

STRI newsletter

September 10, 1993

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 37

TUPPER CENTER SEMINARS

Tue, Sep 13, noon seminar speaker will be James Miller, American Museum of Natural History.

The Evolution of Host-Plant Associations in Lepidoptera

Abstract

Relationships between butterflies and their host plants provided the inspiration for Ehrlich and Raven's theory of coevolution, formulated in 1964. Since that time, phylogenetic methods have shed new light on the evolution of host use in phytophagous insect groups. At least in Lepidoptera, there is little evidence for coevolution. Instead, most host associations seem to have evolved repeatedly. A growing body of evidence supports the theory that host use is mediated largely by plant secondary chemicals.

SPECIAL

Thu, Sep 16, noon seminar speaker will be Peter W. Price, Northern Arizona U.

A Search for Pattern and Mechanism in Plant-Herbivore-Carnivore Interactions in Temperate and Tropical Regions

BAMBI

Thu, Sep 16, Bambi speaker will be Elizabeth Stacy, at 7:30 pm.

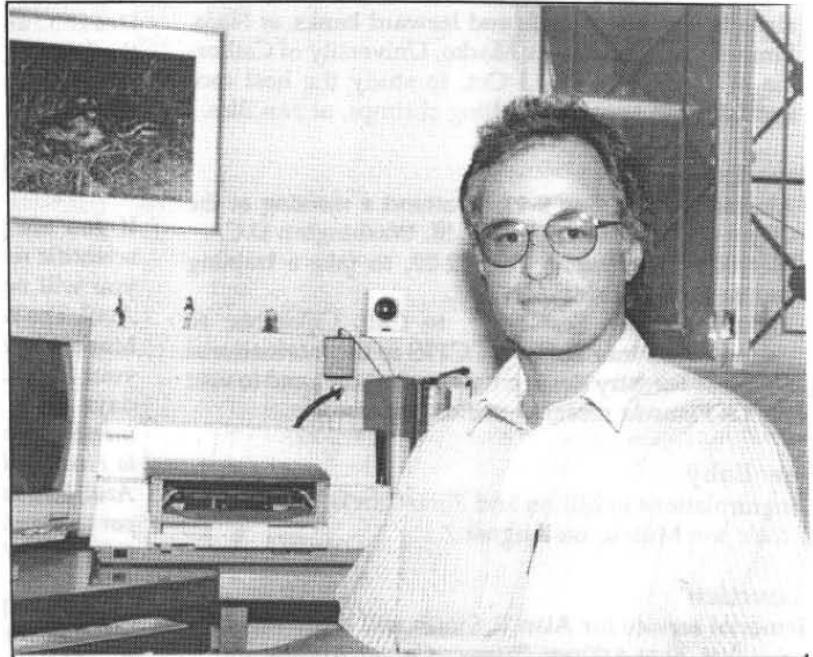
Gene Movement among Widely Dispersed Tropical Trees

Please arrange transportation with BCI.

PEOPLE

Arrivals

- Raquel Negrelle, Universidad Federal do Parana, Brasil, Sep 12-12 Dec, to work with Richard Condit, at BCI and Gamboa.
- Susan Pendray, University of British Columbia, Canada, Sep 15-31 Oct, to work with Gregory Gilbert, on BCI.



Howard Barnes, new Assistant Director for Scientific Support Services, has been at STRI two weeks and has visited many of the facilities and met with staff under his supervision. His office is at the Tivoli Building ••• Howard Barnes, nuevo Director Adjunto para los Servicios de Apoyo Científico, ha estado en STRI por dos semanas, y ha visitado varias de las instalaciones del Instituto y se ha reunido con el personal que supervisa. Su oficina está ubicada en el Edificio Tivoli.

(Foto: A. Montaner)

- Otto Lange, Burkhard Budel, Angelika Meyer and Hans Zellner, University of Wurzburg, Germany, Sep 12-7 Oct, to conduct a study on the ecology of lichens in the tropical rainforest: species diversity, water relations, photosynthesis and productivity, in Chiriqui.
- Thomas Green, Waikato University, New Zealand, Sep 12-7 Oct, to work with Otto Lange, in Chiriqui.
- David Adler, Bates College, Maine, Sep 12-Dec, to work as a volunteer with John Christy and Ross Robertson, at Naos and San Blas.
- Robert Stallard, U.S. Geological Survey, Colorado, Sep 12-26, to monitor long-term biochemical cycles in watersheds, on BCI
- Elizabeth Graham, Princeton University, Sep 13-10 Dec, to study the seed and seedling fate on BCI and the surrounding mainland, at BCI.
- Peter Price, Short-term visitor from Northern Arizona University, Sep 14-21, to visit canopy crane to sample the crown of different tree species for the presence of leaf falls as part of a major latitudinal comparison.
- Deborah Freile, Kelly Ann Boland and Michelle Shearer, Georgia State University, Sep 15-4 Nov, to study the seasonal production,

accumulation and alteration rates of calcareous green algae in Caribbean reefs and leeward banks, at Naos.

- Emmet Duffy and Peter Marko, University of California at Davis, Sep 15-13 Oct, to study the host race speciation in sponge-dwelling shrimps, at San Blas.

Departures

- Alejandro Arze, Sep 9-11, to attend a meeting at the Office of Protection Services, SI, Washington D.C.
- Mercedes Arosemena, Sep 12-22, to take a training course at SI, Washington D.C.
- Richard Condit, Sep 14-23, to Cali, Colombia, to present a seminar about the CTFS to the international Union of Forestry Research Organizations, and to visit the La Planada research station, in Pasto.

New Baby

Congratulations to Milton and Elina García, for the birth of their son Milton, on August 7.

Correction

Memorial service for Alan P. Smith will be on Monday, September 20 at 4:00pm, Tupper Center Auditorium.

THINGS YOU SHOULD KNOW

From the Procurement Department

The Procurement Department staff has been temporarily located at the Tivoli Building. Please note their new telephone extension numbers:

Mercedes Arroyo: 233	Gabriel Martínez: 237
Bobby Borrell: 229	Luis Turner: 253
Mirna Fernández: 362	

At Tupper Center

- Tue, Sep 14
- Noon seminar by James Miller
 - Scientific Staff Meeting, Large Meeting Room, 1:30pm.
 - Young Presidents Organization dinner, Conference Center, 7pm.
- Thu, Sep 16
- Noon seminar by Peter W. Price.

From BCI

Mon, Sep 20, afternoon boat to Panama will leave at 2:30pm, for those attending Alan Smith's memorial service. It will return to BCI at 5:55pm.

At the Culebra Marine Biological Reserve

- Tue, Sep 14 *Colegio Javier*, 9-11:30am.
 Wed, Sep 15 *Escuela Nuevo Emperador*, 9-11:30am.
 Thu, Sep 16 *Escuela Simón Rodríguez*, 9-11:30am.

Reminder

Deadline at the Director's Office to submit proposals to the Women's Committee is September 22, 1993. Please send original and 3 copies. Guidelines at the Director's Office.

From Visitor Services Office

De la Oficina de Visitantes

If you are planning to collect specimens or carry out scientific research in Cerro Azul inside the "Finca Melo", you will need to obtain a permit from Altos de Cerro Azul. The request must be submitted in writing through Maria Morello, Visitor Services Office, accompanied by your IN.RE.NA.RE. permit. The permit takes 5 working days to be processed ••• *Si planea efectuar colectas o investigaciones científicas en el área de Cerro Azul dentro de la Finca Melo, deberá obtener un permiso de Altos de Cerro Azul, S.A. La solicitud deberá hacerse por escrito, acompañada por su permiso de IN.RE.NA.RE., a través de Maria Morello, Oficina de Visitantes. El trámite toma 5 días laborales.*

For all Tupper Users

The alarm system will be tested by Simplex on Saturday, Sep 11, all day.

Behavior Discussion Group Meeting

The Behavior Discussion Group will meet on Tue, Sep 21, 5:pm, at the Tupper Large Meeting Room. David and Jeanne Zeh will conduct the discussion on the population divergence and cryptic species, based on their manuscript "When Morphology Misleads: Interpopulation Uniformity in Sexual Selection Masks Genetic Divergence in Harlequin Beetle-riding Pseudo-Scorpion Populations", submitted to *Evolution*. For previous reading see Thompson, N.J. 1987. Symbiont-induced speciation. *Biol. J. Linn. Soc.* 32:385-393 and Coyne, J.A. 1992. *Genetics and speciation*. *Nature* 355: 511-515. Copies of the manuscript will be available on BCI (Lounge), Gamboa (Bldg 183), Naos (U. Schober) and Tupper (Launge).

ANNOUNCEMENTS

From the Office of External Affairs

STRI Director Ira Rubinoff and Alberto Osorio, Director of the Instituto Nacional de Cultura (INAC), signed the renewal of an agreement that authorizes STRI to continue archaeological research and excavations in Chame, Province of Panama, conducted by Carlos Fitzgerald and supervised by Richard Cooke. Osorio also signed the authorization to continue archaeological research at Cerro Juan Diaz, Province of Los Santos, by Luis Alberto Sanchez and Aguilardo Perez, under the supervision of Richard Cooke.

Audubon Birdwatching Course

The Panama Audubon Society will hold a birdwatching course from Sep 16-10 Oct. The course consists of four lectures and four field trips. Lectures will be given on Thursdays at the Panama Canal Commission Training Center at 7pm and the field trips will take place on Sundays. Necessary gear: binoculars, the book *Birds of Panama* by Robert Ridgely, and the *Field Checklist of the Birds of the Republic of Panama, Canal Area*. Fee: \$50. For more information, please contact Leopoldo León at 64-0789.

To all Research Staff

Due to severe reductions made in funding for the Scholarly Studies Program (SSP), changes and limitations will be imposed temporarily. The program guidelines remain the same except where they are superseded by the following modifications:

- The maximum funding request should no exceed \$70,000 for two year projects, or \$35,000 for one year.
- Support for pre- or recent post-doctoral fellows under a SSP grant must be at the normal annual stipend levels of the P.I.'s bureau.
- Support for collaborators and consultants at a more senior level will be considered only for 1-2 months —as a contract, for summer salaries, or as a stipend.
- Support for technicians should not exceed a GS-7 level, including benefits.
- Part-time salaries for S.I. employees whose part- or full-time salaries are currently fully funded from outside grants or contracts cannot be accommodated under the SSP.
- Travel for attendance at professional meetings may not receive priority, especially for international events. For other research travel, airfares and per diem should be kept to the absolute minimum. All travel requests must be specifically justified.
- All budget items must be justified in detail, and all sources of other funding for the project must be fully explained.



La Tienda Ecológica del Parque Natural Metropolitano llegó a su primer aniversario el pasado 14 de agosto, bajo la administración de María Bernal, de la Oficina de Asuntos Externos de STRI. Hace un año, el Instituto suministró los fondos iniciales para instalar la tienda, la cual ha tenido gran acogida entre todos los visitantes nacionales e internacionales del parque.

(Foto: Cortesía del Yolanda Jiménez, PNM)

Note: If a perception of the usual scale of SSP funding has discouraged from you from applying, or if the guidelines on proposal length and outside reviews seem disproportionate to the scope of a project you have in mind, please be assured that proposals for funding at any level up to the \$35,000 per year maximum are welcome. A shorter proposal, evaluated by fewer outside reviewers, may be sufficient. All proposals will receive the same consideration from the SSP Review Committee. If you have any questions, please call Roberta Rubinoff, Office of Fellowships and Grants, (202) 287-3271.

Obituary

Richard S. Houbriek (Joe), 56, curator at the National Museum of Natural History, died on Friday, August 27, at the Georgetown University Hospital from a heart attack. Houbriek came to the Smithsonian in 1971 as a marine biologist at the Oceanographic Sorting Center and then, for most of his career, as a curator in the Department of Invertebrate Zoology. He was an expert in malacology and specialized on the morphology, systematics, evolution and biology of the gastropod superfamily Carithioidea, an important tropical group of shallow-water snails. A memorial service will be held at the Museum in early November.

NEW STRI BOOKLIST

The Brazilian rainforest: politics, finance, mining, and the environment / by David Cleary.

HC188.A5C57 1991X STRI.

Bibliografía botánica para Colombia / editores, Javier Estrada, Javier Fuertes & José María Cardiel; compiladores, José María Cardiel... [et al.].

Z5358.C7B58 1991 STRI.

Coastal bottom boundary layers and sediment transport / Peter Nielsen.

GB451.2.N533 1992X STRI.

Conservation and environment in Papua New Guinea: establishing research priorities: proceedings of a symposium held June 3, 1991 / editors, Mary Pearl... [et al.]; production editor, Meade Love Thomas.

S934.P26C75 1991 STRI.

Conserving the world's biological diversity / by Jeffrey A. McNeely... [et al.]; prepared and published by the International Union for Conservation of Nature and Natural Resources, World Resources Institute, Conservation International, World Wildlife Fund-US, and the World Bank.

QH75.C756 1990 STRI.

The Deep-sea red crab Chaceon ("Geryon"): a guide to information and a reference list of the family Geryonidae / by Elliot W. Dawson and W. Richard Webber.

QL444.M33D272d 1991 STRI.

Cycads of the world / David L. Jones; foreword by Dennis Wm. Stephenson.

QK494.5.C995J76 1993 STRI.

The Design and analysis of research studies / by Bryan F.J. Manly.

R853.S7M36 1992X STRI.

Distribución de Polylepis en el sur de Puno / Ernesto Yallico.

QK495.R78Y19 1992 STRI.

Entre lo mágico y lo natural: la medicina indígena: testimonios de Pesillo / Pier Paolo Balladelli; [con la colaboración de J. Miguel Colcha].

F2230.2.K4B18 1990 STRI.

Eocene-Oligocene climatic and biotic evolution / edited by Donald R. Prothero and William A. Berggren.

QE737.E53 1992X STRI.

European seashells, v.I (Polyplacophora, Caudofoveata, Solenogaster, Gastropoda) / Guidot T. Poppe & Yoshihiro Goto.

QL425.A1P83 1991 v.1 STRI.

Experimental analysis of behavior / editors, Iver H. Iversen and Kennon A. Lattal.

BF319.5.O6E97 1991X STRI.

Extinction and phylogeny / editors, Michael J. Novacek and Quentin D. Wheeler.

QE721.2.E97E967 1992X STRI.

Female choices: sexual behavior of female primates / Meredith F. Small; drawings by Andrea S. Perkins.

QL737.P9S595 1993X STRI.

Flora fanerogamica da Ilha do Cardoso / [editores, Maria Margarida R. Fiuza de Melo et al.].

QK263.F635 1991 STRI.

The Great migration / Jonathan Scott.

QL737.U53S427 1989 STRI.

Fossil horses: systematics, paleobiology, and evolution of the family equidae / Bruce J. MacFadden.

QE882.U6M27 1992X STRI.

Frontiers of shrimp research / edited by P.F. DeLoach, W.J. Dougherty, M.A. Davidson.

SH380.6.F76 1991X STRI.

Fruit and seed production: aspects of development, environmental physiology, and ecology / edited by C. Marshal, J. Grace.

QK660.F78 1992X STRI/

The Good serials department / Peter Gellatly, editor.

Z692.S5S48 STRI.

Handbook of nutrient requirements of finfish / editor, Robert P. Wilson.

SH156.H355 1991X STRI.

Lake Titicaca: a synthesis of limnological knowledge / edited by C. Dejoux and A. Iltis.

QH128.L19 1992 STRI.

Una Larga controversia: Darwin y el darwinismo / Ernst Mayr.

QH371.M336 S1992 STRI.

Marine shrimp culture: principles and practices / edited by Arlo W. Fast and L. James Lester.

SH380.6.M36 1992X STRI.

The Meaning of evolution: the morphological construction and ideological reconstruction of Darwin's theory / Robert J. Richards.

QH366.2.R52 1992X STRI.

Methods in plant biochemistry, vol.8: Alkaloids and sulphur compounds / series editors, P.M. Dey and J.B. Harborne.

QK861.M592 STRI.

Monitoring ecological change / Ian F. Spellerberg.

QH541.15.M64S73 1991X STRI.

Natural enemies: the population biology of predators, parasites, and diseases / edited by M.J. Crawley.

QL758.N37 1992X STRI.