

Ecology and Evolution of Plant Reproduction

Umeå 25-29 September 1996

All lectures in Umeå (except the evening lecture on Sep 25) are given in lecture hall E at Humanisthuset

Wednesday 25 September

- 9.00 - 12.00 Registration and mounting of posters
- 12.00 - 12.15 Opening of the symposium. Jon Ågren.
Chairperson: Anders Nilsson
- 12.15 - 13.15 Scott Armbruster, Norwegian University of Science and Technology, Trondheim, Norway
How do plant-pollinator relationships evolve? — An historical perspective from euphorb vines
- 13.30 - 14.30 Spencer Barrett, University of Toronto, Canada
Ecology and evolution of plant mating
- 14.30 - 15.00 Coffee
Chairperson: Honor Prentice
- 15.00 - 16.00 Douglas Schemske, University of Washington, Seattle, USA
Evolution of floral characters in two Monkeyflowers (*Mimulus*) with different pollinators
- 16.30 - 17.30 Johanna Schmitt, Brown University, Providence, USA
The evolutionary ecology of flowering time
- 17.30 - 18.30 Dinner
Evening lecture at "Skogis kårhus." Chairperson: Thomas Elmqvist
- 19.00 - 20.00 Paul Cox, Brigham Young University, Provo, USA
The evolution of wind pollination in angiosperms
- 20.00- Get together

Thursday 26 September

Chairperson: Marianne Philipp

9.00 - 10.00 James Thomson, SUNY, Stony Brook, USA

Pollinator traffic jams: special problems of high visitation rates

10.00 - 10.30 Coffee

10.30 - 11.30 Knut Faegri, University of Bergen, Norway

Pollen morphology and pollination mode

11.30 - 13.00 Lunch

13.00 - 14.30 Poster session

Chairperson: Jon Ågren

14.30 - 15.30 Spencer Barrett, University of Toronto, Canada

Comparative biology of pollination and mating

15.30 - 16.00 Coffee

16.00 - 17.00 Scott Armbruster, Norwegian University of Science and Technology,
Trondheim, Norway

Morphological integration of blossoms: genetic constraints vs. selection in
two genera

19.00 - Symposium banquet at "Skogis kårhus"

Friday 27 September

Chairperson: Inger Nordal

9.00 - 10.00 Paul Cox, Brigham Young University, Provo, USA

Hydrophilous pollination in aquatic plants

10.00 - 10.30 Coffee

10.30 - 11.30 Douglas Schemske, University of Washington, Seattle, USA

Evolutionary dynamics of a flower color polymorphism in the desert annual *Linanthus parryae*

11.30 - 12.30 Lunch

Chairperson: Ulf Molau

12.30 - 13.30 Johanna Schmitt, Brown University, Providence, USA

Are environmental maternal effects adaptive plasticity?

14.00 - 15.00 James Thomson, SUNY, Stony Brook, USA

Evaluating agricultural pollinators in the context of pollen-depletion models

15.00 - 15.30 Coffee

16.30 - 19.00 Transport by bus to Norrfällsviken, Höga Kusten. The buses leave from Humanisthuset.

19.30 - Dinner at Norrfällsviken

Saturday 28 September

- 8.00 - 8.45 Breakfast
Chairperson: Stefan Andersson
- 9.00 - 9.20 Mariëlle Rademaker, Institute of Evolutionary and Ecological Sciences, Leiden, The Netherlands
Pollen dynamics of bumble-bee visitation on *Echium vulgare*
- 9.20 - 9.40 Ann Smithson, University of Exeter, UK
Pollinator behaviour, frequency-dependence and floral evolution
- 9.40 - 10.00 John Thompson, Centre d'Ecologie Fonctionnelle et Evolutive, CNRS, Montpellier, France
Stigma height variation in *Jasminum fruticans*: the conflicting pressures of pollen capture and pollen competition
- 10.00 - 10.20 Christopher Eckert, Queen's University, Kingston, Canada
The how's and why's of self-fertilization in *Decodon verticillatus* (Lythraceae)
- 10.20 - 10.50 Coffee
Chairperson: Björn Widén
- 10.50 - 11.10 Tom de Jong, Institute of Evolutionary and Ecological Sciences, Leiden, The Netherlands
Size-dependent sex allocation in hermaphroditic, monocarpic plants
- 11.10 - 11.30 Sandrine Maurice, Université Montpellier II, France
Pollen limitation and sex polymorphism in a giant columnar cactus
- 11.30 - 11.50 Cecilia Alström-Rapaport, Swedish University of Agricultural Sciences, Uppsala, Sweden
The evolution of dioecy in a single hormone model
- 12.00 - 13.00 Lunch
- 13.00 - 14.00 Walk to nearby fishing village. Sightseeing and local treats will be offered.
Chairperson: Manja Kwak
- 14.20 - 14.40 Laurence Després, Université J. Fourier, Grenoble, France
Characteristics of the interaction between *Trollius europaeus* and its seed-parasite pollinators along an altitudinal gradient in the Alps
- 14.40 - 15.00 Thomas Marcussen, University of Oslo, Blindern, Norway
Viola L., subsection *Viola*, in SE Norway: reproduction, hybridization and population differentiation
- 15.00 - 15.20 Jorun Nylehn, Botanical Garden and Museum, Oslo, Norway
Effects of temperature and disturbance on growth and reproduction in the alpine annual hemiparasite *Euphrasia frigida* Pugsley

- 15.20 - 15.50 Coffee
Chairperson: Barbara Giles
- 15.50 - 16.10 Mikael Stenström, University of Gothenburg, Sweden
Plants and pollinators in a subarctic-alpine environment: gene flow and reproductive success
- 16.10 - 16.30 Inger Weidema, University of Copenhagen, Denmark
Genetic subdivision: effects of localized reproduction
- 16.30 - 16.50 Mikkel Schierup, University of Aarhus, Denmark
Allelic dynamics in sporophytic self-incompatibility systems
- 16.50 - 17.10 Joyce Schoondergang, University of Groningen, The Netherlands
Fitness consequences of prolonged inbreeding in *Scabiosa columbaria*
- 17.30 - 18.30 Dinner
Chairperson: Ola Jennersten
- 19.00 - 19.20 Gerard Oostermeijer, University of Amsterdam, The Netherlands
The importance of reproductive biology for the survival of small populations
- 19.20 - 19.40 Pirkko Siikamäki, University of Jyväskylä, Finland
Reproductive success of the sticky catchfly (*Lychnis viscaria*) in relation to population size and isolation
- 19.40 - 20.00 Sheila Luijten, University of Amsterdam, The Netherlands
Conservation biology of *Arnica montana* in the Netherlands
- 20.00 - 20.30 Summarizing discussion
- 20.30 - Get together

Sunday 29 September

- 8.00 - 8.45 Breakfast
Chairperson: Tom de Jong
- 9.00 - 9.20 Jacqui Shykoff, Université de Paris-Sud, Orsay, France
Where sexual selection meets natural selection in the evolution of floral traits
- 9.20 - 9.40 Chantal Melser, Institute of Evolutionary and Ecological Sciences, Leiden, The Netherlands
Can plants abort seeds selectively?
- 9.40 - 10.00 Irène Till-Bottraud, Université J. Fourier, Grenoble, France
Pollen aperture heteromorphism: impact of pollination reliability on morph proportions
- 10.00 - 10.20 Åsa Lankinen, Lund University, Sweden
Pollen competition in *Viola tricolor*
- 10.20 - 10.50 Coffee
Chairperson: Mats Pettersson
- 10.50 - 11.10 Louise Pedersen, Botanisk Laboratorium, Copenhagen, Denmark
Honeyeater (Meliphagidae) pollination of Polynesian Heliconias (Heliconiaceae)
- 11.10 - 11.30 Jeff Ollerton, Nene College, Northampton, UK
Fly pollination in the Asclepiadaceae: old data and new techniques
- 11.30 - 11.50 Susanna Andersson, University of Gothenburg, Sweden
Is the floral scent important to *Colias nastes* in its search for nectar in *Silene acaulis*?
- 11.50 -12.10 Concluding remarks
- 12.15 - 13.15 Lunch
- 14.00 - 16.30 Transport by bus to Umeå

Ecology and Evolution of Plant Reproduction

September 25-29, 1996
Umeå, Sweden

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