

STRI newsletter

May 29, 1992

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panama

No. 22

TUPPER CENTER SEMINARS

Tuesday, June 2, noon seminar speaker will be Thelma Rowell, University of California at Berkeley.

Mutualistic, selfish, and other interpretations of social behavior.

Next Week

Tuesday, June 9, noon seminar speaker will be Therese Hart, Wildlife Conservation International.

Large forest plots and their use in studying mammal distribution in the Ituri forest, Zaire.

PEOPLE

Arrivals

- Peter Meylan and Tag Engstrom, Eckerd College, May 31-Jun 15, to determine population structure and migratory patterns of marine turtles at Bocas del Toro.
- Mark Moffett, Harvard University, to do photography work with poison-dart frogs.
- Darlyne Murawski, Univ. of Massachusetts, photographic study of the natural history and co-evolution of *Heliconius* butterflies for National Geographic Magazine.
- Nigel Pittman, Princeton Univ., Jun 1-Aug 15, to work on comparative ontogeny of leaf morphology in shade-tolerant vs shade-intolerant tree species on BCI.
- Kyle Harms, Princeton Univ., Jun 1-Nov 30, to work on seedling dynamics as potential mechanisms of population regulation in selected tropical tree species on BCI.
- Joshua Feingold, Rosenstiel School of Marine and Atmospheric Science, to work with J. Mate on the effects of nutrients and temperature on various metabolic aspects of corals.
- Bruce Rogers, Univ. of Kentucky, Jun 2-Aug 1, to work on project: A test of sex change models using the clown wrasse, *Halichoeres maculipinna*.



On May 14, the legislators of the Commission for Agriculture and Environment of the National Assembly visited the new installations on BCI, toured the Island by boat and were briefed on research projects in progress ••• El 14 de mayo los legisladores de la Comisión de Asuntos Agropecuarios y Conservación del Medio Ambiente visitaron las nuevas instalaciones de Barro Colorado, recibieron información sobre las actividades de investigación en progreso, e hicieron un recorrido en bote alrededor de la Isla.

(Foto: M.A. Guerra)

- Damond Kylo, Univ. of Missouri, Jun 2-Sep 2, to do research on plant inoculation by VA mycorrhizae and their effects on growth and reproduction of differentially stressed plants of *Pharus latifolius* on BCI.
- Marta Lucia Baena, Univ. del Valle, Colombia, to work with John Tobin on BCI.
- Theresa Hart, Wildlife Conservation International, Jun 4-10, to present seminar and consult with Richard Condit's staff about setting up permanent forest plots in Africa.
- Elizabeth Kalko, National Museum of Natural History, June 5-Aug 21, to work on demography of figs, and hunting behavior of bats on BCI.
- Catherine Craig, Yale University, Jun 5-Oct 30, to study on the effects of insect learning and memory on spider foraging performance, with two assistants on BCI.

Departures

- Llewellyn Hillis and Paul Colinvaux, Jun 2-Aug 20. Dr. Hillis will participate in New England Biolabs Workshop, and continue molecular research on green algae at the Marine Biological Laboratory, Woods Hole. Dr. Colinvaux will attend the American Paleontological Congress in Chicago in late June, then to Russia to

organize field work with Russian Academy of Sciences.

- Anthony Coates, May 30-Jul 3, to Washington, D.C. on official business and some vacation time and to Chicago, IL, to attend the North American Paleontologic Congress.

Stanley Heckadon-Moreno Nuevo Miembro de Junta Directiva de CIFOR

Stanley Heckadon, sociólogo e investigador asociado del STRI, ha sido escogido recientemente como miembro de la junta directiva del nuevo Centro Internacional para la Investigación Forestal (CIFOR), conocido en inglés como Centre for International Forestry Research. El Dr. Heckadon-Moreno representará a los países de América Latina y el Caribe.

El CIFOR es un centro científico para la investigación forestal con una visión estratégica a nivel mundial, y es la más nueva de las instituciones de investigación científicas del CGIAR (Grupo Consultivo Internacional para la Investigación Agrícola). Este último es una asociación de 40 donantes que apoyan una red de 16 centros internacionales de investigación agrícola con una masa crítica de mil científicos. CIFOR conducirá investigación forestal estratégica dirigida al manejo sostenido de los bosques tropicales de los países en vías de desarrollo. La sede del nuevo organismo científico estará en Asia. El centro operará en estrecha colaboración con las instituciones de investigación existentes en Asia, África y América Latina.

THINGS YOU SHOULD KNOW

From the Security Office

De la Oficina de Seguridad

Beginning on June 1, all employees and visitors must show their STRI ID cards in order to have access at any time to the STRI enclosed parking areas. Before 6 am and after 6 pm, the security guards need to log in car license plate numbers, so please stop at their request. They will also request identification (I.D. cards, cedulas or other) from anyone wishing to enter the STRI buildings. This system will substitute the sign-in log books that were being used after hours at the Tupper Reception. We appreciate everyone's cooperation. Remember that the guards are here for our protection and security

••• *Efectivo el 1ero de junio, todos los empleados y visitantes*

de STRI deberán mostrar su identificación de STRI para tener acceso, a cualquier hora, a las áreas encerradas para estacionamiento de vehículos. Antes de las 6 am y después de las 6 pm, el guardia de seguridad necesita anotar el número de la placa, así que por favor deténganse ante su señal. Ellos también le pedirán identificación (tarjeta de identificación, cédulas u otro documento) a todas las otras personas que deseen entrar a los edificios del STRI. Este sistema sustituye el registro en el libro que se estaba usando hasta ahora en la recepción del Tupper. Agradeceremos la cooperación de todos. Recuerden que los guardias están aquí para nuestra protección y seguridad.

Guidelines for the Use of the Tupper Conference Center and Meeting Rooms

- Written requests should be channeled through Vielka Vergel or Ana María Ford at least three working days before the event, to allow sufficient time for internal coordination activities.
- A responsible person should be appointed for the event in question. The responsible person must arrive early enough to verify that the assigned room and the requested services are ready. This person is also responsible for remaining at the closing of the event to verify that the electricity is turned off and the facilities are properly closed and secured.
- In the event that food is served, arrangements should be made by the responsible person, and obtaining the approval of funding should be obtained well in advance of the event.

Urgent Request from BCI

BCI's only QMS-810 laser printer is broken. Users would like to borrow a laser printer or laser quality printer for two weeks until theirs is repaired. Please contact Nélica Gómez, BCI scientific coordinator.

ANNOUNCEMENTS

Scholarships Available

The Federal Employee Education and Assistance Fund (FEEA) is pleased to announce their 1992 Scholarship Program. FEEA scholarships will be granted for the 1992-1993 school year and range in amount from \$250 to 1,000 per award. All applications must be postmarked on or before June 5, 1992.

Federal employees may be part-time students; dependents must be full time students. Further information and application forms may be obtained from the STRI Office of Education.

Thrift Savings Plan Open Season

The Thrift Savings Plan (TSP) Open Season started on May 15, 1992 and will end on July 31, 1992. Both Federal Employees Retirement System (FERS) and Civil Service Retirement System (CSRS) U.S. employees are eligible to participate in the TSP. Employees hired on or before December 31, 1991 are eligible to participate during this open season. To enroll or change your enrollment, complete a TSP-1 election form available in the STRI Office of Human Resources.

New Books at STRI Minibookstore

- El Desarrollo de las Ciencias Naturales y la Medicina en Panamá. Estudio Introductorio y Antología. Tomo 13. \$10.*
- Conservation Concerns, A Guide for Collectors and Curators, \$12.95*
- Identificación de los Anopluros de Panamá, por Eustorgio Méndez \$2.00*
- Geografía de Panamá, por Omar Jaén Suárez \$10.*
- Frutales Nativos y Silvestres de Panama, por Rodolfo E. Mendoza \$4.25*

At Tupper Center

- Tue, Jun 2 Administrative Staff Meeting, Large Meeting Room, 9:30am-12
- Wed, Jun 3 *Amigos de la Biblioteca* Meeting, Small Meeting Room, 9-11am
- Fri, Jun 5 "Behind the Scenes" Volunteer Program Ceremony, Meeting Rooms, 9am-12
IV Encuentro Conservacionista Nacional-CONAMA, Auditorium, 9am-12

1992 Divisional Soccer League Schedule/Panama Canal Commission

- Jun 1, 4:30 pm, Towboat vs STRI, T. Station
 - Jun 4, 4:30 pm, Canal Srvs. vs STRI, T. Station
 - Jun 9, 4:30 pm, Engineering vs STRI, Curundu
 - Jun 19, 4:30 pm, STRI vs Locks, Curundu
 - Jun 23, 4:30 pm, STRI vs Apprentice, Curundu
 - Jun 25, 4:30 pm, STRI vs MID, Curundu
 - Jun 29, 4:30 pm, STRI vs Logistical, Curundu
 - Jul 1, 4:30, STRI vs Grounds, Curundu
- For more information call Daniel Millan.



The facilities Department and the Office of Design and Construction moved to new permanent installations in the old Pastor' House. Mail for these two offices should no longer be addressed to Tivoli. From left to right are Julio Polo, Dorita Justo and Félix Sánchez.

(Foto: M.A. Guerra)

STRI • University of Panama

May 13, 1992

Dear Dr. Rubinoff:

Dr. Celestino Arauz has told me he has already expressed to you our appreciation for all the kindnesses received during our visit to Barro Colorado.

I wish to reiterate my gratitude, and to congratulate you on the excellent management of the site. Truly, the founders had vision when they decided to conserve the natural fauna and flora of the island. There is in you, science, commitment and empathy.

The University is very satisfied by relations maintained with STRI.

With my best regards, Sincerely,

Dr. Carlos Ivan Zúñiga Guardia, Rector, Universidad de Panamá

13 de mayo de 1992

Estimado Doctor Rubinoff:

El Dr. Celestino Araúz me expresó que había agradecido a usted todas las atenciones recibidas con motivo de nuestra visita a Barro Colorado.

Deseo reiterar ese agradecimiento. Además, expreso mis felicitaciones por el buen manejo que se tiene en el área. En verdad, fue genial la iniciativa de los gestores de la institución que conserva tantas especies vivas. Hay en ustedes, ciencia, solidaridad y ternura.

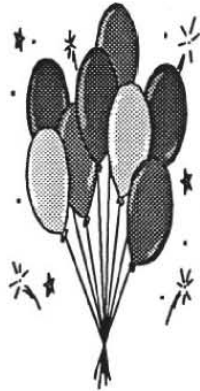
La Universidad se siente satisfecha por todas las relaciones que mantiene con el Instituto.

Reciba mis cordiales saludos. Atentamente,

Dr. Carlos Iván Zúñiga, President, University of Panama

June Birthdays at STRI

Rodolfo Selles	1
Heky Andrade	2
Rosa Argelis Guevara	2
Nereida Hernandez	2
Bonifacio de León	5
Gabriel Abrego	7
Gloria Maggiori	7
David West	15
Maritza Perurena	15
Aureliano Valencia	16
Shwn McCafferty	22
Leo van Valkenhoef	29
Carmen Sucre	30



BCI Toad Derby Day

Saturday, June 6, is Derby Day on BCI. Please make reservations with Vielka Liao.

STRI NEW PUBLICATIONS

Allen, G.R. and Robertson, D. Ross. 1991. "Description of two new genera and four new species of triplefins (Pisces: Tripterygiidae)." *Revue Francais Aquariologie* 18: 79-82.

Arosemena, Fernando, Ibáñez, Roberto and de Sousa, Francisca. 1991. "Una Especie Nueva de *Anolis* (Squamata: Iguanidae) del Grupo *latifrons* de Fortuna, Panamá." *Revista de Biología Tropical*, 39(2): 255-262.

Bernhard Baur, Karl-Josef Dietz and Winter, Klaus. 1992. "Partial Purification and Characterization of Phosphoenolpyruvate carboxylase kinase from *Mesembryanthemum crystallinum*." *Plant Physiology Suppl.* 99: 880.

Cooke, Richard G. 1992. "Prehistoric Nearshore and Littoral Fishing in the Eastern Tropical Pacific: An Ichthyological Evaluation." *Journal of World Prehistory* 6(1): 1-49.

D'Croz, Luis, Del Rosario, Juan B. and Gómez, Juan A. 1991. "Upwelling and Phytoplankton in the Bay of Panama." *Revista de Biología Tropical* 39(2): 233-241.

Fincke, Ola M. 1992. "Interspecific Competition for Tree Holes: Consequences for Mating Systems and Coexistence in Neotropical Damselflies." *The American Naturalist* 139(1): 80-101.

Fincke, Ola M. 1992. "Consequences of Larval Ecology for Territoriality and Reproductive Success of a Neotropical Damselfly." *Ecology* 73(2): 449-462.

Guzmán, Héctor M., Robertson, D. Ross and Díaz, Marco L. 1991. "Distribución y Abundancia de Corales en el Arrecife del Refugio de Isla Iguana,

Pacífico de Panamá." *Revista de Biología Tropical* 39(2): 225-231.

Knowlton, Nancy, Weil, Ernesto, Weight, Lee, and Guzmán, Hector. 1992. "Sibling Species in *Montastraea annularis*, Coral Bleaching, and the Coral Climate Record." *Science* 255: 330-333.

Lessios, Harilaos A. 1992. "Testing Electrophoretic Data for Agreement with Hardy-Weinberg Expectations." *Marine Biology* 112: 517-523.

Losos, Jonathan B., Andrews, Robin M., Sexton, Owen J. and Schuler, Alexis L. 1991. "Behavior, Ecology, and Locomotor Performance of the Giant Anole, *Anolis frenatus*." *Caribbean Journal of Science* 27(3-4): 173-179.

Molofsky, J. and Augspurger, Carol K. 1992. "The Effect of Leaf Litter on Early Seedling Establishment in a Tropical Forest." *Ecology* 73(1): 68-77.

Quintero Diomedes and Aiello, Annette (Editors). *Insects of Panama and Mesoamerica: Selected Studies*. Oxford: Oxford University Press.

Ranere, Anthony J. and Cooke, Richard G. 1991. "Paleoindian Occupation in the Central American Tropics." In: *Clovis: Origins and Adaptations*: 237-253. Edited by Robson Bonnichsen and Karen L. Turnmire.

Roubik, David. 1992. "Loose Niches in Tropical Communities: Why are There so Few Bees and So Many Trees?" In: *Effects of Resource Distribution on Animal-Plant Interactions*: 327-354. Academic Press.

Tracy, C.R. and George, T.L. 1992. "On the Determinants of Extinction." *American Naturalist* 139(1): 102-122.

West Eberhard, Mary Jane. 1992. "Genetics, Epigenetics, and Flexibility: a Reply to Crozier." *American Naturalist* 139: 224-226.

Zeh, David and Jeanne Zeh. "Dispersal-generated Sexual Selection in a Beetle-riding Pseudoscorpion." *Behavioral Ecology and Sociobiology* 30: 135-142.

Zeh, David and Jeanne Zeh. 1992. "Failed Predation or Transportation? Causes and Consequences of Phoretic Behavior in the Pseudoscorpion *Dinocheirus arizonensis* (Pseudoscorpionida: Chernetidae)." *Journal of Insect Behavior* 5(1): 37-49.

Zeh, David and Jeanne Zeh. 1992. "Sexual Selection and Sexual Dimorphism in the Harlequin Beetle *Acrocinus longimanus*." *Biotropica* 24(1): 86-94.

From: 365 Ways to Save our Planet

• Page-a-Day Calendar •

The shorter the office memo, the smaller the paper it fits on. You'll cut paper waste—and your co-workers may actually read your message.

STRI newsletter supplement

May 29, 1992

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STRI LIBRARY NEW BOOKS

- An Atlas of India. Ref G2280.A88 1990 STRI.
- Australian tropical rainforests: science, values, meaning / editors, L.J. Webb and J. Kikkawa.
QH541.5.R27A93 1990 STRI.
- Avian foraging: theory, methodology, and applications: proceedings of a International Symposium of the Cooper Ornithological Society held at Asilomar, California, December 18-19, 1988 / Michael L. Morrison ... [et al.], editors.
QL698.3.A957 1990 STRI.
- The Bassett Maguire festschrift: a tribute to the man and his deeds / William R. Buck, Brian M. Boom, and Richard A. Howard, editors.
QK45.2.B319 1990 STRI.
- Cephalopod computerized bibliographic system (CCBS) [computer file/] Clyde F.E. Roper.
MRDF12 STRI.
- Comisión Permanente del Pacífico Sur-Colombia, Chile, Ecuador, Perú: estructura, objetivos, actividades y programas = Permanent South Pacific Commission-Colombia, Chile, Ecuador, Peru: structure, purposes, activities, programs.
JX4131.C65 1985X STRI.
- The Correspondence of Charles Darwin, v.7: 1858-1859 supplement 1821-1857 / [editors, Frederick Burkhardt, Sydney Smith].
QH31.D2A33 1985X v.7 STRI.
- Ecotones: the role of landscape boundaries in the management and restoration of changing environments / edited by Marjorie M. Holland, Paul G. Risser and Rober J. Naiman.
QH541.15.R45E27 1991X STRI.
- The Fish resources of the northwest Pacific / by S. Chikuni.
SH214.5.C53 1985 STRI.
- Fisheries acoustics: a practical manual for aquatic biomass estimation / by K.A. Johanesson, R.B. Mitson.
SH344.23.E3J65 1983 STRI.
- Geographical information systems and remote sensing in inland fisheries and aquaculture / by Geoffery J. Meaden and James M. Kapetsky.
SH331.5.R4M48 1991 STRI.
- Insectos y acarinos de Colombia / Adalberto Figueroa Potes.
QL481.C6F47 1977 STRI.
- An Interdisciplinary bibliography of freshwater crayfishes (Astacoidea and Parastacoidea) from Aristotle through 1988 [computer file/] Janice Clark and C.W. Hart, Jr.
MRDF12 STRI.
- Leaf venation patterns, v.6: Flacourtiaceae / by Edward P. Klucking.
QK649.K66 1986 v.6 STRI.
- Literature on the Polychaeta (Annelida) [computer file/] Linda A. Ward and Kristian Fauchald.
MRDF12 STRI.
- Materials and methods used in marking experiments in fishery research / by Rodney Jones.
SH156.8.J78 1979 STRI.
- Nuestros ancestros de las Antillas Francesas: interpretaciones históricas y sociológicas de una minoría nacional / autor, Francisco Marrero Lobinot.
F1577.B55M35 1984 STRI.
- Plant biochemical regulators / edited by Harold W. Gausman.
SB128.P48 1991X STRI.
- Resurrection of *Hyla ornatissima* Noble (Amphibia, Hylidae) and remarks on related species of green frogs from the Guiana area: notes on the herpetofauna of Surinam VI / by M.S. Hoogmoed.
QL668.E24H77 1979 STRI.
- Selected multilateral treaties in the field of the environment / editor, Alexandre Charles Kiss.
K3583.S45 1983X STRI.
- Tropical blossoms of the Caribbean / text and color photography by Dorothy and Bob Hargreaves.
QK225.H22 1960h STRI.
- Tropical grassy weeds / edite by F.W.G. Baker and P.J. Terry.
SB611.5.T85 1991 STRI.
- Periodicals
Journal of Molecular Evolution, v.34, 1992-