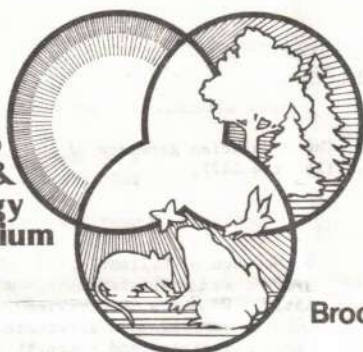


**Ontario
Ecology &
Ethology
Colloquium**



program

Brock University april 28,29,30-1980

Tuesday, April 29

9:00 Introduction (Thistle 247)

Session A
(Thistle 244)

R. Harmsen - Chairman

9:30 Smol, J.P. (Queen's). The post-glacial development of a small meromictic lake in Southern Ontario.

9:50 Taggart, C.T. (York). Physical-chemical and biological response to hypolimnetic aeration in an eutrophic kettle lake.

10:10 Good, A.G. (Windsor). The role of Heterocope septentrionalis (Crustacea, Copepoda) in structuring tundra zooplankton communities.

10:30 Harsen, R. (Queen's). Is species abundance lognormal or negative binomial?

J. Smol - Chairman

10:50 Scale, P.R. (Toronto). Quantitative methods in the study of SO₂ effects on plant communities.

11:10 Keddy, P.A. (Guelph). Effects of exposure on community structure of lakeshore vegetation.

11:30 Nudds, T.D. (Western). Equilibrium vs. nonequilibrium community organization; Ducks sit on the fence.

11:50 Ruse, M. (Guelph). Why are prostitutes female?

12:10 Lunch

Session B
(Thistle 246)

P. Colgan - Chairman

9:30 Hezcko, E. (Western). The effect of alarm substance on the behaviour of common shiners (Notropis cornutus, Cyprinidae).

9:50 Godin, J.J. (Western). Circadian rhythm of swimming activity in juvenile pink salmon (Oncorhynchus gorbuscha).

10:10 Kott, E. and G. Humphreys. (Wilfrid Laurier, Guelph). Notes on the reproductive biology of the black redbhorse sucker.

10:30 Colgan, P. (Queen's). Patterning of laboratory food patch exploitation in an algae-eating fish.

D. Kramer - Chairman

10:50 Spry, C. and D.L. Kramer (McGill). Reproductive biology of a "small brood spawning" tropical fish.

11:10 McNicol, R.E. and D.L.G. Noakes. Territoriality in juvenile brook charr.

11:30 Grant, J. and P. Colgan (Queen's). Sexual selection in the johnny darter (Etheostoma nigrum).

11:50 Brown, J.A. (Queen's). Preliminary report on comparative aspects of social organization in young centrarchid fish.

Tuesday, April 29

14:00 Professor R.K. Selander (Rochester). The population genetics of uniparental reproduction in animals. (Thistle 247).

A

W. Cade - Chairman

15:30 Hartmann, P.H. (Brook) Camel cricket aggregations with special reference to pheromones.

15:50 Cade, W. (Brook) Alternative male competitive behaviours in field crickets.

16:10 Wyatt, D.R. (Brook) Density-dependent behavioural effects in field crickets.

16:30 Gulk, B. (York) Time lapse television monitoring active respiration rates for the burrowing wolf spider.

F. Cooke - Chairman

16:50 Maltby, L.S. (Carleton) The role of song in neighbor recognition by American Robins.

17:10 Ross, H.A. and I.A. McLaren (Royal Ontario Museum). Equiprobable survival of Ipswich Sparrow nestlings.

17:30 Boag, P.T. (Trent). The natural selection of Darwin's Finches in a variable environment.

19:30 Annual Banquet - Beacon Motor Inn

B

D. McQueen - Chairman

15:30 Woodrich, D.C. (Windsor) Clonal variation in intrinsic rates of increase and competitive ability in Daphnia.

15:50 Stirling, G. Life history of a polycyclic Daphnia.

16:10 Ylanko, V.H. (Toronto) Selective recruitment and density-triggered dispersal in urban Grey squirrels

16:30 Keenan, R.J. (York) Home range use and spatial relationships of red foxes in southern Ontario.

J.B. Falls - Chairman

16:50 Falls, E.A. and J.B. Falls (Toronto) Peromyscus cycles in Algonquin Park.

17:10 Gates, M.A. and J.B. Falls (Toronto) Variation among habitats in the fluctuation of Peromyscus populations in Algonquin Park.

17:30 Lomolino, M.V. Island biogeography of mammals along the St. Lawrence River.

Wednesday, April 30

9:00 Business Meeting (Thistle 247)

Session A
(Thistle 244)

R. D. Morris - Chairman

9:30 Feterolf, P.M. (Toronto) Agonistic interaction, neighbor-neighbor nesting synchrony, and social energy expenditure in ring-billed gulls, Larus delawarensis.

9:50 Graham, K.D. and J.N. Chudzik (Brook) Comparative chick feeding ecology and demography of Herring Gulls and Ring-Billed Gulls.

10:10 Kovacs, K. Territory size and nesting success of female-female pairs of Ring-Billed Gulls on Granite Island.

10:30 Morris, R.D. (Brook). Parental care patterns in Herring Gulls.

R. J. Robertson - Chairman

10:50 Quinn, J.S. (Brook). Parental investment and chick feeding patterns in Caspian Terns (Sterna caspia).

11:10 Wertz, E.C. (Syracuse). Common Tern colonies as information-centers.

11:30 Robertson, R.J. (Queen's). Cooperative breeding in the Bell Miner (Manorina melanophrys), an Australian honeyeater.

12:00 Lunch

14:00 Professor L. E. Gilbert (Texas). Behaviour, coevolution and the organization of communities. (Thistle 247).

A

E. H. Miller - Chairman

15:30 Cavalcanti, R.B. (McGill) Egg recognition and combid parasitism in song sparrows.

15:50 Montgomerie, R.D. (McGill). Optimal territory size: Evidence from hummingbirds.

Session B
(Thistle 246)

G. R. Carmody - Chairman

9:30 Balkwill, E.D. and G.R. Carmody (Carleton) A search for hidden genetic variation at five loci in Drosophila melanogaster.

9:50 Crease, T.J. (Windsor) Genetic variation in natural populations of Daphnia magna.

10:10 Hebert, P.D.N., T.J. Crease and J.M. Loaring (Windsor). Genetic diversity in Cladoceran populations reproducing by obligate parthenogenesis.

10:30 Bogart, J.P. (Guelph) Karyotypic variability in Amphibians: the ethological connection.

D. A. Hickey - Chairman

10:50 Paterson, R.C. (Brook). A study of amylase variations in Drosophila melanogaster.

11:10 Haj-Ahman, Y. (Brook). Apparent trans control at the amylase locus in the heterozygote of Drosophila melanogaster.

11:30 Hickey, D.A. and M.D. McLean (Brook). Ethanol tolerance and Adh allozymes in natural populations of Drosophila melanogaster.

B

B. Fenton - Chairman

15:30 Bachmann, P. and J. Broadfoot (Ministry of Natural Resources) Implications of denning habits of skunks in the transmission potential of rabies.

15:50 Barclay, R.M.R. (Carleton). Night roosting by Little Brown Bats: Some data and predictions.

- 16:10 Gibbs, H.L. (Queen's). Determinants of the spacing behavior of nesting Tree Swallows (Iridoprocne bicolor).
- 16:10 Thomson, C. (Carleton). Mother-infant communication in the Little Brown Bat, Myotis lucifugus.
- 16:30 Miller, E.H. (York). The concept of character displacement as applied to bird song.
- 16:30 Fullard, J.H. and R.M.R. Barclay (Erindale, Carleton). The defensive repertoire of arctiid moths and the predation potential of bats.
- 16:50 Middleton, J. (Carleton). Truth is like an ecosystem.

Wednesday, April 30

Session C - Tropical Ecology
(Thistle 245)

M. D. Dickman - Chairman

- 9:30 Risk, M. (McMaster) Coral Reef Ecology and the role of bioeroders.
- 9:50 Collado, C. (Waterloo) Fungi as coral bioeroders.
- 10:10 Cortes, J. (McMaster) Impact of silt on Costa Rican coral reefs.
- 10:30 Kramer, D. (McGill) Behavioral ecology and the paradox of fish respiration.
- 10:50 Dickman, M.D. (Brock) Impact of Tilapia grazing on phytoplankton and zooplankton communities in Costa Rican aquaculture ponds.
- 11:10 Fernando, A. (Waterloo) Tropical zooplankton distribution patterns.
- 11:30 Tropical Slide Presentation

F. Berkes - Chairman

- 15:30 Weis, I.M. (Windsor) Effects of propagule size on seedling vigor in a prairie fugitive species.
- 15:50 Price, S.D. and S.C.H. Barrett (Toronto) Function and adaptive significance of tristyl in Pontederia cordata L. (Pontederiaceae).
- 16:10 Corbett, B. (Trent) Spawning and drift of walleye (Stizostedion vitreum) and sucker (Catostomus commersoni) in Apsley Creek, Ontario.
- 16:30 Berkes, F. (Brock) Impact of James Bay Hydro project on fish populations: Preliminary observations.

17:00 Professor D. Chitty (British Columbia) Conference Synthesis - Where we are going and where we have been. (Thistle 247).

19:30 Final Reception and Dance, Pond Inlet, Brock University.