

QUEEN'S UNIVERSITY

Ontario Ecology and Ethology Colloquium April 17 - 18, 1978

Dear Colleague:

Please find enclosed the program of the OEEC, a map of Queen's campus, and the program of the Technical Workshop on Sound Production and Analysis. The Workshop will be in Earl Hall beginning at 2:00 PM Sunday. Anyone interested in sound production or analysis is welcome to attend. The OEEC paper sessions will be in Stirling Hall on Monday and Tuesday. Papers have been allotted 20 minutes each, allowing for a 15 minute presentation and 5 minute question period. Speakers will be held on schedule to allow switching between the two concurrent sections.

A registration desk will be in Earl Hall for Sunday arrivals, and in Stirling Hall for Monday arrivals. Information regarding the banquet, reception, student billeting arrangements, late registrion, and abstracts of all papers will be available at the registration desk. Parking is available at \$2.50 per day in the underground lot on Stuart St. or at \$1.00 per day in the lot behind Dupuis Hall. For the latter, permits must be obtained at the OEEC registration desk.

We are looking forward to a profitable and enjoyable Colloquium.

Yours truly,

Patrick Colgan Associate Professor

Raleigh J. Robertson Associate Professor

OEEC

Technical Workshop on Sound Recording and Analysis

14:00-17:00 Sunday, 16 April 1978
Earl Hall

Falls, J.B. and V. Thiel. A frequency to voltage converter with rapid unit continuous paper tape output.

Falls, J.B. A zero crossing analyzer with output to a storage scope.

Shiovitz, K., and R. Lemon. Fast Fourier transform analysis.

Fenton, M.B. Ultrasonic sound.

BREAK

Miller, E.G. Approaches to description and quantification of calls of least sandpipers.

Cade, W.H. An artificial lek.

Berrill, M. Sounds from spiny lobsters.

Everyone interested in animal sounds is invited to attend and contribute. Most of the workshop will be devoted to technical problems of the analysis of sound. Data will be discussed as time permits.

O E E C PROGRAM

17-18 April 1978

Queen's University

Kingston, Ontario

Monday, April 17

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Stirling Hall Room D

9:00		9:00	Welcome
9:20	GROSS, H.P. Sexual selection in a territorial fish (Gasterosteus aculeatus): behavioural determinants of male reproductuve success.	9:20	HEBERT, P.D. The insect-host plant relationship: a num-erical study.
9:40	EMERY, A.R. Some simple observations and conclusions about the behavioural meaning of sounds produced by fishes.	9:40	M'CLOSKEY, R.T. Diversity and Assembly of Desert Rodent Communities.
10:00	NOWELL, W.A. Neighbour Recognition and Rim Circling in the Bluegill Sunfish (Lepomis gibbosus).	10:00	COOLEY, W.M. Morphological variations as an insight into faunal structure.
10:20	BIETZ, B.F. Nest site selection by the longear sunfish (Lepomis megalotis peltastes) in relation to habitat availability.	10:20	FENTON, M.B. Partitioning of food resources by sympatric insectivorous bats: optimal foraging or competitive exclusion?
10:40	BREAK	10:40	BREAK
11:00	DODSON, J.J. Behavioral toxi- cology in fish: The modification of rheotropism by subtoxic doses of aquatic herbicides.	11:00	SUFFLING, R. A demographic approach to ecosystem management.
11:20	EMANUEL, M.F. The Modification of the Rheotropic response of Rainbow trout, Salmo gairdneri, by ovarian fluid and conspecific odor.	11:20	DONNELLY, R.E. Forest Fire History Map of Ontario.
11:40	MACLEAN, N.G. Ultrasonic telemetry studies in the vicinity of Nanticoke Generating Station, Lake Erie.	11:40	GIZYN, W.I. Influence of an arctic bituminous shale fire on air and soil chemistry.
12:00	OBBARD, M.E. Nesting migrations in the common snapping turtle, Chelydra serpentina.	12:00	AARSSEN, L.W. Stability and flux of Neighbour Relation-ships in Grass-Legume Communities.
12:20	LUNCH	12:20	LUNCH

Monday, April 17

	Stirling Hall Room C		Stirling Hall Room D
14:00	MCQUEEN, D.J. Interactions between the burrowing wolf spider <u>Geolycosa domifex</u> and a predacecus Pompilid wasp.	14:00	TAYLOR, G. Factors affecting the distribution of Maianthemum canadense Desf. in the St. Lawrence Islands.
14:20	VOIGHT, D.R. Movements of Foxes, skunks, coyote and raccoon in southern Ontario.	14:20	PRUDHOMME, T.I. A Comparison of the Seasonal Patterns of Relative Carbon Allocation to Secondary Compounds in the Leaves of Two Subarctic Shrub Spp.
14:40	STEELE, R.W. Behavioural responses of <u>Microtus pennsylvanicus</u> to changes in habitat structure.	14:40	WEIS, I.M. Competition in- volving multiple resour e di- mensions: field data and its implications for the study of guilds.
15:00	HARLAND, R.M. Changes in activity patterns in <u>Peromyscus</u> leucopus in response to the demands of lactation and meteorlogical conditions.	15:00	KELIMAN, M. Nutrient accumulation by savanna trees as a mechanism for rainforest invasions of savannas.
15:20	BREAK	15:20	BREAK
15:40	THOMAS, D.W. Dry season for- aging behaviour of two African fruit bat species.	15:40	FREEDMAN, W. Studies of Sympatric Snake Species at a Site near Amherstburg, Ontario.
16:00	BARCLAY, R.M. Two Aspects of Vocal Communication in the Little Brown Bat, Myotis lucifugus.	16:00	BOUSFIELD, M.A. The effects of age and experience on the clutch size of the lesser snow goose (Anser caerulescens caerulescens).
16:20	FULLARD, J.H. Moth Ears and Bat Cries: Some Relationships	16:20	SMITH, J.A. Measurements of fitness differences between the blue and the white morphs of the lesser snow goose, Anser caerulescens caerulescens.
16:40	SILVERMAN, H.B. The narwhal tusk: The point of the matter.	16:40	GIBBS, H.L. A dispersion patter amongst nesting tree swallows (Iridoprocne bicolor).
17:00		17:00	Business Meeting
	18:00 RECEP	TION S	KYLIGHT DINING ROOM -

20:00 BANQUET

Tuesday, April 18

4	Stirling Hall Room C		Stirling Hall Room D
9:00	KERR, G.E. Preliminary report on parental investment and mating system of two meadow-katydids.	9:00	JOHANSEN, P.H. The temperature selection behaviour of the mummichog (Fundulus heteroclitus) under various temperature/salinity regimens.
9:20	SOKOLOWSKI, M. Feeding-loco- motive behaviour in <u>Drosophila</u> melanogaster larvae: Are forag- ing strategies important in larval competition?	9:20	KRAMER, D.L. Ecological and ethological implications of surface skimming as a respiratory strategy in the common guppy.
9:40	AUBE, C.A. Feeding range, feeding strategy and energy maximization of the feral pigeon, Columba livia during the winter.	9:40	GIBSON, A.R. The evolutionary significance of melanism in the common garter snake. Thamnophis sirtalis (L.).
10:00	KRAMER, H.G. Dialect vocalizations of the Northern Blue Jay, Cyanocitta cristata bromia.	10:00	ANKNEY, C.D. Is wing molt a nutritional stress for Lesser Snow Geese?
.10:20	SHIOVITZ, K.A. Subtle Sound Patterns Involved in Display Release by Territorial Buntings, Passerina.	10:20	WYPKEMA, R.C. Significance of protein and fat changes of migrating Lesser Snow Geese at James Bay, Ontario.
10:40	BREAK	10:40	BREAK
11:00	LASENBY, D.C. Predation and feeding of Mysis relicta.	11:00	GIBO, D.L. The role of soaring flight in the fall migration of the Monarch butterfly, Danaus plexippus.
11:20	BAKER, J.A. Numerical and aggregative responses of raptors to abundance of the meadow vole, Microtus pennsylvanicus.	11:20	SANDEMAN, I.M. Respiration rates and vertical migration in Mysis relicta.
11:40	CROSSMAN, E.J. Predator-prey relationship of the muskellunge in Nogies Creek, Ontario.	11:40	HALL, T.M. Nickel accumulation in Daphnia magna, or where in the Daphnia is it.
12:00	BERRILL, M. Competition and co- evolution: predatory strategies of bass and antipredatory strat- egies of crayfish.	12:00	WALLEN, D.G. Nutrient limiting factors in ice covered Lake St. Clair.
12:20	LUNCH	12:20	LUNCH

Tuesday, April 18

Stirling Hall Room C

Stirling Hall Room D

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14:00	INNES, D.G. The reproductive tactics of two sympatric microtine species.	14:90	SCHOENERT, R.A. Population dynamics and production esti- mates of cladoceran zooplankton along a nutrient gradient in Lake Memphremagog, Quebec.
14:20	BURLEY, N. Clutch overlap: An Alternative Reproductive Tactic.	14:20	BOYD, S. The wax and wane of planktonic diatom communities.
14:40	CAVALCANTI, R.B. Adaptive aspects of nest desertion in birds.	14:40	SMOL, J.P. Fossil diatoms and chrysophytes of Found Lake.
15:00	LEGGETT, W.C. Latitudinal variation in reproductive characteristics of shad: Evidence in support of prevailing life-history strategy theory.	15:00	DICKMAN, M.D. Some consequence of a mass mortality of photosynthetic bacteria in the Black Sea.
15:20	BREAK	15:20	BREAK
15:40	TAYLOR, K. Population dy- namics of undisturbed pure stands of Portulaca oleracea L. (common purslane).	15:40	GLADISH, D.W. The primary productivity and phytoplankton composition of four Arctic ponds, August 1977.
16:00	TAYLOR D.G. Comparative population biology of Peromyscus in an isolated and a non-isolated woodlot.	16:00	GRIFFITHS, R.W. Benthic communities as indicators of water quality in the St. Clair River.
16:20	RIDDELL, B.E. Geographic variation in Juvenile Atlantic Salmon (Salmo salar L.): Growth and Body Morphology.	16:20	HOLTBY, B. The size structure of zooplankton communities as a predictor of limnological conditions.
16:40	MCNICOL, D.K. Temporal and habitat patterns of food utilization in Redwinged Blackbirds (Agelaius phoeniceus).	16:40	SPRULES, W.G. A contribution to the life history of Daphnia cf. cavicervix Ekman, a woodland pond cladoceran newly reported from North America.