

# STRI newsletter

January 28, 1993

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 5

## TUPPER CENTER SEMINARS

Tuesday, Feb 2, noon seminar by Bert Hölldobler, University of Würzburg.

### *Communication in Ants*

Bert Hölldobler is a professor of Zoology at the University of Würzburg. Previously, he was professor at Harvard University and is one of the world's experts on the biology of ants. Professor Hölldobler co-authored with Edward Wilson the Pulitzer Prize Winning Book *The Ants*, Harvard University Press 1990.

## BAMBI

On Thursday, Feb 4, Bambi speaker will be Wolfram Beyschlag, University of Würzburg.

### *Canopy photosynthesis models —a valuable tool in ecological research—*

For transportation arrangements, please call BCI.

## PEOPLE

### Arrivals

- Gregory Hoch, Wabash College, Jan 21-Jul 20, to assist Gregory Adler on the tropical rodent project on islands in Gatun Lake.
- Members of the Interamerican Development Bank, Nelson Avila (economist), Sergio Blanco (planning director) and Tomas Rodriguez (program expert), visited BCI on Jan 26, and were hosted by George Angehr.
- Wolfram Beyschlag, Bert Hölldobler, Wirth Rainer University of Würzburg, Germany, Jan 31-Feb 6, to investigate possible sites for a project.
- Sean O'Brien, University of Virginia, Jan 31-Mar 29, to work with Joe Wright in modeling tropical forest dynamic in the Hubbell-Foster Plot, at BCI.
- Ernst Mayr, Harvard University, Feb 1-28, to visit STRI and to consult with colleagues at Gamboa.
- Ernest Williams, Harvard University, Feb 1-Mar, to visit STRI and to consult with colleagues at Gamboa.



Over one hundred members of the World Presidents' Organization (WPO) visited BCI on Jan 26, as part of their Conference of the Americas. Sixteen STRI guides took the visitors on a guided tour through the forest. Thanks to all who participated as guides or with the logistical arrangements that made this visit possible ••• Más de cien miembros de la Organización de Presidentes del Mundo (WPO) visitaron Barro Colorado el 26 de enero como parte de su Conferencia de las Américas. Dieciséis guías del STRI llevaron a los visitantes a una gira a través del bosque. Agradecemos a todos los que participaron como guías o con los arreglos de logística, que hicieron posible esta visita.

- Lisa and Daniel Petit, Smithsonian Migratory Bird Center, Washington, D.C., Feb 1-10, to continue their research of the impacts of land use on neotropical migratory birds wintering in Panama, at Gamboa.
- Japan Television Workshop, Feb 2-25, to film various STRI researchers at BCI and Gamboa for TV series.
- Cheryl Morrison, Florida State University, Feb 4-May 4, to study the morphological, molecular and reproductive differentiation among geminate species of snapping shrimps separated by the Isthmus of Panama, with Nancy Knowlton, at Naos and San Blas.

### Departures

- Alan Smith, Jan 30-Feb 12, to Princeton N.J., and Washington D.C. on official business.
- Donald Windsor, Jan 24-Feb 4, to Costa Rica to participate in the OTS Course.

Last chance for changes in the STRI Directory. Contact Nilce de Cerezo at the Office of Education ASAP. *Ultima oportunidad para cambios en el Directorio de STRI. Comuníquese con Nilce de Cerezo en la Oficina de Educación.*

## THINGS YOU SHOULD KNOW

### February Calendar

- Feb 1 ■ Deadline for proposals to SI Educational Outreach Program.
- Feb 9 ■ Scientific Staff Meeting 1:30 p.m.
- Feb 11 ■ Visit to Tupper Center by SI Associates.
- Feb 15 ■ President's Day at U.S. and a STRI Holiday. Deadline for submitting applications STRI Short term & Latin American Fellowships and Internships.
- Feb 23 ■ Carnival Tuesday, Liberal leave for STRI.
- Feb 24 ■ Ash Wednesday, Liberal leave for STRI.
- Feb 25 ■ Review Meeting for SI Fellowships in Tropical Biology.

### At Tupper Center

- Mon, Feb 1 ■ Seminario Taller "Wargandi: Alternativas de Conservación y Desarrollo", DOBOYALA, 8am-4:30pm, Auditorium.
- Tue, Feb 2 ■ Seminar by Bert Hölldobler, 12 noon, Auditorium.

### Reminder to Scientific Staff

Please remember to send a copy of all of your funding proposals to the Director's Office.

## ANNOUNCEMENTS

### Grant Awarded

Richard Cooke received a grant from the National Geographic Society for 2 years to support his study: *Archaeological Work at Cerro Juan Diaz Site in Los Santos*, in collaboration with the Panama's Institute of Culture (INAC).

### From Human Resources Office

#### *De la Oficina de Recursos Humanos*

Marissa Batista was selected as the new Naos secretary-receptionist, effective Feb 21, 1993. Marissa is currently studying business (finance) at the Universidad Santa María La Antigua. For two years she attended the University of Delaware where she studied marketing and English as a second language. She has previous experience as bilingual secretary at the Banco Alemán-Panameño and Deloitte Haskins & Sells and as an executive secretary at Covenant House Panama and Balboa Finance & Trading Corp. We wish Marissa all the best in her new position at Naos and welcome her to the STRI family ••• *Marissa Batista será la nueva secretariarecepcionista de Naos a partir del 21 de febrero de 1993. Marissa estudia finanzas en la Universidad de Santa María La Antigua. Asistió a la Universidad de Delaware durante dos años donde tomó cursos de mercadeo y de inglés como segundo idioma. Marissa tiene experiencia como*

*secretaria bilingüe en el Banco Alemán-Panameño, y en Deloitte Haskins & Sells. Trabajó en Covenant House Panama como secretaria ejecutiva y en Balboa Finance & Trading Corp. Le deseamos muchos éxitos a Marissa en su nuevo trabajo en Naos y le damos la más calurosa bienvenida a la familia de STRI.*

Ricardo L. Racines is a new STRI game warden, and will start his new position on Feb 21, 1993. He has a degree in Agronomy from the School of Agricultural Sciences at the University of Sarajevo, Yugoslavia and has taken courses in environmental protection and security, CPR, computers, use of fire arms and wildlands protection. He can operate boats, has basic knowledge of outboard motors and speaks English, Croatian, Serbian and Spanish. Ricardo worked for Melo and Co. in the sales and administration departments, and was a STRI US Forest Intern working with Gregory Gilbert and Manuel Guariguata. We wish him all the best in his new position ••• *Ricardo L. Racines es un nuevo guardabosques de STRI que iniciará sus labores el 21 de febrero de 1993. Tiene un título de ingeniero agrónomo de la Facultad de Ciencias Agropecuarias de la Universidad de Sarajevo, Yugoslavia, y ha tomado cursos de protección ambiental, protección y seguridad civil, primeros auxilios, auto-dominio y defensa personal, uso de computadoras, uso de armas de fuego y protección de áreas silvestres. Maneja botes y tiene conocimientos básicos en motores fuera de borda. Habla inglés, croata, serbio y español. Trabajó en Melo y Cia. en los departamentos ventas y administración, fue becario en STRI y ha trabajado como asistente de campo de Gregory Gilbert y Manuel Guariguata. Le deseamos muchos éxitos a Ricardo.*

### Position Available at STRI

Needed a bilingual person to deal with the public at the STRI Mini Bookstore. **Requirements:** knowledge of accounting and sales, and preferably, experienced with computers and dealing with the people. Temporary position until Sep 30, 1993. Full-time. Schedule: 8:30 to 11am, 30 mins. for lunch and from 11:30am to 5pm. **Salary:** \$14,603/year (IS-3/1). Send CV with two recent references to: "Mini Bookstore", Office of Human Resources, STRI, Tivoli Building, Ancon, before Feb 15 ••• *Se necesita persona bilingüe para atender el Mini Bookstore. Requisitos: Conocimientos de contabilidad y ventas; preferiblemente con experiencia en manejo de computadoras y trato con el público. Trabajo temporal hasta el 30 de septiembre de 1993. Tiempo completo de 8:30 a 11:00 am, 30 mins. de almuerzo y de 11:30am a 5pm. Salario: \$14,603 al año (IS-3/1). Enviar curriculum vitae con dos referencias recientes a: "Mini Bookstore", Oficina de Recursos Humanos, STRI, Edificio Tivoli, Ancon, antes del 15 de febrero de 1993.*

Our sincere condolences to Rosa Zambrano for the recent lost of her mother ••• *Nuestro más sentido pésame a Rosa Zambrano por la reciente muerte de su madre.*

**FROM THE DIRECTOR • DEL DIRECTOR**

After 12 years on the STRI scientific staff, Gilberto Ocaña has decided to retire effective this month. We are fortunate that Dr. Ocaña will continue his research in agroforestry at Las Pavas affiliated to STRI.

Before coming to STRI, Dr. Ocaña was Dean of Agronomy and full professor of plant pathology at the University of Panama. He joined our staff in May 1980 as Superintendent of the Barro Colorado Nature Monument with supervisory responsibility for the game wardens. His efforts were instrumental in obtaining the agreement with Panama's Forestry Police for joint patrols of the BCNM.

In April 1982 he assumed the title of Conservation Resources Manager and joined the STRI team that proposed the project "Alternatives to Destruction," funded by the W. Alton Jones Foundation. Dr. Ocaña's research dealt with the restoration of degraded lands at Las Pavas, in the buffer zone of the Barro Colorado Nature Monument. His studies initiated in 1984 aimed to use an integrated forestry/fodder/crop and livestock system to restore fertility and ground cover, prevent erosion and provide cash income for farm families. As part of this project, Dr. Ocaña was responsible for the successful introduction of *Acacia mangium* to Panama, where it is now used widely to restore lands degraded by cattle raising.

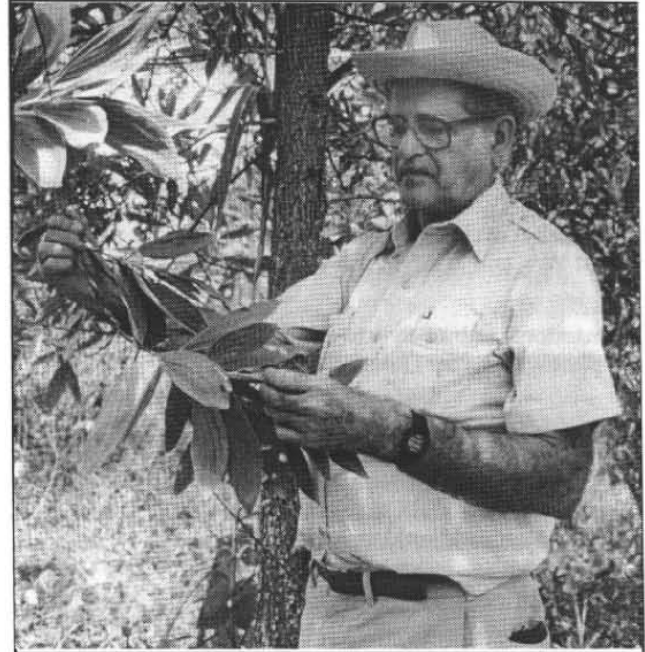
We look forward to Gilberto continuing his valuable contribution to STRI agroforestry efforts in the future.

•••

Después de 12 años como miembro del personal científico de STRI, Gilberto Ocaña ha decidido acogerse a la jubilación este mes. Afortunadamente continuará sus investigación agroforestales en Las Pavas afiliado al Smithsonian.

Antes de venir a STRI, el Dr. Ocaña fue Decano de la Facultad de Agronomía y profesor titular de fitopatología en la Universidad de Panamá. Se unió a nuestro personal científico en mayo de 1980, ocupando la posición de Superintendente del Monumento Natural de Barro Colorado con responsabilidad de supervisar a los guardabosques. Gracias a sus esfuerzos se logró obtener el acuerdo con la Policía Forestal de Panamá para el patrullaje conjunto del Monumento Natural de Barro Colorado.

En abril de 1982 asumió el título de Administrador de Conservación de Recursos Naturales y se unió al equipo de STRI que propuso el proyecto "Alternativas a la Destrucción", subvencionado por la Fundación W. Alton Jones. La investigación del Dr. Ocaña trataba de restablecer tierras degradadas en Las Pavas, en la zona de amortiguamiento del Monumento Natural de Barro Colorado. Sus investigaciones estaban encaminadas a utilizar un



Dr. Gilberto Ocaña

(Foto: M.A. Guerra)

método integrado agrosilvopastoril para restaurar suelos degradados y proveer una fuente de ingreso a las familias campesinas. Como parte de su proyecto, el Dr. Ocaña introdujo la *Acacia mangium* a Panamá, donde ahora se utiliza ampliamente para restaurar áreas degradadas por la ganadería.

Esperamos que Gilberto continúe su valiosa contribución a los esfuerzos agroforestales del STRI en el futuro.

**BIBLIOTECA EN LAS PAVAS****Donaciones para Biblioteca en Las Pavas**

Rodolfo Gallardo, del Proyecto Agroforestal en la comunidad de Las Pavas, está organizando una pequeña biblioteca para uso de la comunidad. Se agradece la colaboración en libros, cuentos y revistas en español, nuevos o usados. Esta biblioteca será utilizada principalmente por los niños de la Escuela Primaria, pero también por los adultos. Pueden enviar los materiales a Jorge Ventocilla en la Oficina de Educación (Centro Tupper).

Please remember that starting Monday Feb 1, only Tupper Center employees will be allowed to park their vehicles in the back parking lot of the Center ••• Se recuerda que a partir del lunes 1 de febrero, solamente los empleados del Centro Tupper podrán estacionarse en los estacionamientos del Centro.

**STRI NEW BOOKLIST**

- The Archaeology of William Henry Holmes / David J. Meltzer and Robert C. Dunnell, editors.  
E98.P8H63 1992X STRI.
- Bignoniaceae / by Alwyn H. Gentry.  
QK495.B62G46X STRI.
- Biodiversity of honey bees in Thailand / compiled by Siriwat Wongsiri, Thomas E. Rinderer and H. Allen Sylvester.  
QL568.A6B615 1991 STRI.
- Chamaedorea palms: the species and their cultivation / text and photographs by Donald R. Hodel.  
QK495.P17H68 1992 STRI.
- Classification, evolution, and the nature of biology / Alec L. Panchen.  
Ref QH83.P35 1992X STRI.
- Climate change: the IPCC scientific assessment / edited by J.T. Houghton, G.J. Jenkins, and J.J. Ephraums.  
QC981.8.C5I57 1990X STRI.
- DNA replication: the regulatory mechanisms / P. Hughes, E. Fanning, M. Kohiyama (eds.).  
QH462.D8D62 1992 STRI.
- Deep-sea biology: a natural history of organisms at the deep-sea floor / John D. Gage, Paul A. Tyler.  
QH91.8.B4G34 1991X STRI.
- Diseases and disorders of ornamental palms / A.R. Chase and T.K. Broschat, editors.  
SB608.P22D611 1991 STRI.
- Egg incubation: its effects on embryonic development in birds and reptiles / edited by D. Charles Deeming and Mark W.J. Ferguson.  
QL959.E29 1991 STRI.
- Espanjas del Caribe colombiano / por Sven Zea.  
QL372.3.C7Z43 1987X STRI.
- Evaluation and assessment for conservation: ecological guidelines for determining priorities for nature conservation / Ian F. Spellerberg.  
QH75.S74 1992 STRI.
- Evolution of life: fossils, molecules, and culture / S. Osawa, T. Honjo, (eds.).  
QH325.E964 1991X STRI.
- IUCN directory of protected areas in Oceania / compiled by James R. Paine ; in collaboration with the IUCN Commission on National Parks and Protected Areas and the South Pacific Regional Environment Programme.  
Ref QH77.O3P14 1991 STRI.
- International literary market place.  
Ref Z291.5.I614 STRI.
- The Leader-manager: guidelines for action / William D. Hitt.  
QH57.7.H57 1988X STRI.
- Marine animals of Thailand / Surin Majchacheep.  
Ref QL317.S96 1989 STRI.
- Marine ecology of the Arabian region: patterns and processes in extreme tropical environments / Charles Sheppard, Andrew Price, Callum Roberts.  
QH541.5.S3S54 1992 STRI.
- Marine interstitial ciliates: an illustrated key / Philip G. Carey.  
QL368.A22C27 1992 STRI.
- Methods in molecular biology, v.10. Immunochemical protocols / edited by John M. Walker.  
QH506.M45 1984X v.10 STRI.
- Mosses of the Gulf South: from the Rio Grande to the Apalachicola / William Dean Reese.  
QK541.5.G84R43 1984X STRI.
- Natural resources base development / N.S. Rathore.  
QH541.5.A74R23 1992 STRI.
- Nation-states and Indians in Latin America / edited by Greg Urban and Joel Sherzer.  
E59.E75N38 1991X STRI.
- Nitrogen fixing trees: a training guide.  
SD409.N73 1987 STRI.
- Oxford surveys in evolutionary biology, v.8, 1992. edited by Douglas Futuyma and Janis Antonovics.  
QH359.O98 STRI.
- Photobiology: the science and its applications / edited by Emanuel Riklis.  
QH515.I57 1988X STRI.
- Plants and microclimate: a quantitative approach to environmental plant physiology / Hamlyn G. Jones.  
QK754.5.J66 1992X STRI.
- Playback and studies of animal communication / edited by Peter K. McGregor.  
QL776.P57 1992X STRI.
- Recombinant DNA laboratory manual / Judith W. Zyskind and Sanford I. Bernstein.  
QH442.Z97 1992X STRI.
- Reptiles & amphibians of Australia / by Harold G. Cogger.  
Ref QL663.A1C63 1992X STRI.
- Science and the management of protected areas: proceedings of an international conference, held at Acadia University, Nova Scotia, Canada, 14-19 May 1991 / organized by the Science and Protected Areas Association; editors, J.H. Martin Williams ... [et al.].  
QH75.A1S42 1992X STRI.
- Sensory ecology: how organisms acquire and respond to information / David B. Dusenbery.  
QP431.D87 1992X STRI.
- Advances in Genetics, v.30, 1992.

reconcile project goals, schedules, school system and publisher. To begin on or about May 1, 1993. Salary range \$40,298 to \$52,385. Candidates should telephone or submit a resume by April 15 to: Betty Sharpe, Deputy Assistant for Public Programs, National Museum of American History, Smithsonian Institution, Tel. Number (202) 357-2420.

#### Secretaria para el Centro Tupper

Posición para trabajar en las oficinas administrativas del Centro Tupper. La persona seleccionada deberá realizar trabajos generales de oficina, que incluye archivos, manejo de procesadora de palabras y trato con el público. Deberá ser bilingüe (español e inglés). Además, deberá asistir a la Oficina de Educación en la confección del boletín semanal del STRI. Trabajo temporal a tiempo completo hasta el 30 de septiembre de 1993. Salario: \$14,603 al año (GS-3). Enviar curriculum vitae con referencias recientes a: "Secretaria", Oficina de Recursos Humanos, STRI, Edificio Tivoli, Ancón. Recibiremos solicitudes hasta el 16 de abril.

#### Last Minute News

The STRI Library will close on Saturday April 10 to allow its personnel a long week-end.

#### Líder de Proyecto en CATIE

El Programa Manejo Integrado de Recursos Naturales y el Proyecto Silvicultura de Bosques Naturales del CATIE en Costa Rica, ofrecen la posición de Líder de Proyecto. Deberá coordinar el proyecto con los donantes, supervisar las investigaciones, el personal científico, las publicaciones y actividades de divulgación, los eventos de capacitación, y participar como docente y consejero. Requisitos: Doctorado en ciencias forestales o maestría con amplia experiencia. Experiencia en proyectos con donantes internacionales, en investigación forestal, publicaciones, manejo de base de datos, y dominio del español e inglés. Interesados enviar curriculum vitae antes del 30 de abril a la Unidad de Recursos Humanos, 7170 CATIE, Turrialba, Costa Rica. Fax (506) 56-1533.

## Resultado Final Liga de Verano de Volleyball 1993:

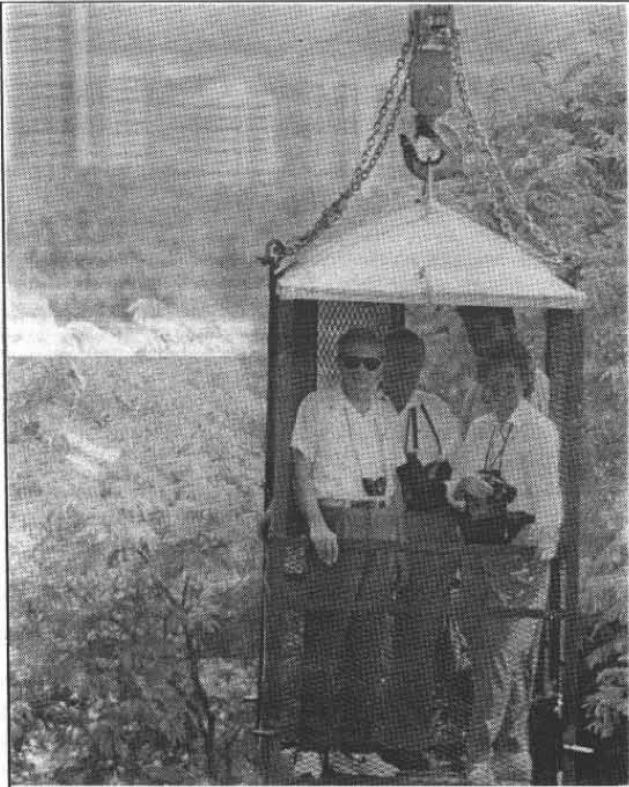
Equipo	Partidos Jugados	Partidos Ganados	Partidos Perdidos	Total de Puntos	Final
Naos	10	10	0	20	I
BCI	10	7	3	14	II
ANCON	10	7	3	14	III
Tupper	10	3	7	6	IV
Pastor House	10	2	8	4	V
Tivoli	10	1	9	2	VI

### Campeón: Naos

Sub-Campeón: BCI  
3er. Lugar: ANCON  
4to. Lugar: Tupper  
5to. Lugar: Pastor House  
6to. Lugar: Tivoli

Nuestras felicitaciones al equipo de Naos, que obtuvo por segundo año consecutivo el campeonato de la liga interna de volleyball sin derrotas en el torneo. Los integrantes del equipo campeón en 1993 son:

Axel Calderon	Argelis Guevara	Gabriel Jacome	Carlos Machado	Reynaldo Tapia
Alcibiades Cedeño	Carlos Guevara	Javier Jara	Luis A. Solorzano	Conrado Tapia
Plinio Góndola	Ilean Isaza	Gwen Keller	Marco Soriano	



Marrion and Lita Harrison (foreground), members of the Smithsonian National Board and Arthur Gardner, SI Office of Development, visited the Canopy Access System project at the Metropolitan Nature Park accompanied by Joe Wright on Thursday, Apr 1. (Photo: A. Montaner)

## THINGS TO KNOW

### New Agreement ••• Nuevo Acuerdo

STRI's Center for Tropical Forest Science, (CTFS), and the Metropolitan Natural Park's board of directors signed a 5-year renewable agreement on March 19, for the development of a project to study native species of plants with commercial and ecological value possibilities. The Park will provide the CTFS with 1,100 m<sup>2</sup> plot to grow and study the environmental requirements of the plants to succeed on deforested areas in the humid tropics ••• *El Centro de Ciencias Tropicales del STRI y el Patronato del Parque Natural Metropolitano, firmaron un acuerdo de 5 años prorrogables el 19 de marzo, para el desarrollo de un proyecto de estudio de plantas nativas, con potencialidades comerciales y ecológicas. El parque se dará al Centro un lote de 1,100 m<sup>2</sup>, para sembrar plantones y estudiar sus requisitos ambientales para establecerse en áreas deforestadas de los trópicos húmedos.*

### At Tupper Center

- Mon, Apr 12 ■ Directors, scientific council, scientific support, and administrative staff Meeting, Large Meeting Room, 9-10:30 am.
- Tue, Apr 13 ■ Seminar by C.V.S. Gunatilleke from the University of Peradeniya, Sri Lanka, at the Auditorium, 12 noon.
- Scientific Staff Meeting, Large Meeting Room, 1:30-3:30 pm.
- Wed, Apr 14 ■ Meeting on the *Curso de Metodología de Campo*, Large Meeting Room, 3-5pm.

### Reminder

Proposals requesting support from the Atherton Seidell Endowment Fund should be submitted to the Assistant Secretary for the Sciences by April 15, for committee review in May.

## ANNOUNCEMENTS

### New Honor

The Museum of Paleontology at the University of Michigan has invited Paul Colinvaux to give the 39th Ermine Cowles Case Memorial Lecture this year. This lecture is sponsored by the Museum and the Department of Geological Sciences, and is annually given by a distinguished wide-known paleontologist and evolutionary biologist. The main objective of this lecture for the University of Michigan is to have leading scientists present general results of their research on important problems in the field. The invitation mentions that Dr. Colinvaux's work on quaternary floral and faunal evolution in Amazonia has attracted considerable attention within this area of research.

### New Natural Reserve in Panama

#### *Nueva Reserva Natural en Panamá*

On Tuesday, April 6, the new natural reserve "Punta Patiño" was inaugurated in the Darien province. It covers 26,000 has. of tropical forest including 35 kilometers of coastline at San Miguel Bay. The new reserve, purchased with private funding, will be opened to local ecological groups and the scientific community for biological studies. For more information, please contact the National Association for the Conservation of Nature (ANCON) ••• *El martes 6 de abril fue inaugurado la nueva Reserva Natural Punta Patiño en Darién. Con una extensión de 26,000 hectáreas de bosques tropicales, incluye 35 kilómetros de la costa del Golfo de San Miguel. La nueva reserva, obtenida con fondos privados, será puesta a disposición de la comunidad científica y grupos ecologistas del país, para estudios biológicos. Para mayor información, favor comunicarse con la Asociación Nacional para la Conservación de la Naturaleza (ANCON).*

### Salvar La Tierra Jamboree Juventud '93

La administración del Jamboree Juventud '93 ha invitado a STRI a participar en el encuentro "Jamboree Juventud" del 15 al 18 de abril, con conferencias y materiales de exhibición. Los temas a tratar en "Salvar la Tierra" son la exposición científica de la historia de las causas y efectos de la acción desordenada del hombre sobre el medio ambiente, el estado actual del planeta y las acciones que deberán emprenderse a corto y mediano plazo para devolver la naturaleza a su estado normal. El evento está orientado hacia una audiencia de adolescentes entre 14 y 19 años de edad.

#### Reward ••• *Recompensa*

Since last week, the Visitor's Services Offices is missing a Swingline 747 model stapler, beige, almost new. If found, please contact Isis Ivancic at the Tupper Center ••• *Desde la semana pasada la Oficina de Visitantes ha perdido una engrapadora marca Swingline modelo 747, color crema, casi nueva y de gran valor para la oficina. Si la encuentra, favor de comunicarse con Isis Ivancic en el Centro Tupper.*

#### Wanted ••• *Se Necesita*

Tara McCartney and Douglas Robinson from the University of Illinois will be coming to STRI in early May. They are interested in purchasing a vehicle, preferably a truck. If you have one for sale, please call María Morello, Tupper Center ••• *Tara McCartney y Douglas Robinson de la Universidad de Illinois llegarán a STRI a principios de mayo. Están interesados en comprar un carro de segunda mano, preferiblemente un "truck". Si tiene uno en venta, favor de comunicarse con María Morello, Centro Tupper.*

#### Unaddressed Box ••• *Caja sin Nombre*

An small box from Yale Health Plan, Contact Lens Dept. in New Haven, CT was sent to STRI without a specific addressee. The owner should contact Mercedes Arroyo at the Procurement Office, Tupper Center. ••• *Una caja pequeña con el remitente de Yale Health Plan, Contact Lens Dept. en New Haven, CT, fue recibida en STRI sin nombre específico. El/la dueña de la caja debe comunicarse Mercedes Arroyo, en la Oficina de Compras en el Centro Tupper.*



*Smithsonian Undersecretary Constance Newman and Thomas Lovejoy, SI assistant secretary for external affairs, met with President Guillermo Endara Gallimany during the ceremony held at the Presidential Palace to present the Vasco Núñez de Balboa Great Cross to Secretary Adams •• Constance Newman, Sub-Secretaria del Smithsonian y Thomas Lovejoy, secretario asistente para asuntos externos de SI, se reunieron con el presidente panameño, Lic. Guillermo Endara Gallimany durante la ceremonia llevada a cabo en el Palacio de las Garzas para condecorar al Secretario Adams con la Gran Cruz de Vasco Núñez de Balboa.*

(Foto: A. Montaner)

### POSITIONS AVAILABLE

The National Museum of American History at SI is seeking a director for a Science in American Life Curriculum Project at the Department of Public Programs. The purpose of this position is to direct the development of innovative interdisciplinary science education curriculum materials for middle schools at the United States. The materials are centered around Science in American Life, a major exhibition opening in April 1994 at the Museum. The exhibition focuses on the evolving relationship between science and society in the last 125 years through a series of topical case studies. The director's duties will be: Provide creative leadership for projects ensuring that materials meet the Smithsonian standards; oversee development and production of videodisc, kits and related written and computer materials; evaluate and test validity and ease of use of curriculum materials; maintain high visibility of project, communicating with science and history education professionals, the museum community, and project funders; to serve as national spokesperson for the project, and supervise four staff and contractors. The position requires advance up-to-date knowledge of science education and methods of teaching and experience in curriculum development. Requires experience in project direction with tight schedule and define budget. Requires diplomatic skills to