

STRI newsletter

June 24, 1994

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 24

TUPPER CENTER SEMINARS

Tue, Jun 28, noon seminar speaker will be Andrew Martin, STRI.

Historical Biogeography of the Panamanian Fresh water Fishes

Abstract

Information about the distributions of species is combined with phylogenies of populations inferred from comparative analyses of homologous mitochondrial DNA sequences to estimate the timing of colonization and pattern of diversification for several species of freshwater fishes. The information suggests that the history of freshwater fishes in Panama is complex and involved multiple invasions from South America, localized extinction events, and rapid dispersion throughout Panama. Population phylogenies and geological history are considered in the light of reciprocal illumination, resulting in an image that provides greater depth to our understanding of the history of Panama and the diversity and evolution of the regions biota.



*Jim Roper explains how to handle the snake *Spilotes pullateu* to participants of the University of Pennsylvania field course "Tropical Biology" held from May 28 to June 16 at the Gamboa School and Pipeline Road, on Thursday, June 16 ••• Jim Roper explica cómo manejar la culebra *Spilotes pullateu* a los participantes del Curso de Campo de la Universidad de Pennsylvania, que se llevó a cabo del 28 de mayo al 16 de junio en la Escuela de Gamboa y en el Camino del Oleducto, el jueves 16 de junio.*

(Foto: A. Montaner)

PEOPLE

Arrivals

- Elizabeth Newell, Hobart and William Smith Colleges, NY, Jun 25-2 Jul, to work with S. Joseph Wright, at Tupper.
- Daniel Hahn and Katie MacNeale, University of California, Jun 26-31 Dec, to work with Wyane Sousa and Betsy Mitchell, at Galeta.

Nuestros Bosques: Nuestra Herencia

El Instituto Smithsonian de Investigaciones Tropicales y la Asociación Nacional para la Conservación de la Naturaleza (ANCON) se complacen en anunciar que la exhibición itinerante "Nuestros Bosques: Nuestra Herencia" será presentada nuevamente en el Centro Tupper del Smithsonian, del 5 de julio al 5 de agosto, de 8am-5pm de lunes a viernes. Favor llamar al 27-6022 para hacer arreglos para visitas guiadas de grupos escolares u otros.

- Juanita Tutt, Director, SI Health Services, Karen Vesterby and Avelina Ross, SI Health Services Department, Jun 26-1 Jul, to training courses and consult with staff.
- Brett Ratcliffe and Mary Jameson, University of Nebraska, Jun 27-18 Jul, to study the Dynastinae (Coleoptera) of Panama and Costa Rica, at Gamboa.
- Laurel Breece, UCLA, Jun 27-27 Jul, to do an archaeological inspection of continuity and change at Nata, a pre-columbian and colonial form in Central Panama.
- Barbara Schneider, Program Manager, Office of the Assistant Secretary for the Arts and Humanities and John Copolla, Director, SI Office of Exhibit Central, Jun 27-1 Jul, to visit STRI and consult with colleagues.
- John Pandolfi, Australian Institute of Marine Science, Jun 28-Jul '97, to conduct a paleoecological test of stability in pleistocene reef coral assemblage, at Tupper.
- Catherine Lovelock, Post-doctoral fellow from The Australian National University, Jun 28-Jul '97, to study the photosynthetic responses of rainforest plants, at Tupper.

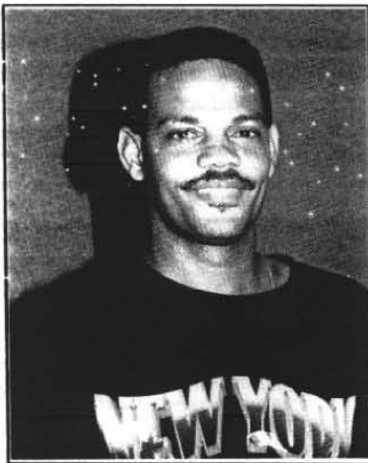
- Patricia Bermejo, Universidad Autónoma de México, Jul 1-31 Aug, to work with Gerhard Zotz, on the demography of the epiphytic orchid, *Dimerandra emarginata*, on BCI.
- Huber Herz, University of Vermont, Jul 1-31 Jan '95, to work with Melvin Tyree on his project of the water relations of *Caularthron bilamentatum* (Orchidacea), on BCI.
- Shannon Horan and Tonya Rawlings, Cornell University, to work with Deedra McClearn on her survey of mammal communities at three forest sites in the Barro Colorado Nature Monument, on BCI.
- John Nason and one assistant, University of Georgia, Jul 1-31 Aug, to work with James Hamrick on a general analysis of tropical tree populations, on BCI.

Departures

- Jorge Ventocilla, Jun 30-19 Jul, to Washington D.C., to attend the Festival of American Folklife sponsored by the Smithsonian Institution.

New Baby

Our congratulations to Biff Bermingham and Chimène Longwater for the birth of their daughter, Georgia Macrae on Tuesday, Jun 22. She weighed 7.5 lbs.



10 Years of Service

Luis Turner received a diamond pin for 10 years of service at STRI on Friday, Jun 17, during Father's Day celebration, at the Tupper Center. Turner started working for STRI in February 1984 as a procurement purchasing agent. Before coming to STRI he was working at the Corporación Azucarera La Victoria. During these past years at STRI, Luis has been an active organizer of sport events and has provided special assistance for the use and purchasing of computer equipment. In addition, he has been the author of several computer programs for the use of STRI, one of them the Multi-User Vendor Master file program, currently in use by the Procurement Department. Due to exceptional services rendered at the Institute, Luis has been received commendations and special service awards.

Scholarship

Elizabeth Sanchez, library aid at the STRI Library, has received a scholarship from the Panama Canal College to study English. Elizabeth works full time and studies English at night. The scholarship is for four semesters. She was awarded the scholarship because of her sustained excellent grades.

Nota de Duelo

Orville Hale, quien prestó sus servicios en STRI de 1975 a 1989 como cocinero en BCI, falleció el martes 21 de junio de un ataque cardíaco. Nuestras condolencias a sus deudos, en especial a su esposa Emeria y a su sobrina política, Oris Acevedo, y a todos sus amigos en STRI.

THINGS YOU SHOULD KNOW

At the Tupper Center

- Mon, Jun 27 ■ SI Bloodborne Pathogen Standard Seminar, Conference Room, 1pm
- Tue, Jun 28 ■ SI Bloodborne Pathogen Standard Seminar, Auditorium, 9am.
- Noon seminar by Andrew Martin, AUD.
- Wed, Jun 29 ■ STRI Short-term Fellowships Review Meeting, SMR, 1:30pm.

At the Culebra Marine Reserve

- Tue, Jun 27 Instituto Enrico Fermi
- Wed, Jun 29 Centro Infantil Montessori
- Thu, Jun 30 Asociación Pride
- Fri, Jul 1 Escuela Santo Domingo
- Sat, Jul 2 Asociaciones Cívicas Unidas

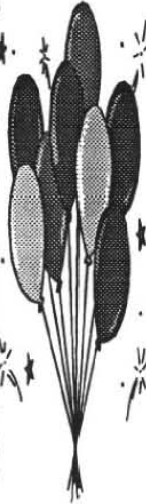
Safety News ••• Sobre Seguridad

The Security and Safety Offices invite all employees to the SI's Bloodborne Pathogen Standard Seminars on Mon, Jun 27, TC Conference Hall at 1pm, Tue, Jun 28, TC Auditorion, 9am and Jun 30, BCI Conference Room at 8:30am. The conferences intend to explain the "universal precautions" to be observed when exposed to body fluids. In a society living with bloodborne-related epidemics like AIDS and hepatitis, it is important to observe the right precautions. ••• *Las Oficinas de Seguridad y Seguridad Laboral invitan a todo el personal a los "Standard Seminars" de SI sobre Patógenos Residentes en la Sangre el lunes 27 de junio en el Salón de Conferencias del Tupper a la 1pm, el martes 28 de junio en el Auditorio y el jueves 30 en el Salón de Conferencias de BCI a las 8:30am. El objetivo de estas conferencias es explicar las "precauciones universales" que deben observarse al exponerse a fluidos corporales. En una sociedad donde se vive con enfermedades infecciosas relacionadas con la sangre como el SIDA y la hepatitis, es esencial contar con estos conocimientos.*

ANNOUNCEMENTS

STRI July Birthdays

Juan Campos	3
Harry Barnes	5
Dora Justo	10
Raineldo Urriola	16
Orlando Rodríguez	18
Abdiel Osés	19
Oris Acevedo	22
Andrés Lee	22
Antonio Montaner	23
Jennifer Campuzano	26
Ana L. de la Espada	26
Carlos Grael	26
Egbert Leigh	27
Marian L. Cabrera	27
Alejandro Ureña	28
Ricardo Thompson	30
Marek Zdzikot	31



Smithsonian Research in Honduras

Investigaciones en Honduras

The government of Honduras recently designated the Los Cochinos Archipelago (Atlantic side) as a national marine park and a "protected ecological area". The Honduran government formed a Commission consisting of representatives of the government ministries and other authorities involved in the maintenance of the Los Cochinos area to implement the decree creating the National park. STRI was invited and subsequently agreed to write this management plan. In addition, STRI agreed to conduct the biological monitoring of the Archipelago and to be responsible for advising the Foundation and the Commission on types of research to be conducted at Los Cochinos. The Foundation and Commission have agreed that the management plan will constrain the kinds of activities to be permitted in the Archipelago over the next five years ••• *El gobierno de Honduras designó recientemente al Archipiélago de Los Cochinos en el Atlántico como un parque marino nacional y una "area ecológica protegida". El gobierno Hondureño conformó una comisión que consiste de representantes de los ministerios de gobierno y otras autoridades que tienen que*



Pablo Amarís recibe uno de los regalos que fueron distribuidos entre los "Papás" de Tupper y Tívoli, durante la celebración del Día del Padre, en el Centro Tupper, el viernes 17 de junio. (Foto: M.A. Guerra)

ver con el mantenimiento del área de Los Cochinos para poner en marcha el decreto que crea el Parque Nacional. STRI fue invitado y aceptó desarrollar el plan de manejo, además de llevar a cabo un monitoreo biológico del Archipiélago y ser responsable por aconsejar a la Fundación sobre la clase de investigación más apropiada en Los Cochinos. La Fundación y la Comisión han acordado que el plan de manejo limitará el tipo de actividades que se permitirán en el Archipiélago durante los próximos cinco años.

NEW STRI PRESENTATIONS

At the 1994 International Meeting of the Society for Conservation Biology and the Association for Tropical Biology 7-11 Jun, Mexico

- Olson, D. "The Distribution of Leaf Litter Invertebrates Along a Neotropical Altitudinal Gradient: Implications for Altitudinal Corridors and Reserve Design."
- Jackson, P.C., Goldstein, G. Meinzer, F.C. and Cavelier, J. "Recycled CO₂ in a Lowland Tropical Forest."
- Zotz, G., Patiño, S., Tyree, M.T., Cochard, H. and Herre, E.A. "Hydraulic Architecture of Tropical Hemiepiphytes."
- Kursar, T.A., Tobin, M.F., Cochard H. and Lopez, O.R. "Responses to Drought of Understory Plants in a Moist Lowland Rainforest."
- Devall, M.S., Parresol, B.R. and Le, K. "Dendroecological Analysis of Laurel (*Cordia alliodora*) and other Species from a Lowland Moist Tropical Forest in Panama."
- Schupp, E.W. "Pollen and Resource Limitation of Reproduction in the Abundant Tropical Tree *Faramea occidentalis*."

- Dalling, J.W., Swaine, M.D. and Garwood, N.C. "Soil Seed Bank Dynamics of Pioneer Tree Species on BCI, Panama."
- Mulkey, S. and Wright, S.J. "Demography and Physiology of Three Shade-Adapted Tropical Shrub."
- Harms, K.E. and Dalling, J.W. "Effects of Endosperm Removal and Depth of Burial on Germination Seedling Size, and Resprouting Ability of Large-Seeded Rain Forest Trees."
- Stacy, E.A. Hamrick, James L. and Nason, J.D. "An Analysis of Mating System and Long Distance Pollen Flow in Four Neotropical Tree Species."
- Andrade, J.L., Bermejo, P. and Nobel, P.S. "Habitat Preference and Establishment of an Epiphytic Cactus in a Lowland Tropical Forest."
- Coley, P.D. and Kursar, T.A. "Anti-Herbivore Defenses in Fast and Slow-Expanding Young Leaves of Tropical Species."
- Hall, P. "The Reliability of Small Plot Sampling in Tropical Forests."
- Asquith, N.M., Wright, W.J. and Clauss, M.J. "Indirect Effects of Forest Fragmentation: Seed Predation and Dispersal by Mammals in Central Panama."
- Wright, S.J. and Mulkey, S.S. "Leaf Number Seasonality in a Tropical Dry Forest."
- Guariguata, M. "Interspecific Patterns of Vegetative Recovery in Experimentally Damaged Tree Saplings in Lowland Panama."
- Kitajima, K. "Functional Basis of Seedling Survival in Shade."

NEW STRI PUBLICATIONS

- Adler, Gregory H. and Dudley, Robert. 1994. "Butterfly biogeography and Endemism on Tropical Pacific Islands." *Biological Journal of the Linnean Society* 51: 151-162.
- Rodríguez, Viterbo. 1993. "Mating Behavior in *Charidotella* sp. Nr. *Sexpunctata* (Coleoptera: Chrysomelidae: Cassidinae)." *The Coleopterists Bulletin* 47(1): 37-38.
- Rodríguez, Viterbo. 1994. "Sexual Behavior in *Omaspides convexicollis* Spaeth and *O. bistrinata* Boheman (Coleoptera: Chrysomelidae: Cassidinae), with Notes on Maternal Care of Eggs and Young." *The Coleopterists Bulletin* 48(2): 140-144.

MISCELLANEOUS

Looking for a Summer Job

Yvette Wilde, a college junior, is looking for a summer job in the field that will help her gain experience in any area of biology. She loves birds and plants and will be available 15-20 hours a week from June to mid-August. Fluent in Spanish has driver's license, and NAUI certificate. Interested please call 52-2378/2939.

"Entre Mujeres"

La Asociación de ex-becarios Fullbright está auspiciando la obra de teatro "Entre Mujeres" el sábado 25 de junio, 8pm, en el Teatro La Cúpula. Costo \$8. El dinero recaudado se usará para fines benéficos. Para mayor información, favor de ponerse en contacto con Nélica Gómez.

Se Necesitan

Envases de plástico, de soda de dos litros. Favor de llamar a Nelida Gómez, Tupper Center, ext. 360.

NEW STRI BOOKLIST

- Advances data analysis with SYSTAT / KN Kirby. QA276.5.K56 1993X STRI.
- Ancient DNA: recovery and analysis of genetic material from paleontological, archaeological, museum, medical, and forensic specimens / Bernd Herrmann & Susanne Hummel, eds. QP620.A53 1994X STRI.
- Applied demography for biologists with special emphasis on insects / JR Carey. QH352.C36 1993X STRI.
- Biogeography and ecology of the rain forests of eastern Africa / JC Lovett & SK Wasser, eds. QH195.A23B56 1993X STRI.
- The Correspondence of Charles Darwin, V.8: 1860. QH31.D2A33 1985X STRI.
- Fossils as information: new recording and stratigraphic correlation techniques / NF Hughes. QE721.H84 1989X STRI.
- The Logic of biochemical sequencing / DS Blackman. QP661.B53 1994X STRI.
- Mariposas mexicanas / Roberto de la Maza Ramírez. QL553.M4M39 1987X STRI.
- Proceedings of the 1993 International Oil Spill Conference (Prevention, preparedness, response). TD427.P4I61 1993 STRI.
- Quaternary geology and geomorphology of South America / C. Clapperton. QE696.C59 1993X STRI.
- Rapid propagation of fast-growing woody species / edited by FWG Baker. SB119.R37 1992X STRI.
- Raptor biomedicine / PT Redig et al., eds. SF194.5.R36 1993X STRI.
- Species, species concepts, and primate evolution / edited WH Kimbel & LB Martin. QL737.P9S69 1993X STRI.