

SEMINARS - ANCON CONFERENCE ROOM

Tuesday, June 7, noon seminar speaker will be JAE CHOE, Harvard University.

Mating Systems and Social Evolutions in Zoraptera.

Abstract: The Zoraptera is among the smallest and least explored orders of insects. Based on four years of research in Panama, Costa Rica and the United States, an account of the morphology, systematics, and biology of this order will be given. Emphasis is on the two species that coexist on BCI and differ markedly in their mating behavior, and the dynamics of sexual selection in the two species will be discussed.

NEXT WEEK

Tuesday, June 14, noon seminar speaker will be George Angehr, STRI.

Conservation of Endangered New Zealand Birds: Applied Island Biogeography.

ARRIVALS & DEPARTURES

June 3 - Departing, NEAL SMITH, for Cuba to give a paper at the Simposio de Ecologia Integrada, and to conduct research on endemic food plants of the moth Urania. He will be back on June 17.

June 5 - Departing, ALAN SMITH, for Miami to attend the OTS Symposium, then to Washington, DC on official business. Returns on June 16.

June 5 - Departing, JOSEPH WRIGHT, for the OTS Symposium in Miami, then on home leave with his family. They return on June 30.

June 10 - Arriving, KATHERINE LEYDORF, to work with Katharine Milton on the population dynamics of howler monkeys and spider monkeys. She will be on BCI until November 30.

June 10 - Departing, JAMES KARR, to San Jose, Costa Rica, to attend meetings of the OTS board of directors.

REMINDERS

Official STRI envelopes should not be used for inter-office mail.

The STRI Library will close at 4 p.m. this Friday, for fumigation, but will open on Saturday as usual.

1987 PUBLICATIONS BY STRI STAFF, FELLOWS & RESEARCH ASSOCIATES

Eakin, M.C. 1987. Damsel fishes and their algal lawns: a case of plural mutualism. *Symbiosis* 4: 275-288.

Tanaka, S., H. Wolda, and D.L. Denlinger. 1987. Seasonality and its physiological regulation in three neotropical insect taxa from Barro Colorado Island, Panama. *Insect Sci. Applic.* 8(4,5,6): 507-514.

NEWS FROM NAOS

From May 30 through June 13, ARCADIO RODANICHE will be Acting Marine Science Coordinator.

ALL STAFF, ASSOCIATES, FELLOWS, AND VISITORS

It is time to prepare reports of STRI-sponsored research projects for the Panamanian Ministry of Health. Completed Research Project Forms should be sent to Audrey Smith, Director's Office, by JUNE 17. Forms must be typewritten, and should include the name and institutions of assistants.

CONSERVATION WEEKEND

SATURDAY, JUNE 4 - The celebration of International Environment Day (one day early). Exhibitions will be open to the public from 8 am - 6 pm at the ATLAPA Convention Center, and a dance after 9 pm.

SUNDAY, JUNE 5 - The inauguration of the Metropolitan Nature Park. The park offers a variety of natural attractions including an interpretative nature trail. Park entrance is located on Avenida Juan Pablo II near the Curundu stables.

REQUEST FOR ILLUSTRATIONS

Slides of the following insects alive in their natural habitats are being requested for the book Insects of Panama and Mesoamerica:

MECOPTERA: Bittacidae
PLECOPTERA: "stone fly"
PSOCOPTERA: Psocidae: Thyrsopterinae
DIPTERA: Pipunculidae
TRICHOPTERA: "caddisflies"
ODONATA: Gomphidae "clubtails"
ISOPTERA: Apicotermiteinae
DERMAPTERA: "earwigs"
FORMICIDAE: Attini: Cyphomyrmex
Original slides will be returned and full acknowledgement given. Please contact Annette Aiello (62-3038) or Diomedes Quintero (62-2009/2008).

LIBRARY NEWS

New Books:

- METETI: FORMACION DE UNA COMUNIDAD DE COLONOS CAMPESINOS EN DARIEN (Marta Cecilia Sarmiento Chia, 1984) F1569.D3S24 STRI
- NATURAL HISTORY OF ENEWETAK ATOLL (Dennis M. Devaney et al editors, 1987) QH198.E53N38 STRI
- NOCTURNAL MAMMALS: TECHNIQUES FOR STUDY (Robert P. Brooks, editor, 1985) QL755.5.N75 STRI
- PESTICIDE USE AND TOXICOLOGY IN RELATION TO WILDLIFE: ORGANOPHOSPHOROUS AND CARBAMATE COMPOUNDS (Gregory J. Smith, 1987) QH545.P4S64 STRI
- PLANT FAMILIES, HOW TO KNOW THEM; PICTURED-KEYS FOR DETERMINING THE FAMILIES OF NEARLY ALL OF THE MEMBERS OF THE ENTIRE PLANT KINGDOM. 2ND EDITION (H.E. Jaques, 1949) QK94.J3 STRI
- PRINCIPLES OF INSECT MORPHOLOGY (R.E. Snodgrass, 1935) QL494.S65 STRI
- PROSPECTS IN CELL BIOLOGY; A VOLUME OF REVIEWS TO MARK 20 YEARS OF JOURNAL OF CELL SCIENCE (Journal of cell science, 1986) QH581.5.P96 STRI
- REARING TECHNIQUE FOR PEDIQBIUS FOVEOLATUS (CRAWFORD) (HYMENOPTERA; EULOPHIDAE): A PARASITE OF THE MEXICAN BEAN BEETLE (L. Nong and Reece I. Sailer, 1985) SR945.M59N812 STRI
- RICHARDS BAY EFFLUENT PIPELINE (D.A. Lord, 1986) qTD763.L86 STRI
- SOUTH AFRICAN RED DATA BOOK: PLANTS---FYNBOS AND KAROO BIOMES (A.V. Hall, 1985) qQK966.S6H17 STRI
- SOUTH AFRICAN SOUTHERN OCEAN RESEARCH PROGRAMME. (Foundation for research development, 1987) qGC59.B4.S72 STRI
- STRATEGIC ROLE OF PERIGEAN SPRING TIDES IN NAUTICAL HISTORY AND NORTH AMERICAN COASTAL FLOODING, 1635-1976 (Fergus J. Wood, 1978) GC356.A1W66 STRI
- TETRODOTOXIN, SAXITOXIN, AND THE MOLECULAR BIOLOGY OF THE SODIUM CHANNEL (C.Y. Kao, and S.R. Levinson, editors, 1986) QP632.T46T34 STRI
- VEGETACION Y CLIMA DE COSTA RICA (Luis D. Gomez, 1986) QK217.V42 STRI
- BONES OF CONTENTION: CONTROVERSIES IN THE SEARCH FOR HUMAN ORIGINS (Roger Lewin, 1987) GN281.L487 STRI
- BIOLOGY OF CELL REPRODUCTION (Renato Baserga, 1985) QH605.B327 STRI
- BRIAN HANDBOOK: AN INTRODUCTION TO LANDSAT AND THE BRIAN (Barrier Reef Image Analysis) system for users (D.L.B. Jupp... et al., 1985) qG70.4.B108 STRI
- CATALOGO DAS OBRAS DO INSTITUTO DE INVESTIGACAO CIENTIFICA TROPICAL: FEIRA DO LIVRO DE LISBOA (Instituto de Investigacao Scientifica Tropical (Portugal), 1984) qZ5055.P8I59 STRI
- CULTURE AND THE EVOLUTIONARY PROCESS (Robert Boyd and Peter J. Richerson, 1985) GN360.B68 STRI
- ECOLOGICAL GENETICS AND SOME SPECIES PROBLEMS IN BRYOZOA (John Peter Thorpe, 1977) mfc 998
- ECOLOGY OF THE NITROGEN CYCLE (Janet I. Sprent, 1987.) QH344.S68 STRI
- EVOLUTION OF LONGEVITY IN ANIMALS: A COMPARATIVE APPROACH (Avril D. Woodhead and Keith H. Thompson, editors, 1987) Brookhaven Symposium in Biology (34th: 1986: Upton, N.Y. QP85.B73 STRI
- INSECT POISONS, ALLERGENS, AND OTHER INVERTEBRATE VENOMS (Anthony T. Tu, 1984) Handbook of natural toxins; v.2, QP632.I57I57 STRI REF
- LAND IN TROPICAL AMERICA=LA TIERRA EN AMERICA TROPICAL (T.T. Cochrane... et al., 1985) 3 v. 1. A guide to climate, landscapes, and soils for agronomists in Amazonia, the Andean Piedmont, central Brazil and Orinoco. v. 2. pt. 1. Legend to the Land Systems Map v.2, pt.2 Individual zones of the Land Systems Map v.3. Computer summary. S599.3.A1L25 STRI
- LATEST ON THE BEST: ESSAYS ON EVOLUTION AND OPTIMALITY (John Dupre, editor, 1987) QH371.L38 STRI
- MAMMAL POPULATION STUDIES: THE PROCEEDINGS OF A SYMPOSIUM HELD AT THE ZOOLOGICAL SOCIETY OF LONDON ON 28th AND 29th NOVEMBER 1986 (Stephen Harris, editor, 1987) QL708.6.M26 STRI