

STRI newsletter

December 18, 1992

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 51

TUPPER CENTER SEMINARS

No noon seminar scheduled for Tue, Dec. 22.

PEOPLE

Arrivals

- Scott Armbruster, University of Alaska, on Dec 20-Jan 1, to study the chemical ecology of resins produced by *Dalechampia* (Euphorbiaceae), at Gamboa and BCI.
- Peter Searles, University of Utah, on Dec 20-Jul 31, to work with Martyn Caldwell in the effects of tropical solar UV-B in gap environments.
- Michael Greenfield, University of Kansas, on Dec 20-Jan 8, to work on acoustic signal interactions in katydids (Orthoptera: Tettigoniidae), at Gamboa.
- Valery Terwilliger, University of Kansas, on Dec 26-Jan 8, to work on plasticity in water relations between tropical evergreen & deciduous pioneer trees, at Gamboa and PNM.
- Steve Mulkey, University of Missouri, on Dec 22-June 30, to work with Joe Wright and Alan Smith on *Psychotria* & *Marantaceae*, at Tupper.

Departures

- Norman Duke, returning to Australia, Dec 22, after terminating his work on the Oil Spill Project.
- Stanley Rand, going on leave for the Christmas Holidays, Dec 23-Jan 10, followed by a visit to the University of Austin, Texas, where will be consulting with Dr. Michael Ryan regarding their joint research.

On Leave

- Francisco Sánchez, Nov 27-Jan 7
- Alcibiades Cedeño, Dec 9-23
- Egbert Leigh, Dec 12-31
- Luis Cruz, Dec 14-Jan 11
- Arcadio Rodaniche, Dec 17-Jan 4
- Ricardo Thompson, Dec 21-24
- Audrey Smith, Dec 28-31
- Amalia Herrera, Dec 28-31



As part of the STRI-U of Panama lecture series, STRI scientist Jeremy Jackson, presented the findings of the Panama Paleontology Program to an audience at the University of Panama. Jackson described how the formation of the isthmus affected the oceans ••• Como parte de la serie de conferencias STRI-Universidad de Panamá, Jeremy Jackson, científico de STRI, presentó los resultados del Programa de Paleontología de Panamá a una audiencia en la Universidad de Panamá. Jackson describió como la formación del istmo afectó los océanos.

(Foto: A.Montaner)

THINGS YOU SHOULD KNOW

Visit to BCI of World President's Organization ••• Visita de la Organización Mundial de Presidentes a la Isla de Barro Colorado

The World President's Organization (WPO) is scheduled to visit Barro Colorado Island as part of its 1993 Conference (Conferencia de las Américas). The WPO is an international association of corporate presidents and business leaders from the United States and Latin America. The planned visit to BCI is part of a cruise that will take the group from Mexico, to Costa Rica, through the Panama Canal, to Colombia and Venezuela. The purpose of this study tour is to bring WPO members up to date with issues affecting the region such as free trade, near-term political and economic prospects, the effects of the drug trade, and the conservation efforts in the region. STRI staff is already working on the coordination of this visit, scheduled for Jan 25, 1993, and Monica Alvarado will be the liaison person with WPO organizers. ••• La Organización Mundial de Presidentes (WPO por sus siglas en inglés), visitará la Isla de Barro Colorado como parte de la Conferencia de las Américas 1993. Esta Organización es una asociación internacional de presidentes corporativos y líderes de negocios de los Estados Unidos y Latinoamérica. La visita a BCI es parte de un crucero que

Llevará al grupo desde Méjico a Costa Rica, y a través del Canal de Panamá, a Colombia y Venezuela. El objetivo de este viaje educativo es el de actualizar a los miembros de esta organización en asuntos regionales, tales como el libre comercio, prospectos políticos y económicos a corto plazo, los efectos del tráfico de drogas y los esfuerzos conservacionistas de la región. Actualmente, personal de STRI se encuentran trabajando en la organización de esta visita, programada para el 25 de enero de 1993, y Mónica Alvarado actuará como el enlace entre STRI y los organizadores.

Christmas Gift ••• Obsequio Navideño

Mary Ann Lindgren and Lucy Dorick from the STRI Office in Washington D.C., have sent two Christmas cakes for all friends at STRI in Panama. On Fri 18 of Dec at the Christmas Party, we will have a bite of this generous present. ••• *Mary Ann Lindgren y Lucy Dorick de la Oficina de STRI en Washington, han obsequiado dos deliciosos dulces de Navidad para todos los amigos de STRI en Panamá. El viernes 18 de diciembre durante la Fiesta de Navidad, podremos probar este generoso regalo.*

Lost Wallet ••• Billetera Perdida

Patricia Sánchez Baracaldo lost her brown leather wallet with money, personal documents and STRI ID on Tue Dec. 15 between 5 pm-7 pm, either in the Auditorium, Exhibit Hall or Library. If you have found it please contact her at Naos Marine Lab. ••• *Patricia Sánchez Baracaldo ha perdido su billetera color marrón con dinero, todos sus documentos personales y ID de STRI, el día martes diciembre 15 entre las 5 pm-7 pm, pudo haber sido en el Auditorio, Salón de Exhibiciones o Biblioteca. Si la ha encontrado favor contactarla en el Laboratorio Marino de Naos.*

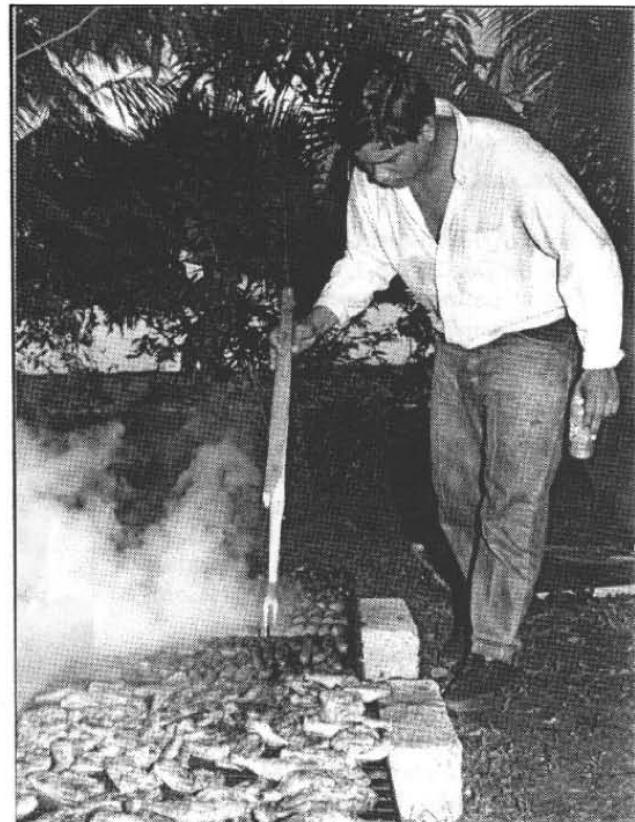
ANNOUNCEMENTS

At Tupper Center

- Dec 21 STRI Handbook Meeting, 2-4 pm, Small Meeting Room. Reception for Oil Spill Project, 4-6 pm, Exhibit Hall.
- Dec 22 Academic Board Meeting, 1-3 pm, Small Meeting Room.

U.S.- Japan Global Change Workshop

The Committee on Earth and Environmental Sciences (CEES) is hosting a workshop in Feb 1-3 at the East West Center in Hawaii, under the U.S.- Japan Science and Technology agreement (UJST) on "Environmental Response Strategies for Global Change." The workshop is being co-chaired on the U.S. side by Dr. Robert Simon, DOE, and Dr. Gary Evans, USDA, who have been working toward developing a CEES Subcommittee on -



The traditional Naos Christmas party was held Friday, 11 December. It was great! Full of food, fun, and music.

••• *La tradicional fiesta de Navidad de Naos se realizó el viernes, 11 de diciembre. Fue excelente! Hubo gran cantidad de comida, estuvo llena de alegría y buena música.*

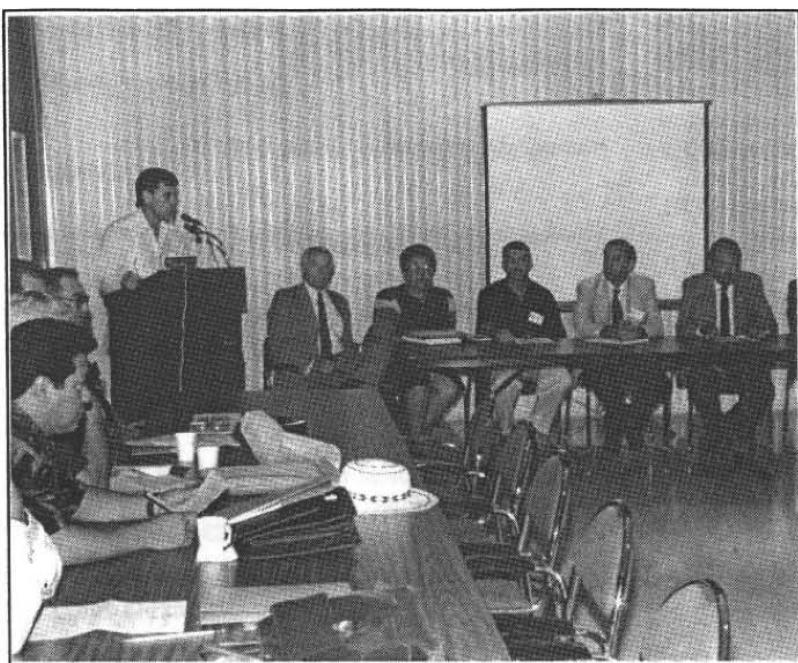
(Foto: M. A. Guerra)

Environmental Technologies. Dr. Yokoyama of the National Institute for Resource and Technology is the chair on the Japanese side. The Working Group Topics are:

Group 1 CO₂ Fixation and Utilization Technologies • CO₂ Separation and Condensation • CO₂ Fixation by Artificial Photosynthesis, by Microorganisms • CO₂ Storage in Deep Sea, Underground.

Group 2 Reduction Technologies • Combustion Efficiency • Fuel Cell and Solar Energy Utilization • Energy Conservation Technology • Biomass Energy Utilization • Emission Control of N₂O.

Group 3 Adaptation Technologies • Urban Infrastructure and Planning • CO₂ from Transportation Systems • Forest Management Techniques for CO₂ Fixation • Reduction of CH₄ from Agricultural Lands • Adaptation Responses of Crops to Climate Change.



On Monday, Dec 14, Stanley Heckadon, STRI, inaugurated the three-day Workshop on The Environmental and Social Agenda for Bocas del Toro at the Tupper Center. The event was co-sponsored by Wildlife Conservation International, Cultural Survival, STRI and INRENARE. A third of the participants were leaders from Indian communities from Bocas, because most of the surviving tropical forests of this caribbean region are within their territories.

(Photo: M.A. Guerra)

Requests for Assistance

The West Indian Island of Dominica is home to two endangered psittacines, the Imperial Parrot and the Red-necked Parrot. Recent conservation efforts have been successful in increasing the Red-necked Parrot population to about 500 individuals. However, the increased population is now posing a

threat to the citrus crop on Dominica. Any one with experience in or ideas on how to deal with parrot "depredations" on citrus crops is asked to immediately contact: Mr. Felix Gregoire, Acting Permanent Secretary, Ministry of Agriculture, Roseau, DOMINICA, West Indies. (ph 809-448-6105).

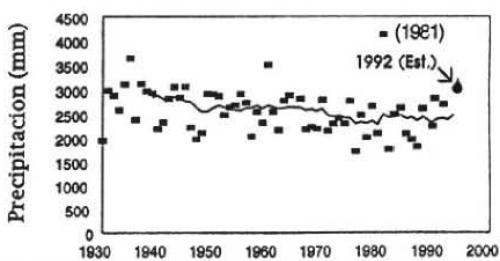
Internships

The Missouri Ozark Forest Ecology Project (MOFEP) of the Univ. of Missouri and Missouri Dept. of Conservation is looking for 27 undergraduate research interns to work on Neotropical Migrant birds during the summer of 1993, mid-May through July. A fellowship (\$1800 in 1993), college credit, housing, and necessary field equipment are provided. Students participate in spot-mapping, finding and monitoring nests, banding, and vegetation studies, plus small individual research projects, in the beautiful Ozark Mountains of southeast Missouri (near the Ozark National Scenic Riverways). For further information and application forms (due 1 Jan. 1993) contact John Faaborg, Div. of Biological Sciences, 110 Tucker Hall, Univ. of Missouri, Columbia, MO 65211 (314-882-7541).

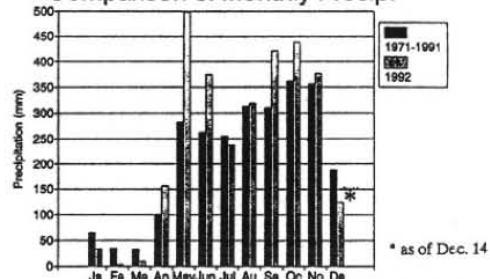
De la Biblioteca

Se avisa a los usuarios que la biblioteca permanecerá cerrada los sábados 26 de diciembre y 2 de enero.

Precipitación Anual en BCI



Comparison of Monthly Precip.



As of Dec 14, 1992, the ESP meteorology monitoring station on Barro Colorado Island has recorded 1990.4 mm of rain. This is the second highest rainfall recorded since 1960 (only 1981, with 4,467 mm, was greater). This year's total rainfall is even more impressive considering that, during the first three months of the year, approximately only half of the normal amount of rainfall occurred. (Information and graphics courtesy of Steve Paton)

STRI NEW BOOKLIST

Biotechnology and the conservation of genetic diversity: the proceedings of a symposium held at the Zoological Society of London on 4th and 5th September 1990 / edited by H.D.M. Moore, W.V. Holt and G.M. Mace.

QL82.B616 1992 STRI.

Bolivia: medio ambiente y ecología aplicada / Cecile B. de Morales.

QH115.M82 1990 STRI.

The Correspondence of Charles Darwin, v.6. 1856-1857.

QH31.D2A33 1985X v.6 STRI.

Demography and natural history of the common fruit bat, *Artibeus jamaicensis*, on Barro Colorado Island, Panama / Charles O. Handley, Jr., Don E. Wilson, and Alfred L. Gardner.

QL737.C57D38 1991 STRI.

The Evolution of life histories / Stephen C. Stearns.

QH371.S72 1992X STRI.

Frontiers of nutrition and food security in Asia, Africa, and Latin America / edited by Neil G. Kotler.

HD9018.D442F76 1992X STRI.

Helping researchers write— so managers can understand / by Pneena Sageev.

PE1475.S25 1986X STRI.

Herbivores, their interaction with secondary plant metabolites, v.2. Ecological and evolutionary processes / edited by Gerald A. Rosenthal, May R. Berenbaum.

QH541.H36 1991X v.2 STRI.

IUCN directory of South Asian protected areas / compiled by Michael J.B. Green.

Ref **QH77.A78G79 1990 STRI.**

The Invertebrates: an illustrated glossary / Michael Stachowitsch; Sylvie Proidl, illustrations.

Ref **QL362.S82 1992X STRI.**

Latin America's economy: diversity, trends, and conflicts / Eliana Cardoso, Ann Helwege.

HC125.C337 1992X STRI.

Lost crops of the Incas: little-known plants of the Andes with promise for worldwide cultivation / report of an Ad Hoc Panel of the Advisory Committee on Technology Innovation, Board on Science and Technology for International Development, National Research Council.

SB176.A55L88 1989 STRI.

Mamíferos silvestres de Honduras / Leonel Marineros, Francisco Martínez Gallegos.

QL723.H8M37 1988X STRI.

Manual de ecología / Cecile B. de Morales.

QH115.M82m 1988.

Management in action: guidelines for new managers / William D. Hitt.

HD31.H534 1985X STRI.

Medicinal plants of the West Indies / Edward S. Ayensu.

QK99.W4A97 STRI.

Microcomputers in environmental biology / edited by J.N.R. Jeffers.

QH541.15.E45M53 1992X STRI.

Neotropical rainforest mammals: a field guide / text by Louise H. Emmons; color plates and illustrations by François Feer.

QL723.A1E44 1990X STRI.

101 uses of Lotus in libraries / Robert Machalow.

Z678.93.L68M3 1992X STRI.

The Origins of agriculture: an international perspective / edited by C. Wesley Cowan and Patty Jo Watson with the assistance of Nancy L. Benco.

GN799.A4O75 1992X STRI.

Palms in forest ecosystems of Amazonia / Francis Kahn, Jean Jacques de Granville.

QK495.P17K34 1992X STRI.

Physicochemical and environmental plant physiology / Park S. Nobel.

QK711.2.N623 1991X STRI.

The Physiological ecology of woody plants / Theodore T. Kozlowski, Paul J. Kramer, Stephen G. Pallardy.

QK905.K69 1991X STRI.

Phytoplankton / A.D. Boney.

QK933.B712 1989 STRI.

Pigments in vegetables: chlorophylls and carotenoids / Jeana Gross.

SB324.64.G76 1991X STRI.

Pollen and spores of Barro Colorado Island / David W. Roubik, Jorge Enrique Moreno.

PQK658.R85 1991 STRI.

Text-aided archaeology / editor, Barbara J. Little.

E159.5.T48 1992X STRI.

Time frames: the rethinking of Darwinian evolution and the theory of punctuated equilibria / Niles Eldredge.

QH371.E44 1985X STRI.

Periodicals

Annual Review of earth and planetary sciences, v.19, 1991.