman HS18
- 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*"
- 1500 Pierre Joly. Lyon. Predatory strategy in the alpine newt: a field study.
- 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 Graham Bell HS20

- 1400 Joe Travis, Tallahassee. "Natural selection and maintenance of male size variation in the Sailfin Molly, *Poecilia latipinna*"
- 1420 Joel Trexler, St. Petersberg. "Hierarchical organization of genetic variation in the Sailfin Molly, *Poecilia latipinna*" *given by Travis*
- 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. Novello, L. Terrenato, Roma. "Demographic genetics as a tool in evolutionary biology studies"

- CONTRIBUTED PAPERS SATURDAY, AUGUST 29TH AFTERNOON --

E4. Life histories, Body Size, Selection Liz Pasztor

HS2

- 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"
- 1520 **Thierry Pilorge, J. Clobert, Paris.** "Is body size a central parameter in the life history of the common lizard?"
- 1540 **Andrea Pugliese, Povo.** "Optimal life history models for perennial plants: applications to *Smilacina racemosa*"

POSTERS

Group 1: Sex ratios and Sexual Selection

- (1) Jouni Aspi, Timo Helle. Oulu. Facultative sex ratio manipulation in reindeer?
- (2) Marc Bergmans. Brussels. Structured demes and the sex ratio in *Tisbe pori* (Copepoda)
- (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

- (4) Giancarlo Fava and Corrado Fusari. Venezia. Variations of quantitative traits and asymmetry in marine and lagoon populations of the copepod *Tisbe holothuria*, grown under different salinities.
- (5) Sharon Forster. Tallahassee. Thermal tolerance in the Least Killifish: Genetic differentiation or phenotypic plasticity?
- (6) Sabine Henrich, A.J. van Noordwijk. Basel. Genetic basis of nestling growth in Great Tits.
- (7) Martin Gebhardt, S.C. Stearns. Basel. The quantitative genetics of reaction norms for life-history traits in *Drosophila mercatorum*.
- (8) Steve Stearns, Jacob Koella, Martin Gebhardt, Arie van Noordwijk. Basel. A new hypothesis for the maintenance of genetic variation in fitness components in natural populations.

Group 3: Genetic and Phenotypic Variation

- (9) Fabio Bernini, Anna Maria Avanzati, Romano Petrucci. Siena, Roma. Genetic variation in the Genus *Steganacarus* (Acarida: Oribatida)
- (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)
- (11) Rodolfo Costa. Padova. An enzymatic polymorphism involved in reproduction in *D. melanogaster* and *D. simulans*.
- (12) R. Scacchi, P. Lanzara, G. De Angelis. Roma. Electrophoretic variability studies in three *Epipactis* species (Fam. Orchidaceae)

POSTERS

- (13) F. Spirito, C. Rossi, M. Rizzoni. Roma. Interactions among multiple chromosome mutations in an island model.
- (14) J.P. Wacquant and J. Baus. Picard. Montpellier, France, and Chapingo, Mexico. Differentiation of nutritional ecotypes by dust rains in lime pits.
- (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.
- (17) Günther B. Hartl and Martin Grillitsch. Wien. Genetic variability and molecular evolution in large mammals.
- (18) Claudine Montlegard. Montpellier. Albumin comparison of several species of rodents by ELISA.
- (19) C.A. Redi, S. Garagna, J. Forejt. Pavia, Prague. Satellite DNA and Robertsonian chromosome formation.

Group 5: Reproduction and Behavior

- (20) Hans Ek and Katarina Hedlund. Lund. A labelling method for studying mate choice in Collembola.
- (21) Ann Erlandsson. Lund. Prey sharing in the water cricket *Velia caprai* (Tham.)
- (22) U. Grage, R. Schmuck. Würzburg. Energy allocation in reproduction in the reed frog, *Hyperolius viridiflavus*.
- (23) Paul Schmid-Hempel and Thomas Wolf. Basel. Foraging effort and life span in honeybee workers.
- (24) Michel Vancassel. Rennes. Can variations in female earwig parental behavior be considered as adaptations?
- (25) Ph. Welbergen, F. van Dijken, W. Kohler, and W. Scharloo. Giessen. The relationship between sexual behavior and sexual isolation between *Drosophila melanogaster* and *Drosophila simulans*.

Posters

- (26) **Monika Wawra, Seewiesen.** Vigilance in *Homo sapiens*.

Group 6: Selection, Kin and Otherwise

- (27) **Janis Dickinson, Cornell.** Directional selection in natural populations of the milkweed leaf beetle (*Labidomera clivicollis*, Coleoptera: Chrysomelidae) in Texas and New York.
- (28) **Saverio Forestiero, L. Bullini and V. Sbordoni, Roma.** Individual vs. kin selection: survival data from aposematic moths in predation experiments.
- (29) **Walter Koenig, Steven Albano.** A field guide to measuring episodic selection.
- (30) **A. Köhler, J. Krause, and W. Köhler, Giessen and Berlin.** Genetic architecture of a population after long-term selection.
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Group 7: Speciation and Isolation

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- (34) **Marina Cobolli-Sbordoni, M. Mattoccia, G. La Rosa, E. De Matthaeis, and V. Sbordoni, Roma.** Secondary sympatric occurrence of sibling species of subterranean shrimp in the Karst.
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- (53) C. Ricci. Milano. *Macrotrachela quadricornifera* (Rotifera, Bdelloidea): a comparison among thelytokous populations.
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Group 12: De Omnibus Rebus

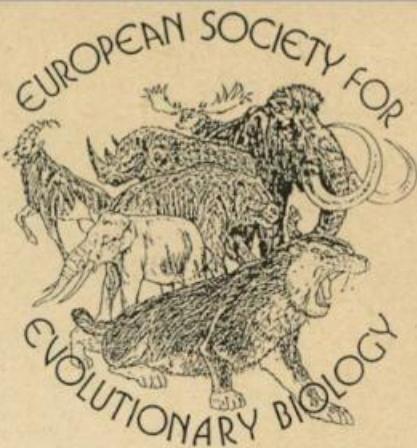
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