

SEMINARS - ANCON CONFERENCE ROOM

On Tuesday, May 31 the noon seminar speaker will be DAVID STERN, Cornell University.

The Mating System of Euglossine Bees.

Abstract: Euglossine bees are best known for the males' interactions with numerous orchids from which they collect fragrant compounds. The function of the fragrances is unknown but they are presumably utilized in the mating system. In a study of the mating system, males of two species of large Euglossine bees (*Eulaema meriana* and *E. bombiformis*) were seen participating in one of two alternative strategies: displaying or intruding. Females were rarely seen at territories.

That evening at 7:00 p.m., DON WINDSOR will give the scientific staff monthly seminar. All staff and visitors are welcome.

Tortoise Beetles: Life History Patterns within a Subfamily of Folivorous Insects.

NEXT WEEK

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

Mating Systems and Social Evolutions in Zoraptera.

ARRIVALS & DEPARTURES

June 1 - Arriving, CATHERINE CRAIG, Yale University, with assistants P. CUSHING and C. HAYASHI, to study the influence of insect visual capability on the evolution of spider foraging strategies. They will be on BCI until September 1.

June 1 - Arriving, JILLIAN GREGG, University of Utah, to work with Alan Smith. She will be on BCI until August 31.

CALENDAR

May 30 - *Memorial Day*
STRI Holiday.

June 5 - International Environment Day.

June 14 - STRI monthly scientific staff meeting.

1987 PUBLICATIONS BY STRI STAFF, FELLOWS & RESEARCH ASSOCIATES

Guzman, H.M., J. Cortes, R.H. Richmond and P.W. Glynn. 1987. Efectos del fenómeno de "El Niño Oscilación Sureña" 1982/83 en los arrecifes coralinos de la Isla del Caño, Costa Rica. *Rev. Biol. Trop.*, 35(2): 325-332.

Guzman, H.M., V.L. Obando and J. Cortes. 1987. Meiofauna associated with a Pacific coral reef in Costa Rica. *Coral Reefs* 6: 107-112.

MANAGING STRESS

A second showing of the movie "MANAGING STRESS" is scheduled for Wednesday, June 1, at noon in the Ancon Conference Room. All supervisors and personnel are invited to attend. The movie was very well-received at its first showing last week.

PERSONNEL NEWS

Beginning June 5, ROBIN POSTER, tropical forest ecologist from the Field Museum of Natural History and long-time visiting scientist at STRI, will join the STRI scientific staff on a part-time basis. He will be directing the Tropical Forest Dynamics Project, and conducting other research.

ELDRIDGE BERMINGHAM, presently at the University of Barcelona, has accepted a staff scientist position with the STRI Molecular Evolution Initiative. He will arrive in Panama in October 1989; his assistant, LAURA BEAL, will begin in July 1988.

JUNE 1988						
S	M	T	W	T	F	S
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5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

ON LEAVE

J. Wright, June 1988

A. Hernandez, May 20 - June 20

GAME WARDEN NEWS

ALVARO GONZALEZ will act as game warden supervisor during A. Hernandez's absence.

Changes within the game warden crew include: GABRIEL ABREGO as new group leader, ANDRES RAMOS has been designated naturalist and MARIO SANTAMARIA as guide.

LIBRARY NEWS

The STRI Library will close at 4 p.m. on Friday, JUNE 3, for fumigation, but will open on Saturday as usual.

The Library is requesting volunteers to assist in the organization of a collection of conventional and glass negatives of historic importance that has been collected since the early 1920's. This initial organization is necessary before restoration, preservation, and cataloging of the collection can begin. Knowledge of photography would be helpful but not essential. Interested persons should contact Sylvia Churgin at 62-3151.

POSITION AVAILABLE / POSICION ABIERTA

STRI está aceptando solicitudes para la posición de ASISTENTE ADMINISTRATIVO/A en el Laboratorio Marino de Naos. Es una posición federal, permanente y de tiempo completo. La persona coordinará las actividades de los científicos, estudiantes y visitantes, incluyendo charlas, procesamiento de permisos, uso de vehículos y botes. Actuará como secretaria/o del Coordinador de los Programas Marinos y de otros científicos, y como enlace entre Naos y las oficinas administrativas y el departamento de mantenimiento. Se requiere ser completamente bilingüe (español/inglés), y dominar el procesamiento de palabras.

INTERNATIONAL ENVIRONMENT DAY / DIA MUNDIAL DEL MEDIO AMBIENTE

In celebration of International Environment Day (one day early), a full day program is planned at the Atlapa Convention Center on Saturday, JUNE 4, organized by CONAMA and AECAP. Exhibitions will be open to the public from 8 am - 6 pm, and a dance after 9 pm.

En celebración del Día Mundial del Medio Ambiente se invita al público en general a un programa en ATLAPA el día sábado, 4 de junio, organizado por CONAMA y AECAP. Habrán exhibiciones de 8 am a 6 pm y un baile a las 9 pm.

PANAMA CONSERVATION NEWS

As part of the Nature Conservancy's (TNC) strategy of working with partner organizations, the newest Conservation Data Center (CDC), in Panama City, started work last year, sharing offices with the Conservancy's partner organization, ANCON. All the CDC staff, including coordinator Oscar Vallarino, a marine biologist, zoologist Belkys Jimenez, botanist Graciela Palacios, ecologist Jose Polanco, and data manager Jaime Guerra completed a training session at the TNC's central offices in April 1988.

So far the Panama CDC staff has assembled map files for the entire country, is beginning to contact knowledgeable scientists who can provide information to the data center, has contacted potential users of conservation data, has installed a Nature Conservancy-supplied system of databases, and is beginning to lay plans for upcoming field work.

ORBITUARY

RALPH SCHREIBER, internationally known ornithologist, died on March 29. Dr. Schreiber was best known for his study showing that the irregular sea temperatures created by EL Niño near Australia's Christmas Island had caused seabirds to abandon their nests in great numbers.

THE DIARY OF A BIOLOGIST'S VISIT TO BARRO COLORADO ISLAND

by John H. Welsh

(taken from The Berea Alumnus, September 1932)

June 11, 1930 -- Greeted at the laboratory dock by lizards walking on the water! Basilisk! Too dark to observe other outside activity, but a bat seemed to enjoy swooping over my head as I ate a lonely supper, served by Donato, the resident custodian of the island.

June 12 --Last night a strange sound aroused my curiosity and I listened intently until I was satisfied that it was Donato doing some heavy snoring, only to be informed this morning that it was undoubtedly howling monkeys.

The mattresses on the beds are not innerspring mattresses and they get soggy and well packed due to the moisture; I must do something to make them more comfortable.

June 13 --Just a moment ago as I was preparing for bed something struck the screen door and on investigation I found a large praying mantis beautifully disguised as a green leaf.

June 17 --Donato has learned that I will always eat papaya. This is a large melon-like fruit, growing on a tree, and rich in pepsin. A well-ripened, thoroughly chilled papaya is delicious beyond description. Oh, yes! We have ice. Each morning as the sun is just beginning to spread its glow over the lake, Sylvestre starts off in his cayuca for the long paddle to Frijoles for ice and supplies. Late in the morning these are dragged up the steep incline from the dock to the laboratory on a small rail car operated by a motor-driven winch and cable.

June 23 --This evening I tried night hiking, lighting my way with an acetylene head lamp. He who has not wandered along jungle trails in the dark of night can have no conception of the thrill which awaits him. Each soft rustle of leaves represents a crouching ocelot or puma and every slender hanging vine is a deadly snake. Tarantulas are surely waiting on every side to spring on the unwary and those ticklish things are biting ants crawling up sleeves and down open collars. Courage comes gradually, and after cutting one's way with machete through the tangle of vines over a brook bed, and after tramping a few miles of trail, one realizes that probably the danger is no greater at night than it is by day. Eventually one returns to the cheerful gleam of the kerosene light in the laboratory to find that he has acquired nothing worse than a couple of ticks which are enjoying a belated supper.

June 25 --Sat up late reading a wild tale of South American revolution and love, entitled "Zombi." It was not exactly the most comforting type of literature to be reading at the edge of a tropical jungle and several miles from one's nearest fellow-man.

July 3 --Tomorrow I leave for home. The stay here has been most worth while but a bit lonely. I should prefer company when I come again--someone to pick the ticks off those inaccessible places.

FOR SALE

Fiberglass boat, 16', 70hp and kicker, trailer, good condition. \$3,000. NISSAN Sunny SW 1985, A/C, AM/FM-cassette, 4-dr, good condition. \$3,500. If interested, contact Vielka Vergel, Ancon.

LIBRARY NEWS

New Books:

ALIEN AND TRANSLOCATED AQUATIC ANIMALS IN SOUTHERN AFRICA: A GENERAL INTRODUCTION, CHECKLIST AND BIBLIOGRAPHY (M.N. Bruton and S.V. Merron, 1985) qZ799.8A356B913 STRI

LA CUENCA DEL CANAL DE PANAMA: ACTAS DE LOS SEMINARIOS-TALLERES (Stanley Heckadon Moreno, 1986) S604.83.C96 STRI

DESIGN AND ANALYSIS METHODS FOR FISH SURVIVAL EXPERIMENTS BASED ON RELEASE-RECAPTURE (Kenneth P. Burnham, et al, 1987) SH173.B96 STRI

DISTURBANCE AND THE DYNAMICS OF FYNBOS BIOME COMMUNITIES (R.M. Cowling et al, editors, 1987) qQH541.5.A74D614 STRI

EMBALSSES, FOTOSINTESIS Y PRODUCTIVIDAD PRIMARIA: CURSO-TALLER REALIZADO EN LA UNIVERSIDAD DE CHILE, ENERO, 1983 (Nibaldo Bahamonde and Sergio Cabrera, 1984) QH541.5.F63E53 STRI

ENFOQUES SOBRE LAS ACCIONES ESTRATEGICAS DE LA FUNDACION DE PARQUES NACIONALES Y MEDIO AMBIENTE EN APOYO A LA GESTION AMBIENTAL EN PANAMA (Gerardo Caceres, Eduardo Duran y Dario Tovar, 1986) SB484.F2C119 STRI

ESTUDIO DE LA ADAPTACION OSMOTICA Y TOLERANCIA A CAMBIOS DE SALINIDAD EN DOLABRIFERA DOLABRIFERA (MOLLUSCA OPISTHOBANIA) (Eduardo E. Valdes Morales y Ediberto Pineda, 1986) QL430.4.V14 STRI

GUANACASTE NATIONAL PARK: TROPICAL ECOLOGICAL AND CULTURAL RESTORATION (Daniel H. Janzen, 1986) SB484.C8J35 STRI

HUMAN RELATED MORTALITY OF BIRDS IN THE UNITED STATES (Richard C. Banks, 1979) QL682.B218 STRI

IDENTIFICACION DE LARVAS DE PECES EN LA BAHIA DE PANAMA (Itzel D. Angulo, 1985) QL639.25.A59 STRI

AN ILLUSTRATED GUIDE TO THE MARINE DECAPOD CRUSTACEANS OF FLORIDA (Lawrence G. Abele and Won Kim, 1986) QL444.M33A13 STRI

INFORME DEL GRUPO DE TRABAJO SOBRE LA CUENCA DEL CANAL DE PANAMA: SUMARIO EJECUTIVO. (Grupo de Trabajo ..., 1986) S918.P2689 STRI

INFORME DEL SEMINARIO-TALLER SOBRE OLEAGINOSAS PROMISORIAS LUIS EDUARDO FORERO P. (Luis Eduardo P. Forero, 1985) QK495.P17F69 STRI

INFORME FINAL DE PROYECTO DE INVESTIGACION CODIGO 04-01/86-4: ESTUDIO DEL CRECIMIENTO CORPORAL Y GONADAL DE DORMITATOR

LATIFRON (RICHARDSON, 1844), EN EL RIO ABAJO, PANAMA (Cesar A. Villarrea, et al, editors, 1987) QL639.2.V719 STRI

AN INQUIRY INTO THE NATURE AND CAUSES OF THE WEALTH OF NATIONS, BY ADAM SMITH (Edward Cannan, editor, 1937) HB161.S65 STRI

INVASIVE ALIEN ORGANISMS IN SOUTH WEST AFRICA/NAMBIA (C.J. Brown, I.A.W. Macdonald and S.E. Brown, editors, 1985) qQH541.I612 STRI

LIGHT AND VISION (Conrad G. Mueller, Mae Rudolph, and the editors of Life, 1966) QP475.5.M94 STRI

LIMNOLOGY OF HARTBEEPOORT DAM (National Institute for Water Research. Limnology Division, 1985) qQH195.S6N27 STRI

MANAGEMENT OF INVASIVE ALIEN PLANTS IN THE FYNBOS BIOME (I.A.W. Macdonald, M.L. Jarman and P. Beeston, editors, 1985) qSB109.S6M26 STRI

MARINE SCIENTIFIC RESEARCH BOUNDARIES AND THE LAW OF THE SEA: DISCUSSION AND INVENTORY OF NATIONAL CLAIMS (David A. Ross and Therese A. Landry, 1987) JX4131.R67 STRI REF