

SEMINARS - ANCON CONFERENCE ROOM

Tuesday, March 14, noon seminar speaker will be STEVEN VOGEL, Duke University.

Subtle and Supple: the Re-emergence of Comparative Biomechanics.

Abstract: In the last two decades, the application of biomechanical theory has given new and sustained vigour to the classical fields of comparative anatomy and functional morphology. By considering the characteristics and constraints of such physical phenomena as the properties of materials and the nature of fluid flow, biomechanics has generated novel and enlightening interpretations of biological design as fashioned by natural selection. This talk draws upon both botanical and zoological examples to illustrate the varied nature of biomechanical analyses and the consequent implications for structure and function of biological systems. As a means for understanding morphological design and its adaptive consequences, comparative biomechanics is rapidly emerging as a new and exciting subdiscipline of organismal biology.

NEXT WEEK

Tuesday, March 21, noon seminar speakers will be SCOTT WING, ROBYN BURNHAM, SI National Museum of Natural History, and GEOFFREY PARKER, SI Environmental Research Center.

Reconstruction of Ancient and Living Forest from Leaf Litter.

ARRIVING

March 11 - 15, BERT DRAKE, SI Environmental Research Center, to meet with L. Ziska on BCI.

March 11 - April 11, MAKOTO KATO, Kyoto University, Japan, to study the behavioral ecology of highly eusocial bees.

March 12 - 16, TOM McCANCE, SI Director of Development and Deputy Assistant Secretary for External Affairs, and his wife to visit STRI.

March 12, JAMES AND ELENA KARR, Virginia Polytechnic Institute and State University, to continue bird study on Pipeline Road.

March 13, ROBYN BURNHAM, SI National Museum of Natural History, and GEOFFREY PARKER, SI Environmental Research Center, to study the representation of forest structure and composition in the leaf litter on BCI.

March 12 - 25, THOMAS BURTON, Michigan State University, to do research on primary and secondary production processes in streams.

March 17 - 27, STEVEN MULKEY, University of Missouri, to study the ecology of leaf response to atmospheric drought in tropical forest understory herbs.

March 17 - 10, DANIEL WEENY, PETER PHRALL and LYANNE TENNANT, O.T.S. course participants, to visit STRI.

DEPARTING

March 15 - 17, ERIC FISCHER, to Washington, D.C. on official business.

March 17 - 26, RAINELDO URRIOLOA, to Galapagos to attend the International Workshop on Research in Protected Areas.

REMINDER

The scientific staff meeting has been postponed until March 21.

NEW PUBLICATIONS BY STRI STAFF, FELLOWS AND RESEARCH ASSOCIATES

Aide, T. Michael. 1988. Herbivory as a selective agent on the timing of leaf production in a tropical understory community. *Nature* 336 (6199): 574 - 575.

Siemens, Alfred H., Richard J. Hebda, Mario Navarrete H., Dolores R. Piperno, Julie K. Stein, and Manuel G. Zola B. 1988. Evidence for a cultivar and a chronology from patterned wetlands in central Veracruz, Mexico. *Science* 242: 105 - 107.

ANNUAL LEAVE

Mirna Fernandez, March 7 - 17
Elena Lombardo, March 16 - 31
Maria Morello, March 20 - 31
Luis Polanco, March 27 - 31

INTERNATIONAL WORKSHOP ON RESEARCH IN PROTECTED AREAS

This workshop will take place in Galapagos, Ecuador, from March 19-25, sponsored by the Project FAO/PNUMA on Management of Wild Areas, Protected Areas and Wildlife in Latin America and the Caribbean. ROGELIO SAMUDIO from INRENARE will represent Panama, and RAINELDO URRIOLOA from STRI will participate as an observer.

AWARD

GEORGINA DE ALBA received an award of achievement for the pamphlet "Opportunities for Research in the Tropics" from the Washington, D.C. Chapter of the Society for Technical Communication.

FROM THE SI CREDIT UNIONShare Withdrawal Policy

Members are permitted three withdrawals per quarter with no penalty. If a fourth withdrawal is requested, there will be a \$25 fee imposed for excessive withdrawals. If a member wishes to make additional withdrawals within the quarter, beyond the limit stated above, he/she must submit the request for withdrawal in writing no less than 30 days in advance; there is no fee for this activity.

FOUND

A hand refractometer, SI tag No. 153187, in STRI vehicle. Please claim from Education Office.

LIBRARY NEWS

New Book List

BUTTERFLIES OF THE NEOTROPICAL REGION, pt.4. Nymphalidae Partim (B. D'Abbrera, editor, 1987) FQL542.D116 PT.4 STRI

BUTTERFLIES OF THE ORIENTAL REGION, pt.2. Nymphalidae, Satyridae & Amathusidae (B. D'Abbrera, 1985) FQL556.A1D116 PT.2 STRI

THE CARE OF REPTILES AND AMPHIBIANS IN CAPTIVITY (C. Mattison, 1987) SF407.A45M38 1987

COLLECTING, PROCESSING, AND GERMINATING SEEDS OF WILDLAND PLANTS (JA Young & CG Young, 1986) SB439.28.Y68 1986X STRI

ENERGY FOR SUBSISTENCE (M. Haswell, 1985) S494.5.E5H35 1985 STRI

ESPECIES DEL GENERO ANCHOVIELLA DE VENEZUELA (PISCES, ENGRAULIDAE) (F. Cervigon, 1987) QL638.E55C419 1987 STRI

EVOLUTION AND PALAEOBIOLOGY OF LAND PLANTS (BA Thomas & RA Spicer, 1987) QE980.T454 1987 STRI

FOREST SOILS AND NUTRIENT CYCLES (PM Attiwill & GW Leeper, 1987) SD390.3.A8A88 1987X STRI

THE HOLD LIFE HAS: COCA AND THE CULTURAL IDENTITY IN AN ANDEAN COMMUNITY (CJ Allen, 1988) F2230.2.K4A45 1988X STRI

LARVAL GROWTH (AM Wenner, editor, 1985) QL444.M33L37 1985X STRI

THE MARINE ENVIRONMENT OF THE U.S. ATLANTIC CONTINENTAL SLOPE AND RISE (JD Milliman & WR Wright, editors, 1987) GC511.M28 1987X STRI

THE NATURAL HISTORY OF WHALES & DOLPHINS (PGH Evans, 1987) QL737.C4E93 1987X STRI

NUTRIENT REQUIREMENTS OF DOGS (Subcommittee on Dog Nutrition, Committee on Animal Nutrition, Board on Agriculture, National Research Council, 1985) SF427.4.N976 1985

PERUVIAN PREHISTORY: AN OVERVIEW OF PRE-INCA AND INCA SOCIETY (RW Keatinge, editor, 1988) F3429.P453 1988X STRI

POSSUMS AND OPOSSUMS: STUDIES IN EVOLUTION (M. Archer, 1987) QL737.M3P85 1987 STRI

PROBLEMATIC FOSSIL TAXA (A. Hoffman & MH Nitecki, 1986) QE899.P76 1986X STRI

RECENT CLIMATIC CHANGE: A REGIONAL APPROACH (S. Gregory, editor, 1988) QC981.8.C5R4 1988X STRI

REPRODUCTION IN MAMMALS (CR Austin & RV Short, editors, 1982) QP251.A935 1982 STRI

RESPONSE TO OIL AND CHEMICAL MARINE POLLUTION (D. Cormack, 1983) GC1085.C67 1983X STRI

TIDAL FLAT ESTUARIES: SIMULATION AND ANALYSIS OF THE EMS ESTUARY (JW Baretta & P. Ruardij, editors, 1988) QH149.T53 1988X STRI

TROPICAL HYDROLOGY (World Meteorological Organization, 1987) GB840.T85 1987 STRI



VISIT ITINERARY

DRS. JOHN ENDLER and TRACY McLELLAN, University of California at Santa Barbara, will visit STRI from March 22 - April 2. Anyone wishing to consult with Drs. Endler or McLellan, please check itinerary below and call the Office of Education and Conservation to make an appointment.

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| March 22, Wednesday | - | Evening Arrival (Jackson/Knowlton pickup). Overnight in Panama City, Marriot Ceasar Palace Hotel. |
| March 23, Thursday | - | a.m. Tivoli. Noon seminar. p.m. Naos. Informal reception before evening Ancon seminar. Overnight in Gamboa (Rand). |
| March 24, Friday | - | Early boat to BCI - Dudley (Rand). |
| March 25, Saturday | - | Gamboa. Overnight in Gamboa (Rand/Zeh). |
| March 26, Sunday | - | On BCI. |
| March 27, Monday | - | Late boat Jacana to Gamboa. Overnight in Gamboa. |
| March 28, Tuesday | - | a.m. Open. Noon seminar. p.m. Open. Evening seminar. Overnight in Gamboa (Zeh/Rand). |
| March 29, Wednesday | - | Early boat to BCI (Rand). |
| March 30-31, Thurs-Fri | - | On BCI. |
| April 1, Saturday | - | On BCI. Leave on afternoon boat. Overnight Gamboa. |
| April 2, Sunday | - | Early departure (Rand). |