TUPPER CENTER SEMINARS
Tuesday, July 19, noon seminar speaker will be Erik D. Lindquist, Short-term fellow from the Ohio State University. 
Morphology, Behavior and Ecology of the Panamanian Golden Frog (Atelopus spp.).

Abstract
Field studies were conducted on Atelopus chiriquiensis varius, and Atelopus zeteki, testing the roles of acoustic and visual communication in aggression, courtship, and interspecific defense behaviors. This genus is intriguing for studies in acoustic and visual communication because in some species (some South American species) the tympanic middle ear is present and in others (the Panamanian species) it is altogether absent ("earless"). This permits a direct comparison between the behavior, physiology, morphology, and ecology of the two species types in relation to rearing capabilities. A series of auditory play-back experiments were performed in the field with A. chiriquiensis and A. zeteki in order to determine if phonotaxis is used. These studies complement laboratory work on physiological and behavioral aspects of sound localization in eared and earless Atelopus. In addition to the studies on communication, questions regarding status and population decline of Atelopus zeteki, the endangered Panamanian golden frog, were investigated for future conservation projects.

BEHAVIOR DISCUSSION
Tuesday, July 19, the Behavior Discussion Group will meet at the Tupper Center Large Meeting Room, 4:30 p.m. Mike Ryan, University of Texas, will present a 20 minute talk followed by an informal discussion. All welcomed.

Female Preferences for Long Dead Males

A group of students and professors from the University of Costa Rica's Department of Agronomy visited the Tupper Center and were briefed about on-going programs, on Wed, Jul 13. They were accompanied by Luis Carlos Salazar, Dean of Agronomy of the University of Panama and Arturo Cerezo, department professor.

USE YOUR STRI I.D.
Phillip Elliott, Eastern Connecticut State University, Jul 20-25, to investigate possibilities for research on Cacicus cela at STRI.

Bettina Engelbrecht, University of Wurzburg, Jul 21-20 Aug, to study the specialization to light regime in Piper species: consequences for distribution, population dynamics and co-existence, on BCI.

Lynette Norr, University of Illinois, Jul 21-28, to consult with Richard Cooke on a joint project: "Isotopic characterization of estuarine food fish taxa in the Bay of Parita, Central Panama".

Departures
- Richard Condit, Jul 18-5 Sep, to Knoxville, TN, to attend meetings of the Ecological Association of America, and take some vacation time in Michigan and California.
- Elena Lombardo, Jul 7-26, for the opening of the exhibit "Parting the Green Curtain" under the auspices of the Museo de Historia Natural La Paz, Bolivia, and to meet with officials of various institutions.
- Steve Paton, Jul 23-30, to Puerto Rico, to visit facilities at U.S. Geological Survey and consult with colleagues.

Acknowledgment
The Gorgas Army Community Hospital extended their appreciation to Annette Aiello, for her assistance in developing the booklet Medical Services: Plants and Animals of Medical Importance in Panama. "Dr. Aiello's editorial contributions and specialized knowledge have resulted in a publication far superior than originally expected" expressed Colonel Michael A. McConnell, Commander of the U.S. Army Medical Department Activity, Panama.

THINGS YOU SHOULD KNOW
Guide to International Research and Exchanges
The Smithsonian's Office of International Relations (OIR) has recently completed an "Updated Guide to International Research and Exchanges" for the use by Smithsonian staff doing or planning to work abroad, or engaged in collaboration with colleagues from other countries. A copy of this volume which contains useful information for those of you travelling on official business is available for consultation at the STRI's Office of External Affairs and the Visitor Services Office. We hope that this publication will remind you to seek the advise and assistance of the Institution's OIR, and/or STRI's External Affairs and Visitor Office, which serve the Smithsonian in pursuit of its international agenda.

A Message from the STRI-DC Office
Mensaje de la Oficina de STRI en Washington
Traveling to Washington D.C. area? The STRI-DC office receives telephone messages, faxes, mail, etc. for people visiting the Washington area, but we often cannot deliver them because we are unaware of your travel plans. If you are in the Washington D.C. area on non-STRI business, please check with the D.C. office and leave a contact number or address. Also, when you plan to work out of the DC office, please call Barbara Casana (STRI-DC Secretary at (202)786-2817) well in advance for any assistance in arranging your schedule or other support you may need. This helps us to plan for extra space needs at our "cozy" offices. We look forward to seeing you here! *** ¿De viaje en el área de Washington D.C.? La oficina de STRI en Washington D.C. recibe mensajes telefónicos, faxes, correo, etc. para personas que estén en visita en el área, aunque no sabemos de sus planes de viaje. Si usted está en Washington en asuntos que no son de trabajo, avise a la oficina de STRI y déjé un número al cual lo podamos llamar o una dirección. También, si planea trabajar en la oficina de STRI en DC, llame a Barbara Casana (Secretaria de STRI-DC) al número (202) 786-2817 con suficiente antelación para poder arreglarle su itinerario u otro apoyo que necesite. Esto nos ayuda a planear también el espacio necesario en nuestras "apretaditas" oficinas. ¡Deseamos verlos a todos por acá!

At the Tupper Center
- Mon, Jul 18 - Insect Exhibit meeting, SMR, 2pm
- Tue, Jul 19 - Noon seminar by Erik D. Lindquist, Auditorium
- Wed, Jul 20 - Behavior Discussion Group, Large Meeting Room, 4:30pm

All week at the Exhibit Hall: Nuestros Bosques: Nuestra Herencia exhibition. For guided groups, please call the STRI Office of Education, tel. 27-6022.

At the Culebra Marine Reserve
- Tue, Jul 19 - Instituto Pedagógico
- Wed, Jul 20 - Centro Bilingüe Vista Alegre
- Thu, Jul 21 - Centro Educativo Socrático
- Fri, Jul 22 - Centro Infantil Generación 2000
- Sat, Jul 23 - Instituto Nacional
At Barro Colorado Island Station
Sat, Jul 16 Visitors from U.S., Spain and Panama and a group from ANCON.
Tue, Jul 19 Grupo Ecologista de Penonomé

ANNOUNCEMENTS

Curso de Windows para el Personal
En un esfuerzo por establecer un patrón sobre el uso de programas de computadoras en STRI, la Oficina de Administración de Medios de Información coordinó cursos intensivos de 8 horas del programa “Windows”, al cual asistieron miembros del personal científico, administrativo, de seguridad y otros interesados en tomar el curso. Un total de 40 personas aprovecharon la oportunidad. Próximamente, se estarán brindando otros cursos, entre ellos Wordperfect 6, Dbase y Lotus. Para tal propósito, se enviarán las notas correspondientes a cada departamento para que se anoten los interesados en los cursos.

STRI - EEC

On July 5, Humberto Jirón Soto, Chief of Mission of Panama to the European Economic Communities visited Barro Colorado Island with Loyda Jirón, by invitation of the Office of the Assistant Director for External Affairs. Ambassador Jirón was accompanied by Elena Lombardo, Assistant Director for External Affairs, Nélida Gómez, scientist, Oris Acevedo, BCI scientific coordinator and Richard Condit, Center for Tropical Forest Sciences Coordinator. Ambassador Jirón received a briefing on the research programs and history of BCI, walked into the forest, visited the CTFS laboratory and the Gigante Peninsula. This visit will be instrumental to Ambassador Jirón for his support of STRI’s proposals and programs that are presented to the EEC for funding. Recently, and with the support of Ambassador Jirón, Noris Salazar A. (STRI-University of Panama and proponent of the project for Panama) in collaboration with S. Robert Grandstein (Ecosystems/Brussels) and Stephen P. Churchill (N.Y. Botanical Gardens) were awarded an EEC grant for the project Bryophytes as Non-Woody Biodiversity Indicators: A Guide to the Tropical Central and South American Genera. The guide will be published in English and Spanish, followed by a two-week workshop to be held in Panama with key botanists, conservationists and environmental educators from Central and South America. ••• El 5 de julio, Humberto Jirón Soto, Jefe de la Misión de Panamá ante las Comunidades Europeas (CEE), visitó BCI en compañía de Loyda Jirón, por invitación de la Oficina de Asuntos Externos. Los acompañaron Elena G. de Lombardo, Directora Adjunta de Asuntos Externos, Nélida Gómez, investigadora, Oris Acevedo, coordinadora científica de BCI y Richard Condit, coordinador del Centro de Ciencias Forestales del Trópico (CTFS). Durante la visita, el Embajador Jirón y su acompañante recibieron información sobre los programas y la historia de BCI, recorrieron el sendero natural para visitantes, se les ofreció una explicación sobre los objetivos de CTFS y visitaron la Península de Gigante. Esta actividad permitió al Embajador Jirón familiarizarse con los programas de STRI en Panamá, facilitando de esta manera su labor de apoyo a las propuestas que se han presentado para la consideración de CEE. Recientemente, y con el apoyo de Jirón, Noris Salazar A. (STRI-Universidad de Panamá y proponente por Panamá) en colaboración con S. Robert Gradstein (Ecosystems/Brussels) y Stephen P. Churchill (Jardines Botánicos de Nueva York), obtuvieron la aprobación de fondos por parte de la CCE para el proyecto Briófitas, Indicadores No-Leñosos de Biodiversidad: Una Guía de los Géneros y Centro y Sur América Tropical. La guía será publicada en inglés y español, y posteriormente se llevará a cabo un seminario de dos semanas en Panamá con botánicos, conservacionistas y educadores en ciencias ambientales de Centro y Sur América.
Construction of laboratories, dormitories, pier and a special storage facility at BCI is scheduled to be completed in October. The photo shows the south wing of the laboratory building. (Photo: M.A. Guerré)

NEW AT STRI MINI-BOOKSTORE
- Keeping all the Pieces: Perspectives on Natural History and the Environment by Whit Gibbons, $20.25
- The High Frontier: Exploring the Tropical Rainforest Canopy by Mark W. Moffett. $27.95
- The Flowering Plants of the World by V.H. Heywood. $60
- Las Plantas con Flores, by V.H. Heywood. $65
- A Field Guide to the Families and Genera of Woody Plants of Northwest South America, by Alwyn H. Gentry. $36
- Useful Plants of Neotropical Origin by Heinz Brücher. $145
- The Plant-Book, by D.J. Mabberley. $48.50

Suggested reading: Ambiente y Desarrollo: Panamá ante el Desafío Global, by César Picón and Rodrigo Tarté. $12.00
• Don't forget to bring your Visa and Mastercard with you!
The new hours of the bookstore are from 9:30 am to 4:30 pm**

MISCELLANEOUS
Invitación De Nélida Gómez
La siguiente es La dirección de Nélida Gómez en Alemania. Nélida espera recibir correspondencia de sus compañeros de STRI, así como invita a todos a visitarla: Institut für Pharmazeutische Biologie der TU, Mendelshunstrasse 1, 38106, Braunschweig, Germany • Tel. 0049-531-391-5686 Fax 0049-531-391-8104 • E-Mail n.gomez@tu-bs.de

NEW STRI BOOKLIST
- Atlas of Mesozoic and Cenozoic coastlines / Alan G. Smith et al. G1046.CSS6 1994X STRI.
- The Moss flora of Mexico, pt.1: Sphagnales to Bryales; pt.2: Orthotrichales to Polytrichales / edited by Aaron J. Sharp et al. QK541.85.M91 1994 STRI.
- Traité de zoologie: anatomic, systématique, biologie. Tome II Infusoirs ciliés, Fasc.2, systématique / Pierre-P. Grassé. Ref QUS.T7X STRI.

Last Minute News
The Legacy proposals submittal guidelines for Fiscal Year 1995 arrived at STRI and are available at the Office of the Director and the Education Office. The deadline for submission is August 1, 1994. For FY95 the following areas are of particular interest: a) Natural Resources initiatives that include ecosystem management, protection and restoration; threatened and endangered species; neotropical migratory birds; coastal, marine, and aquatic systems; b) Cultural Resources initiatives associated with Native Americans; curation and collections managements of artifacts; properties eligible or potentially eligible for the National Register of Historic Places, especially those related to World War II; d) Integration of Natural and Cultural Resources; planning and data management; training and awareness.