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### **AFRICA**

Bura Fuelwoods Project. The 1993 Special Issue of the East African Agricultural and Forestry Journal highlights the main scientific results of the forestry research conducted within the Bura Fuelwood Project in eastern Kenya from 1984 to 1993. The work was supported by the Finnish International Development Agency and was undertaken jointly by the Kenya Forestry Research Institute and the University of Helsinki. Also just released is a report by Stig Johansson on various aspects of forestry in irrigated agricultural schemes, using the Bura Irrigation and Settlement Project in Kenya as a case study. A limited number of free copies is available upon request from the publisher: University of Helsinki, Tropical Forestry Reports, P.O. Box 28, FIN-00014 University of Helsinki, Helsinki 71, Finland.



### ASIA

Hong Kong Ecology. Hills and Streams: An Ecology of Hong Kong, by David Dudgeon and Richard Corlett, 1994. Despite centuries of human impact and one of the highest population densities on Earth, most of Hong Kong is still rural in character and diverse in terms of flora and fauna. Surprisingly, Hong Kong has more wild animal and plant species than Britain. This diversity is threatened, though, by the uncontrolled development of previously rural areas. This

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book aims to contribute to the conservation of Hong Kong countryside both by raising awareness of its value and by providing the scientific basis for its management. For the international reader, Hong Kong provides an instructive example of the effects of intense human impact on species-rich habitats. The book is illustrated by three full-color maps and 68 color plates. 256 pp. ISBN 962-209-3574, \$18.00(US) + 4.00 s&h, checks payable to The University of Hong Kong. Hong Kong University Press, 139 Pokfulam Road, Hong Kong. Tel. 2550 2703, FAX 2875 0734.



# AUSTRALIA AND PACIFIC BASIN

Conservation Outside Reserves. A conference to look at nature conservation in landscapes managed primarily for other uses will be held at University of Queensland, 5-8 February 1996. The conference is about achieving nature conservation in disturbed landscapes: that is in landscapes which are used primarily for agriculture, mining, grazing, forestry, fishing, or human habitation. They include the arid and semi-arid rangelands, with their savannah, shrubland, mulga woodland and brigalow communities; sclerophyll forests and rainforests; wetland and estuarine systems. The geographic scope of the conference is Australia, New Zealand, and South-East Asian and Pacific Island Nations. It is hoped that the conference will bring together landholders, government and non-government organizations, relevant industrial interests, and financial institutions. The format will be several overview papers intended to provide a general perspective on topics such as legislative aspects, economic issues, and conservation of vulnerable, rare, and endangered species outside reserves. Topics will be examined in detail in either symposia focusing on conservation within particular land uses such as forestry or agriculture, or forums dealing with topics of broader interest, such as economic incentives or the legislative context for conservation. There will be sessions for contributed oral papers and posters. Information: Conference Secretariat, Center for Conservation Biology, The University of Queensland, Q 4072, Australia.

Tel. 617 3652527, AX 617 3654828, Email: p.hale@mailbox.uq.oz.au.



### EUROPE

The Tree: Biology and Development. The 3rd International Symposium on The Tree will be held in Montpellier, France, 11-16 September 1995. The purposes of the congress are to promote overall concepts of trees, by bringing together fields that usually remain isolated from each other; to enhance contact between scientists working in temperate and tropical regions and between botanists, foresters, plant anatomists, plant physiologists, horticulturalists, and agronomists; to provide everyone with an opportunity to get in depth knowledge on the various aspects of research on woody plants. Information: Colloque "L'ARBRE", Institut de Botanique, 163, rue A. Broussonet, 34000 Montpellier, France, Tel. 33 6763 1793 x 120, FAX 33 6704 1870.

Ecological Summer Summit '96. This conference will be held 19-23 August in Copenhagen, Denmark. The Summit will include the 10th International Conference on Ecological Modelling, the International Conference on Ecological Engineering, the 2nd International Symposium on Ecosystem Health, and the European Meeting on Ecological Economics, and is arranged by co-workers of the Royal Danish School of Pharmacy together with their collaborators on a newly established Masters education in Environmental Chemistry. Some sessions that should be especially interesting to tropical biologists will be sessions on Agroforestry, Ecosystem Restoration, Ecosystem Health and Developing Countries, Relations to Politicians, Managers, and NGO's, Biodiversity and Ecosystem Health, and Ruralisation: A New Strategy for Sustainable Development. Proposals are welcome for additional postgraduate courses and scientific workshops. Questions and proposals should be addressed to: ECO-Summit '96 Satellite Meetings, att.: Dr. S. N. Nielson, Royal Danish School of Pharmacy, Dept. of Analytical and Pharmaceutical Chemistry, Environmental Chemistry Section, DK-2100 Copenhagen m, DENMARK, Tel. 45 35 37 08 50 x 455, FAX 45 35 37 57 44, Email:

snors@charon.dfh.dk. Information on the Summit: Gill Spear, ECO-Summit '96 Secretariat, Elsevier Science Ltd., Conference Dept., The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K.



### LATIN AMERICA

Articles About the Birds of Costa Rica, by Ana Beatriz Azofeifa, is a new (April 1995) bilingual (Spanish-English), bibliography of 236 articles about the birds of Costa Rica published in the ornithological journals The Auk, The Condor, and The Wilson Bulletin from 1932-1993. References are arranged in chronological and taxonomic order. This list is a valuable accompaniment to digital bibliographic data bases that only include recent years. Available for \$7.00 (US) (includes postage; make check payable to Organization for Tropical Studies) from: Organization for Tropical Studies, Interlink 341, PO Box 02-5635, Miami, FL 33152).—Bruce Young, Co-Director, La Selva Biological Station.

Latin American Research Libraries in Natural History: A Survey. The Council of Biology Editors announces the second edition (1994) of this publication, compiled by Neal Woodman, Marion A. Jenkinson, and Mercedes S. Foster. The survey was carried out to facilitate the exchange and donation of publications among scientific institutions in the United States, Middle and South America, and the Caribbean. The second edition of the survey contains entries describing 241 libraries in 29 countries, including the name of a contact person, and an institutional address, fax, and telephone number. It also provides information about library holdings and usage, research activities, and areas of interest for literature donations. ISBN: 0-935868-74-7. vi + 260 pp.— Order from CBE, P.O. Box 109069, Chicago, IL 60610. \$24.95(US) -nonmembers; \$19.95-CBE members, bookstores, and other re-sellers; \$3.50 shipping and handling per order.—Mercedes Foster, U.S. National Museum.

Ecotono. The Center for Conservation Biology's Program in Tropical Studies publishes Ecotono, a publication in Spanish that focuses on conservation projects of the CCB and other organizations. To be placed on the mailing list, contact: Centro para la Biología de la Conservación, Depto. de Ciencias Biológicas, Universidad de Stanford, Stanford, CA 94305-5020. Tel. 415-723-5924, FAX 415-723-5920, Email: CONBIO@igc.org.

Innovation and Partnership: Working with Natural Resource Management, Gender and Local Communities in the Tropics. The 44th Annual Latin American conference was held in Gainesville 30

March-1 April 1995, sponsored by the MERGE (Managing the Environment and Resources with Gender Emphasis) project of the Tropical Conservation and Development (TCD) program. There were 117 registered participants, including 44 from Latin America. Participants represented conservation organizations, government agencies, universities, donors, and field projects from twelve countries: Brazil, Peru, Ecuador, Guatemala, Dominican Republic, Belize, Bolivia, Chile, the United Kingdom, and Tanzania.

Rather than an academic conference organized around presentation of formal papers, the conference format included a variety of sessions that provided opportunities for hearing the many different voices present at the two-day conference, followed by a day-long series of methodological workshops. Participants spoke about their attempts to integrate gender, community participation, and natural resource management. A second focus was on experiences with partnerships or coalitions of organizations of different types working together in the same field site. The three themes of integration, innovation, and collaboration were addressed from many different perspectives during the three days of the conference and workshops. Although not new concepts, their implementation in field level projects addressing gender, local community needs, and natural resource management strategies are still relatively rare. The conference permitted an excellent opportunity for people from different countries to learn from one another's experiences. As part of the MERGE program, the conference was preceded and followed by a planning retreat for University of Florida faculty, students, and representatives from partner organizations in Ecuador, Peru and Brazil. With support from the MacArthur Foundation and USAID, MERGE is collaborating in several sites in these countries to strengthen the understanding of gender issues in natural resource management projects, and to develop and test gender analysis research and training materials.— Marianne C. Schmink, Tropical Conservation and Development Program, Center for Latin American Studies, 304 Grinter Hall, PO Box 115531, Gainesville, FL 32611-5531. Email: schmink@tcd.ufl.edu



### NORTH AMERICA

Tropical Forest Remnants: Ecology, Management and Conservation of Fragmented Communities. This symposium will be held at the Ecological Society of America Annual Meeting in Snowbird, Utah, 30 June – 3 August 1995. Fourteen speakers from the Neotropics, Australasia, Southeast Asia and Madagascar will present talks on forest fragmentation and management. Information: Dr. William F. Laurance, CSIRO Tropical Forest Research Center, P.O. Box 780, Atherton, Qld 4883, Australia; Fax: 61-70-913245; Email: bill.laurance@tfrc.csiro.au.

Canopy Workshop Report. A detailed pre-workshop booklet containing position papers and a final report with session transcripts is available for the workshop, Designing the Forest Canopy Researcher's Workbench: Computer Tools for the 21st Century, held at The Evergreen State College on 15-18 March 1995 (see March 1995 Tropinet for details). Send a stamped (U.S. \$2.50), self-addressed 9x11 envelope to Magda Berger, Final Report, c/o Nalini Nadkarni, TESC, Lab II, Olympia, WA 98105.

Sixth International Symposium on Society and Resource Management. 18-23 May at Pennsylvania State University, the symposium will focus on better integration of social and natural resource sciences in addressing resource and environmental issues. A commitment to the role of social perspectives in policy development and managing natural resources will be emphasized. Those interested in presenting a paper or poster or organizing a roundtable discussion for the symposium should submit an abstract of no longer than two doublespaced, typewritten pages by 1 November 1995 to: A.E. Luloff, Program Co-Chair, Department of Agricultural Economics and Rural Sociology, 111 Armsby Building, The Pennsylvania State University, University Park, PA 168802.

### **Book Reviews**

**Expedition Field Techniques: Small** Mammais (excluding bats), A. Barnett and J. Dutton. 1995. Expedition Advisory Center, London, England, viii (not paginated) +126 pp. ISBN 0-907649-68-8. Price (paper), \$8.50 (US). This is an interesting small book intended as an overview of field techniques for the study of small mammals. Emphasis is placed clearly on techniques of specimen collection and preparation, but the authors do a fine job of introducing the reader to variety of other techniques for studying mammals in the field (e.g., tracking techniques, scat and pellet analyses, dental impressions, ultra-sonic detectors, nest and burrow analysis, etc.). Although the book is written from a British perspective (both authors are Fellows of the Royal Geographical Society), the material in the book is applicable to the international community. I found the last two sections of the book particularly noteworthy; Section Fourteen contains a rich collection of references gleaned from the international literature and Section Fifteen provides a continent-by-continent recommended reading list that will serve as an introduction the literature on regional faunal studies.

This book represents the authors' second edition. The book, in its present form, will prove to be an especially useful guide for

newcomers to mammal field work. In addition, experienced field mammalogists will like this book because of its convenient summary of techniques and ample references (> 500 individual citations from the literature). If the authors plan future editions of this book, I would suggest several modifications. First, I suggest adding a section on laws and regulations pertaining to specimen collecting (and humane treatment of animals) in one of the introductory sections; unfortunately, there is but one brief discussion about export licenses, customs and CITES and this occurs very late (in Section Eleven). Second, Section Three would benefit from an expanded discussion and survey of specimen preparation techniques, especially, the inclusion of the skin-plusskeleton preparation. — John C. Hafner, Moore Laboratory of Zoology and Department of Biology, Occidental College, Los Angeles, CA 90041.

# **FIELD STATION PROFILE**

New Research Sites in the Peruvian Amazon. Project Amazonas, Inc., is seeking inquiries from researchers interested in working at two new sites (Madre Selva and Paucarillo Forest Preserve) located approximately 125 air kilometers from Iquitos, Peru. Both sites are located on the Río Oroza, a blackwater tributary on the south side of the Amazon and are accessible only by boat. A variety of habitats are available for study at both sites, including seasonally inundated (varzea) forest, upland (terra firme) forest, swamps and forest creeks, blackwater river, and a series of canals and lagoons connecting the Río Oroza to the Amazon itself. In the vicinity of Madre Selva a variety of upland successional habitats of differing ages are available for study. At the Paucarillo Forest Reserve, primary forest extends to the southern bank of the river itself, the north bank is entirely varzea forest. In addition to ecological research, there are opportunities for ethnobotanical, resource management, and sociological investigations in cooperation with the indigenous Yagua peoples.

The flora and fauna at both sites is very rich, with the diversity of habitats contributing to particularly rich bird, fish, herp and butterfly faunas, and to understory plant communities rich in palms, rubes, melastomes, aroids, and broad-leaved monocots. The primary forest itself is quite tall, with good concentrations of very large trees. Recent hunting pressure means that mammals and large birds are wary, but monkeys, toucans, and macaws of several species are regularly encountered and jaguars are frequently heard, particularly at the Paucarillo Forest Preserve.

The Madre Selva site is located between the Yagua Indian villages of Comendancia and Santa Ursula and encompasses 200 ha of secondary and primary forest, with more land being acquired as funding becomes available. South of the station, primary forest stretches unbroken to the Brazilian fron-

tier (approximately 125 km). Facilities at the site include a floating station/trading post with housing for 6-8 persons, kitchen with freezer, and gas stove, lab space and generator-supplied electricity. Full bathroom facilities (with running water) are available. The Paucarillo Forest Reserve site is 500 ha in size and is located upriver from the village of Santa Ursula. No further settlements of more than 2-3 families exist from this site to the headwaters of the river. Paucarillo has a main building with accommodations for 8-10 persons, a separate kitchen building and three free-standing open-sided shelters. Construction is underway on bathroom/ shower facilities with associated water tower and pump. Both sites have rudimentary trail systems and a canopy platform and walkway are tentatively planned for the Paucarillo Forest Preserve at some time in the near future.

Access to both sites is by boat from lquitos, Peru. The trip downriver to the Río Oroza takes from 3-6 hours by relatively fast boat, with the return taking 1-2 additional hours. Daily flights are available from lquitos to Lima, and a direct flight from lquitos to Miami (4 hours) is available every Saturday. For further details on research opportunities, facilities, logistics, rates and reservations, contact Devon Graham, Department of Biology, PO Box 249118, Coral Gables, Miami, FL, USA 33124 (Email: jg7ge65m@umiami.ir.miami.edu).

### **ANNOUNCEMENTS**

Meetings and Events Items marked \* are new in this issue. 1995

\*VII Congresso da Sociedade Brasileira de Primatología. Paraíba, Brasil, 23-28 July. Information: Carmen Alonso, Depto. de Sistemática e Ecología-CCEN, Univ. Federal de Paraíba, Campus Universitario, 58059-900 Joao Pessoa, Paraíba, Brasil. FAX 083-224-3688.

The Transdisciplinary Nature of Ecology. Ecological Society of America 80th Annual Meeting. Snowbird, Utah USA, 30 July–3 August. Information: Jill Baron, ESA Program Chair, National Biological Survey, Natural Resource Ecology Laboratory, Colorado State University, Ft. Collins CO 80523 USA. Tel: 303-491-1968; Email: jill@nrel.colostate.edu.

Research on Environmentally Sound Forest Practices to Sustain Tropical High Forests. Kotka, Finland, 3–6 August. Information: Rudolf Heinrich, Chief, Forest Harvesting and Transport Branch, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy. FAX 3-580-62-53-08.

V International Ornithological Congress. Asunción, Paraguay, 5–11 August. Information: Nancy Lopez de Kochalka, Comité Organizador del V CON, Museo Nacional de Historia Natural del Paraguay, Sucursal 19, Campus, Central XI, Paraguay. Tel: 595-21-505075.

Association for Tropical Biology Annual Meeting. San Diego, California, 6–10 August. Information: Dr. Steven Bullock, ATB Annual Meeting Chair, Dpto. de Ecología, CICESE, Apartado Postal 2732, Ensenada 22800, Baja California, Mexico. Email: sbullock@cicese.mx; FAX 52-617-45154.

International Union of Forestry Research Organizations, XX IUFRO World Congress. Tampere, Finland, 6–12 August. Information: IUFRO-95 Congress Secretariat, Finnish Forest Research Institute, Unioninkatu 40A, SF-00170 Helsinki, Finland.

Third International Caribbean Conference of Entomology. San José, Costa Rica, 6–10 August. Information: Russell Mizell, University of Florida, Agricultural Research Center, Rt. 4, Box 4092, Monticello, FL 32344, USA. Tel: 904-997-2596; Fax: 904-997-8178; Email: rfm@gnv.ifas.ufl.edu.

14th International Ethological Conference. Honolulu, Hawaii, USA, 10-17 August. Information: Conference Secretariat, 800 NW Loop 410, Suite 150-S, San Antonio, TX 78216- 5674, USA.

The Symposium on Lake Tanganyika Research, Kuipio, Finland. 11–15 September. Information: Ms. Marjut Hilska, University of Kuopio, CTD, UniCongresss, PO Box 1627, 70211 Kupio, Finland.

Second International Rubiaceae Conference, Meise (Brussels), Belgium. 12–14 September. Information: Dr. E. Robbrecht, Conference Secreatriat, National Botanic Garden, Domein van Bouchout, B-1860 Meise, Belgium.

Avances en la Producción de Semillas Forestales en América Latina, Managua, Nicaragua. 16-20 October. Information: Rodolfo Salazar, Coorinador del Simposio, CATIE, Turriabla, Costa Rica. Tel. 506-556-6431, FAX 506-556-1533.

III Latin American Congress of Ecology. 22–28 October, Mérida, Venezuela. Information: Dr. Jaime E. Péfaur, Secretario Ejecutivo, III Congreso Latinamericano de Ecología, Facultad de Ciencias, Universidad de los Andes, Mérida, Venezuela 5101.

Fire Management and Natural Resource Development in Latin America and the Caribbean. Guadalajara, Mexico, 5–11 November. Information: A. Koonce, Prescribed Fire Research, USDA Forest Service, 4955 Canyon Crest Drive, Riverside, CA 92507-6071, USA. FAX 909-276-6426.

### 1996

World Heritage Tropical Forests: Science for Better Conservation Management Conference. Cairns, North Queeensland, Australia, 2–6 September. Information: Conference Secretariat: Tel. 07-369-0477, FAX 07-369-1512.

## Courses

New udergraduate field course in tropical ecology and conservation. Beginning 1996 the Council on International Educational Exchange will be offering two semester length field programs for undergraduates in tropical ecology and conservation. The courses will travel throughout Costa Rica but will be housed at the Estación Biológica Monteverde. Courses begin 1 February and 22 August, run 15 weeks and offer the following courses: Tropical Diversity and Conservation (4 credits), Tropical Community Ecology (4 credits), Independent Research in Tropical Biology/ Conservation (3 credits), Spanish (3 levels offered; 3 credits) and Humans in the Tropics (2 credits). Programs are open to undergraduates from all colleges and universities who have completed an Introductory Biology sequence and one of the following electives: Ecology, Evolution or Behavior. Each course is limited to 25 students. Students should enjoy hiking and camping. DEADLINES FOR ENROLLMENT: Spring semester: November 1, 1995; Fall semester: April 1, 1996. Information: Catharine Scruggs, CIEE Latin American Programs, 205 East 42nd St., New York, NY 10017-5706; FAX 212-972-3231; Email: CScruggs@CIEE.org.

Geographic Information Systems. The Office of Remote Sensing of the Instituto Geográfico Augustín Codazzi, Colombia, announces the following courses: Geomática Aplicada al Estudio de las Amenazas Naturales (4 September—24 November), Geomática Aplicada a la Planificació y Manejo de Cuencas Hidrográficas (4 September—24 November), Cartografía Automatizada (14