



SEMINARS - ANCON CONFERENCE ROOM

Tuesday, **October 3**, noon seminar speaker will be EGBERT LEIGH, STRI staff.

MacArthur, Levins and Ecology.

NEXT WEEK

No noon seminar scheduled for Tuesday, **October 10**.

ARRIVING

September 30, PETER GLYNN and JOSHUA FEINGOLD, University of Miami, for the RV Benjamin cruise.

September 30, PRESTON HARDISON, University of Washington, and assistant, to study geographic variation in sex allocation in the lantern bass *Serranus baldwini*, for one year.

October 1 - December 25, KATHERINE BEAUCHAMP, University of California, to study the reproductive ecology of ahermatypic solitary corals on both sides of the isthmus of Panama.

October 3, KEN JOHNSON, University of Iowa, to study patterns of skeletal morphology, fertility and genetic variation in natural populations of *Manicina areolata* in San Blas for one year.

October 3 - December 31, PHYLLIS COLEY and TOM KURSAR, University of Utah, to study host plant nutritional quality and life history of Membracidae, and phenotypic plasticity in photosynthetic physiology of leaves.

October 4, DOLORES PIPERNO, STRI staff, to continue research for six months.

NEW PUBLICATIONS BY STRI STAFF, FELLOWS AND RESEARCH ASSOCIATES

Guzmán, H.M. and J. Cortés. 1989. Growth rates of eight species of scleractinian corals in the Eastern Pacific (Costa Rica). *Bulletin of Marine Science* 44(3): 1186-1194.

Leigh, E.G., D.M. Windsor, A.S. Rand and R.B. Foster. 1989. The impact of the "El Niño" drought of 1982-83 on a Panamanian semideciduous forest. In *Global Ecological Consequences of the 1982-83 El Niño-Southern Oscillation*, P.W. Glynn (ed.). Elsevier Oceanography Series.

Windsor, D.M., D.W. Morrison, M.A. Estribí and B. de Leon. 1989. Phenology of fruit and leaf production by "strangler" figs on Barro Colorado Island, Panama. *Experientia* 45: 648-653.

CALENDAR

OCTOBER 1989						
S	M	T	W	T	F	S
1	2	3	4	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	31				

October 3, Deadline for receipt of proposals for the Women's Committee of the Smithsonian Associates in the STRI Director's Office (deadline for Washington, D.C. is October 13).

October 9, Columbus Day is a STRI holiday.

October 11, Panamanian national holiday.

LAST CALL: REQUEST FOR PUBLICATIONS

All STRI staff, fellows, associates and visitors, please send reprints of papers resulting from STRI research, published between **October 1988** and **September 1989**, to Maria Luz Jimenez at Ancon, for annual STRI Bibliography.

FROM PROCUREMENT

Fax News...Now available in procurement, the new National Fax Director, designed to provide alphabetic, subject and geographic access to companies.

On Requisitions...All requisitions must be channeled through each facilities' secretary for the purpose of efficiency of follow-up on orders and receipt of merchandise. This applies to private and federal funds, to STRI staff as well as fellows and visitors - everybody. In the coming Fiscal year, after October 1, we will return to the requestor any requisition received without the facilities' requisition control number.

A Reminder...Please consult with facilities before processing any requisition for outboard motors, boats or radios, in order to ensure that the specifications are correct and consistent with equipment already in use, and that all accessories required for the installation are included in the order.

AIBS ANNUAL MEETING - AUGUST 1989

STRI was well represented at the recent AIBS meeting in Toronto. The following presentations were based on research done at STRI:

AIDE, MITCHELL T. The effects of synchronous leaf production in *Gustavia superba* on herbivory and growth.

CAVELIER, JAIME. Effects of fertilization on fine root biomass and production in two tropical rainforests.

COLEY, PHYLLIS D. Energy and fitness costs of herbivory and defense.

HOWARD*, JEROME J., BARBARA A. TERKANIAN, and RUTH A. STANFORD. Load harvest by leaf-cutting ants: foraging energetics or allometry?

KELLER, MICHAEL. Land use change and soil methane consumption in the tropics.

McIVOR, CAROLE C. Microhabitats of two congeneric damselfishes in a shallow back reef: Is interspecific competition implicated?

MOLOFSKY, JANE and BRIAN FISHER. The relative effect of habitat versus predation in predicting the survival of three shade-tolerant tree species in Panama.

MURAWSKI, D.A., J.L. HAMRICK, M.D. LOVELESS, and STEPHEN P. HUBBELL. Genetic variation and mating structure of rain forest trees in relation to density and rarity.

MULKEY, S., J. WRIGHT and A.P. SMITH. Dry season gas exchange drought acclimation of an understory shrub in a tropical moist forest.

O'HARA, E.M., R.K. WIEDER and S. JOSEPH WRIGHT. Nutrient cycling through litter in the tropical moist forest of Barro Colorado Island, Panama.

SHULTZ*, LEILA M., PHILIP RUNDEL, STEVEN K. MULKEY and S. JOSEPH WRIGHT. Leaf anatomy and carbon isotopes in a tropical rainforest: watering response of an understory shrub.

WELDEN, CHARLES W. and STEPHEN P. HUBBELL. Growth, survivorship and recruitment responses of juvenile plants in a 50-ha tropical forest plot on Barro Colorado Island, Panama.

WRIGHT, S. JOSEPH. Seasonal drought and the phenologies of shrubs in a tropical moist forest.

YAVITT*, JOSEPH B., R. KELMAN WIEDER and S. JOSEPH WRIGHT. Characteristics of soils in a seasonally wet forest on Barro Colorado Island, Panama.

ZIMMERMAN, JESS K. Ecological aspects of labile gender expression in a population of the Panamanian orchid *Catasetum viridiflavum*.

AWARDS TO STRI PERSONNEL

FRANCISCO RIVERA and CARLOS URBINA received outstanding performance awards for their work this year. LUIS TURNER, LUIS POLANCO and FERNANDO OGLIVIE received special activity or service cash awards. Congratulations to all.

NOTICIAS DE LA OFICINA DE PERSONAL

Las siguientes personas fueron convertidas de contratistas a empleados federales a partir del 22 de octubre de 1989:

GENEROSO MENDOZA, Centro Tupper.
LASTENIO GUZMAN, Taller de Naos.
GILBERTO HOWELL, Taller de Naos.

ANNUAL LEAVE

Leonor Motta, Sept. 29 - Oct. 10
Osmila Sanchez, Oct. 2 - 11
Audrey Smith, Oct. 2 - 10

NEW BABY

Congratulations to Haris Lessios and Kristin Neva, who have a new baby girl. ANNA SOPHIA was born at 4 p.m. on September 23rd and weighed 7 lbs. 11 ozs.

WORDPERFECT COURSE

Nova University is offering a 16-hr. introductory course on WORDPERFECT 5 (IBM DOS), beginning **October 7**. The course will take place Saturdays from 9 a.m. to 1 p.m. at the Colegio La Salle. Cost: \$80 plus \$20 inscription.

LOST AND FOUND

The following book was left at the STRI Library, if yours please claim--*Flowering Plants, Origin and Dispersal* by A. Takhtajan.

STRI ACTIVITIES



Construction workers from Don Ted S.A. are seen installing the new sign identifying the Tupper Center. (Photo by M. Guerra)



Nelida Gomez seen guiding a special group on the Nature Trail on BCI. This is one of the many duties assigned to Ms. Gomez as the new BCI Coordinator. (Photo by M. Guerra)

ASSISTANTS AVAILABLE

MARIA EFTHIMIADIS is interested in working as an assistant at STRI. She has a BS in Medical Technology from the Panama Canal College, and worked as a biologist with the Tropic Test Center doing biological and chemical analyses. If interested, call 82-3839.

KYLE HARMS (311 Ash Ave., Ames, Iowa 50010, Tel: 515-292-3917) is interested in working as an assistant, preferably in tropical research on vertebrate species, before continuing his graduate studies. He will graduate from Iowa State University in December 1989 with a BS in biology and a Spanish minor. He has experience with radio-telemetry studies and with fish hatchery work.

JOB OPPORTUNITIES

The School of Natural Resources, University of Michigan, is reopening the search for a full or associate professor in Conservation Biology and Ecosystem Management in their master's program. Qualifications include a Ph.D. in either natural resources or biological or social sciences, with a specialization and

interest/experience in conservation or biological diversity. Responsibilities include leading a graduate and undergraduate field of study in Conservation Biology and Ecosystem Management in close collaboration with colleagues in the Division of Biological Sciences and relevant Social Science units, developing an externally-supported research program, and teaching a minimum of two courses annually. If interested, write or call Burton Barnes (313-764-1407) or Paul Nowak (313-763-1312), Dana Building 430E University, University of Michigan, Ann Arbor, Michigan 48109-1115.

The Biology Department at New Mexico State University seeks a tenure-track Assistant Professor for appointment as early as Fall 1990. Candidates should have a Ph.D. and research interests in one or more of the following areas of avian biology: behavior, ecology, evolution, physiology, or systematics. Application deadline is **November 15**; application should include CV, statement of research interests, and three references. Send to Naida Zucker, Dept. of Biology, New Mexico State University, Dept. 3AF, Box 30001, Las Cruces, NM 88003 (Fax 505-646-6187). (You may contact J. Christy for further information.)

STRI LIBRARY NEW BOOK LIST

ARBOLES Y FLORES DEL AJUSCO (G. Benitez Badillo & M. Equihua Zamora, 1986)
QK211.B46 1986 STRI.

AUSTRALASIAN CHALCIDOIDEA (HYMENOPTERA) (Z Boucek, 1988)
QL568.C4B75 1988 STRI.

THE BEHAVIORAL ECOLOGY OF TERRITORY DEFENSE IN A COMMUNITY OF NEOTROPICAL ARBOREAL ANTS (ES Adams, 1987)
QL568.F7A211 1987a STRI.

BIRD RESPIRATION, v. I & II (TJ Seller, editor, 1987)
QL698.B544 1987X STRI.

BLUEPRINT FOR THE ENVIRONMENT : A PLAN FOR FEDERAL ACTION (TA Comp, editor, 1989)
HC79.E5B65 1989 STRI.

COASTAL-OFFSHORE ECOSYSTEM INTERACTIONS (B.-O Jansson, editor, 1986)
QH541.5.C65C592 1986X STRI.

ENCYCLOPEDIA OF HUMAN EVOLUTION AND PREHISTORY (I. Tattersall et al, editors, 1988)
GN282.E53 1988X STRI.

FROM CLOCKS TO CHAOS : THE RHYTHMS OF LIFE (L. Glass & MC MacKay, 1988)
QH527.G595 1988X STRI.

EL GENERO PHYLLOPHAGA EN MEXICO : MORFOLOGIA, DISTRIBUCION Y SISTEMATICA SUPRAESPECIFICA (INSECTA: COLEOPTERA) (MA Moron, 1986)
QL596.S3M68 1986X STRI.

INTERNATIONAL DIRECTORY OF MARINE SCIENCE LIBRARIES AND INFORMATION CENTERS (CP Winn, compiler, 1987)
Ref Z675.M35W77 1987 STRI.

LATE CENOZOIC CORAL OF SOUTH FLORIDA (NE Weisbord, 1974)
QE778.W38X 1974 STRI.

LIVING WITH SEABIRDS (B. Nelson, 1986)
QL698.P48N445 1986X STRI.

THE MARINE ALGAE AND COASTAL ENVIRONMENT OF TROPICAL WEST AFRICA, 2nd Edition (GW Lawson & DM John, 1987)
QK576.W5L42 1987 STRI.

NITROGEN CYCLING IN COASTAL MARINE ENVIRONMENTS (TH Blackburn & J. Sorensen, editors, 1988)
QH344.N54 1988X STRI.

PUBLIC POLICIES AND THE MISUSE OF FOREST RESOURCES (R. Repetto & M. Gillis, editors, 1988)
HD9768.D44P82 1988X STRI.

THE QUAILS, PARTRIDGES, AND FRACOLINS OF THE WORLD (PA Johnsgard, 1988)
QL696.G27J65 1988X STRI.

RESERVAS DE LA BIOSFERA DURANGO, MEXICO (UNESCO-MAB, 1978)
QH77.M6R43 1978 STRI.

SHELLS OF QUEENSLAND AND THE GREAT BARRIER REEF : MARINE GASTROPODS (JW Short & DG Potter, 1987)
QL430.4.S55 1987 STRI.

STATION "S" OFF BERMUDA : PHYSICAL MEASUREMENTS 1954-1984 (Woods Hole Oceanographic Institution & Bermuda Biological Station for Research, 1988)
GC535.S79 1988 STRI.

SLUG AND NETTLE CATERPILLARS : THE BIOLOGY, TAXONOMY AND CONTROL OF THE LIMACODIDAE OF ECONOMIC IMPORTANCE ON PALMS IN SOUTH-EAST ASIA) MJW Cock, et al., editors, 1987)
QL561.L54S63 1987 STRI.

WHITHER ETHOLOGY? (PPG Bateson & PH Klopfer, editors, 1975)
QL751.B32 1975 v.8 STRI.

THE WORKS OF CHARLES DARWIN : AN ANNOTATED BIBLIOGRAPHICAL HANDLIST (RB Freeman, 1965)
Z8217.F85 STRI.

