

STRI newsletter

July 17, 1992

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 29

TUPPER CENTER SEMINARS

No noon seminars scheduled for Tuesday, July 21 or 28.

BCI BAMBI SEMINARS

Thu, Jul 23. Damond Kylo, University of Missouri.

Hyphal Interconnection Between Differentially Stressed Plants.

Wed, Jul 29. Douglas Emlen, Princeton University.

Evolution of Bimodal Horn Length Variation in a BCI Beetle.

Off-Islanders should contact Daniel Millán or Vielka Liao on BCI to reserve late-boat space.

PEOPLE

Arrivals

- Noreen Tuross, Conservation Analytical Lab, SI, Jul 20-Sep 11, to work with Eldredge Bermingham at the Molecular Biology Laboratory at Naos.
- Scott Robinson, University of Illinois, Jul 15-30, to teach a field course at Gamboa.
- Elizabeth Stockwell, University of Washington, Jul 20-Sep 20, to work on the ecological flexibility & flight characteristics of understory forest bats on BCI.
- Michael Ryan, Univ. of Texas, Jul 23-14, to work with Stanley Rand on frog projects at Gamboa.

Departures

- Klaus Winter, staff scientist, Jul 23-Aug 8, to Wurzburg, Germany, to participate in the 25th anniversary of the Botanical Institute.
- Amalia Herrera, laboratory technician, Jul 24-Aug 2, to Swansen, Wales, to attend the 9th International Bryozoology Association Conference.

Thank You

I would like to thank all of you for your condolences and support during the illness of my late husband. I am especially grateful to those who donated their annual leave and thus permitted me to stay with him. *Vielka Vergel.*



Fausto Bocanegra and Florentino Gómez, who worked on BCI for over 30 years and are now retired, cut the ribbon to inaugurate the new nature trail on Barro Colorado, on Wednesday, July 15. The nature trail was named "Fausto", in honor of Mr. Bocanegra who worked on the island for 38 years ••• Fausto Bocanegra y Florentino Gómez, quienes se jubilaron luego de trabajar en Barro Colorado por más de 30 años, cortan la cinta de inauguración del nuevo sendero natural en Barro Colorado el miércoles 15 de julio. El sendero lleva el nombre de "Fausto" en honor del Sr. Bocanegra, quien trabajó en la Isla for 38 años.

(Foto: M.A. Guerra)

Correction

Noris Salazar, STRI scientist, left to attend the 3rd Latin American Bryology Symposium.

THINGS YOU SHOULD KNOW

STRI - University of Panama Seminar Series *Serie de Seminarios de STRI y la Universidad de Panamá*

STRI and the University of Panama will initiate a joint seminar series this month in order to inform scientists of research in progress at both institutions. Seminars will be held every two months and will be given in Spanish. STRI seminars will be given at the University, and will alternate with University seminars at the Tupper Center Auditorium.

The first seminar in the series will be given by Dr. David Roubik on Thursday, July 30, at 5:30pm in the Sala Ricardo Miró, Biblioteca Simón Bolívar, University of Panamá. The title is:

El Dilema de las Abejas Africanizadas: ¿Qué Sabemos Después de Una Década de Investigación en la República de Panamá?

Transportation from Tupper will be provided. Contact Marissa Crespo at the Office of Education if you plan to attend.

STRI y la Universidad de Panamá iniciarán una serie de seminarios en conjunto este mes, con la intención de informar a los científicos sobre las investigaciones que se están llevando a cabo en ambas instituciones. Los seminarios de STRI se dictarán en la Universidad, y se alternarán con seminarios de la Universidad en el Auditorio del Centro Tupper. El Dr. David Roubik dictará la primera conferencia el jueves 30 de julio a las 5:30pm en la Sala Ricardo Miró, Biblioteca Simón Bolívar, Universidad de Panamá. El título de la charla es:

El Dilema de las Abejas Africanizadas: ¿Qué Sabemos Después de Una Década de Investigación en la República de Panamá?

Los interesados en asistir favor de llamar a Marissa Crespo, Oficina de Educación, para coordinar los arreglos de transporte.

- Interés en participar en trabajo de campo.
- Disponibilidad por 3 meses iniciales y posibilidad de extensión por 3 meses adicionales.
- La solicitud debe incluir 2 cartas de referencia y copia reciente de los créditos universitarios.

Fecha de inicio: 15 de agosto de 1992

Los interesados deben llenar solicitud en la Oficina de Educación del Instituto, Centro Tupper, Avenida Roosevelt, Tel. 27-4918.

For Sale ••• Se Vende

Beautiful Bamboo 3 piece living-room set with pastel floral design cushions. Almost new, bought less than a year ago. Price \$550.00. For information call Isis Ivancic at 23-2067 ••• *Hermoso juego de sala de Bamboo (3 piezas) con cojines de diseño floral color pastel. Casi nuevo, comprado hace menos de un año. Precio \$550.00. Para información llamar a Isis Ivancic al 23-2067.*

POSITION AVAILABLE

An Education and Information Specialist position is available in the Office of Education beginning September 1st. The incumbent will replace Argelis Roman who will take on a position as Training Coordinator with the Smithsonian Man and the Biosphere Program in Washington, D.C.

The expected candidate will be responsible for planning, coordinating and executing education and information programs related to STRI's mission. This position will also be responsible for the STRI weekly Newsletter.

Requirements: a university degree in biology, ecology, or related disciplines and experience in the development and implementation of education programs. The job requires an excellent command of English and Spanish; writing ability and communication skills. Applicants must have demonstrated word-processing and editing experience.

Salary is between \$17,600 and \$21,900, depending on qualifications and experience.

RESEARCH STATIONS

Visitors Guide to Darien

National Park by INRENARE

Darien National Park is located in eastern Panama, in the Darien Province; 90% of the park borders with Colombia. (Latitude 8°31' north, and 7°13' south; longitude 77° 10' east and 78° 26' west). The Park has 579,000 hectares, with elevations from 0 to 1,875 meters above sea level, the highest elevation being the Cerro

At Tupper Center

- Wed, Jul 22 ■ Amigos de la Biblioteca, 9-11 am, Small Meeting Room.
- Fri, Jul 24 ■ Agenda Centroamericana de Ambiente y Desarrollo (CCAD), 3-5 pm, Auditorium & Exhibit Hall.
- Baby Shower for Maria Lorena Ossa de Cabrera, 3-5 pm, Meeting Rooms.

ANNOUNCEMENTS

Oportunidad de Entrenamiento

El Instituto Smithsonian de Investigaciones Tropicales anuncia oportunidad de entrenamiento para dos asistentes de investigación en el área de las ciencias forestales.

Proyecto: Adaptabilidad de Especies Forestales Nativas con Valor Ecológico y Comercial a Suelos Degradados del Trópico Húmedo.

Requisitos:

- Haber completado carrera en ingeniería forestal, botánica o disciplinas afines.
- Interés y deseos de aprender acerca del tema del proyecto.

Tararcuna.

High peaks also include Cerro Pirre and Nique at approximately 1500 m above sea level, and Cerro Sapo, Jungurado, Jurado and Cocalito, all less than 1500 m above sea level. The Park protects the country's largest watershed, the one at the Tuira River.

The climate is humid and warm; annual precipitation varies between 2000-5000 mm. The dry season extends from Jan-Apr. Temperatures vary from 16°C to 27°C at 1875 m above sea level along the coast of the Gulf of Panama, on the Pacific Ocean.

The Park's administrative headquarters are in El Real at approximately one hour by plane from the Paitilla Airport.

The town of El Real de Santa María is a small town with 500 inhabitants, a few streets and stores and a small hotel. Food can be purchased from some families in the town. The water is drinkable, but should be boiled, electricity is available 24 hrs/day. Communication is possible through telegraphs, or mail.

INRENARE and ANCON have offices in the area; lodging and kitchen facilities are available by previous arrangement.

During the dry season you can reach El Real from Panama City though the Panamerican Highway to Yaviza (7-8 hrs) and from there in a motorized canoe to El Real (1 hour). INRENARE has a station in Yaviza but arrangements must be made in Panama City.

Trips to the Park are coordinated at the office of the Dirección General de Areas Protegidas y Vida Silvestre, INRENARE and/or with ANCON. INRENARE collecting permits are required for scientific research.

All stations are cement buildings with large screened windows. Dormitories have bunk beds, a living room, letrines, wood stoves and utensils. All stations have a river nearby for drinking and bathing.

Cerro Pirre Station

Cerro Pirre Station is located in the forest, 14 km from El Real (3 hour walk). During the dry season, the station can be reached by foot, or by horses and mules. During the rainy season the station can be accessed by canoe for part of the way from Rio Pirre and then by foot (1 hour). The mud makes the road difficult during this time of the year. The station



During a session of the Extension Education Program on Tuesday, July 14, Exxon fellows and volunteers listen to Dr. Joe Wright explain his current research using the canopy crane ••• Durante una sesión del Programa Educativo de Extensión el martes 14 de julio, becarios Exxon y voluntarios atendieron a las explicaciones del Dr. Joe Wright sobre sus investigaciones utilizando la grúa del dosel en el Parque Natural Metropolitano.
(Foto: M.A. Guerra)

maintains two-full time gamewardens, usually Embera Indians who speak Spanish or Afrohispanic natives. A nature trail was created and there are several paths in the forest, close to the station and camp grounds at 500, 800 and 1,000 m. altitude.

Cruce del Mono Station

It is located at the base of Cerro Pirre. To get there you travel from El Real up river on the Rio Tuira in a motorized canoe, until you get to the town of Boca del Cupe, a two to three hours journey. From this town you walk five hours to the station. The station has three permanent gamewardens, generally Kunas and Afrohispanics from Darien. There are no nature trails but several paths. Access to Cana, a miners town, is possible and the town has interesting species of birds and flora. It is a five hours trip from Cruce de Mono to Cana. To stay in Cana you need to obtain permission from the Mining Company (IXTAPA, S.A.).

Balsas Station

Located where the rivers Balsas and Tucutí merge. From El Real you take a motorized canoe down from El Tuira to the Balsas River; it is four hours to the station. The forest have been severely altered; communities of Emberas and Afrohispanics are found in the surrounding area. This is the only station with an electric plant and the more recent one built.

STRI NEW BOOKLIST

- Amazonia: voices from the rainforest: a resource & action guide / editor, Angela Gennino.**
QH541.5.R27A477 1990 STRI.
- The Archaeology of Mission Santa Catalina de Guale / David Hurst Thomas.** E78.G3T455 1987 STRI.
- Catálogo de anfibios y reptiles del Museo de Zoología, Facultad de Ciencias, Universidad Nacional Autónoma de México / Oscar A. Flores Villela, Efraín Hernández García [y] Adrián Nieto Herrera.**
QL655.F63c 1991 STRI.
- Coastlines of the Caribbean / volume editor Gillian Cambers.** GB459.17.S96 1991X STRI.
- Contribución al conocimiento del género *Quercus* (Fagaceae) en el estado de Jalisco / Luz María González Villarreal.** QK495.F14G64 1986 STRI.
- Costos de reforestación en América Central, 1981-1987 / Thomas A. McKenzie.** SD409.M15 1991 STRI.
- Crustacean egg production / ed. by Adrian Wenner & Armand Kuris.** QE816.C95 1991 STRI.
- Desarrollo de trabajo conjunto entre pueblos indígenas, conservacionistas, y planificadores del uso de la tierra en América Latina / Peter Poole.**
QH77.L29P82 1990 STRI.
- The Early evolution of Metazoa and the significance of problematic taxa: proceedings of an international symposium held at the University of Camerino, 27-31 March 1989 / edited by Alberto M. Simonetta and Simon Conway Morris.** QE721.2.E85E37 1991X STRI.
- Environment in peril / edited by Anthony B. Wolbarst.** GF75.E56 1991X STRI.
- The Environmental impact of burrowing animals and animal burrows: the proceedings of a symposium held at the Zoological Society of London / edited by S. Meadows and Azra Meadows.** QL756.15.E61 1991 STRI.
- Etnografía e historia del mundo andino: continuidad y cambio / Shozo Masuda, editor.** GN564.S63E84 1986 STRI.
- A Field guide to the Acacias of Kenya / by Malcolm Coe and Henk Beentje.** QK495.L52C63 1991X STRI.
- Handbook of mathematical function, with formulas, graphs, and mathematical tables / edited by Milton Abramowitz and Irene A. Stegun.**
Ref QA248.5.A16 1972 STRI.
- Into the Amazon: the struggle for the rain forest / Augusta Dwyer.** GF532.A4D88 1990X STRI.
- Jurassic and Cretaceous floras and climates of the earth / V.A. Vakrameev.** QE923.V35 1991X STRI.
- Molecular signals in plant-microbe communications / editor, Desh Pal S. Verma.** QR351.M65 1992X STRI.
- A Monograph of Wallaba, Mora and Greenheart / H. ter Steege.** QH541.5.R27S813 1990 STRI.
- Paying the farm bill: U.S. agricultural policy and the transition to sustainable agriculture / Paul Faeth ... [et al.].** HD1761.P34 1991 STRI.
- Recursos naturales andinos / Shozo Masuda, editor.** S934.A55R311 1988 STRI.
- Red gold: the conquest of the Brazilian Indians / John Hemming.** F2519.H45X 1978 STRI.
- Revision of the world species of *Spalangiopecta* (Hymenoptera: Chalcidoidea: Pteromalidae: Ceinae) / D. Christopher Darling.** QL568.P94D22 1991 STRI.
- Studies in honour of Dr. Pieter Wagenaar Hummelinck / edited by L.J. Van Der Steen.** QH109.A5S93 1988 STRI.
- Studies of Sonoran geology / edited by Efrén Pérez-Segura, César Jacques-Ayala.** QH203.S65S78 1991X STRI.
- Walking with the great apes: Jane Goodall, Dian Fossey, Birut Galdikas / Sy Montgomery.** QL26.M66 1991X STRI.
- Wildlife toxicology / Tony J. Peterle.** QH545.P4P497 1991X STRI.
- Advances in Ecological Research, v.22, 1992: The ecological consequences of global climate change / edited by F.I. Woodward.**

From: 365 Ways to Save our Planet
• Page-a-Day Calendar •

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