

SEMINARS - ANCON CONFERENCE ROOM

The luncheon talk on June 23 will be given by PAUL WELDON from Texas A & M University. His title:

The Chemical Recognition of Predators.

"Experiments involving the detection of vertebrate predators by chemical clues in fishes, reptiles and mammals are described. Chemicals responsible for the elicitation of defenses have been isolated and, in some cases, characterized."

NEXT WEEK:

The luncheon talk on June 30 will be given by ROBERT DUDLEY from the University of Cambridge. His title:

Kinematics, Aerodynamics, and Energetics of Insects in Flight.

ARRIVALS & DEPARTURES

June 21 - Departing, BARBARA CUSATTI for Washington, D.C. for a one-week training course.

June 22 - Arriving, DAVID OLSON, from the University of California at Davis, to study the effects of elevation on ant fauna and other litter organisms of tropical forests. He will be working in the area of Fortuna.

June 22 - Arriving, GISELLE MORA, from the University of Florida at Gainesville, on a Noyes Fellowship to study exclusive male parental care in the harvestmen (spiders). She will be on BCI for 6 months.

June 22 - Arriving, PHILLIP REISS, director of the SI Office of Design and Construction, on a 3-day visit. He will be here to consult on the advance of the construction projects at STRI, and review construction problems.

June 22 - Departing, LEONOR MOTTA, to New York on official business for two days.

SCIENTIFIC STAFF MEETING

The scientific staff meeting for this month will be held on Tuesday, June 23rd, at 9:30 am in the Ancon Conference Room.

ON LEAVE

June 22 - Sept 22: LORENA GATES will be in the U.S. for 3 months.

1987 PUBLICATIONS BY STRI STAFF, FELLOWS & RESEARCH ASSOCIATES

Moynihan, Martin. 1987. "Social Relations Among Halcyon Kingfishers in Senegal." *Revue D'Ecologie* 42(2): 145-166.

Roubik, David W. 1987. "Notes on the Biology of Anthrophorid Bee *Tetrapedia* and the Mite *Chaetodactylus panamensis* Baker, Roubik and Delfinado-Baker (Acari: Chaetodactylidae). *International Journal of Acarology* 13(1): 75-76.

CONDECORACION VASCO NUNEZ DE BALBOA

Mediante el Decreto 58 del 20 de marzo de 1987 fue otorgada la Orden Nacional de "Vasco Nuñez de Balboa" al Director de STRI, Dr. Ira Rubinoff. La ceremonia se llevó a cabo el 18 de junio en el despacho del Ministro de Salud, Dr. Francisco Sanchez Cárdenas. Esta condecoración fue solicitada al Señor Presidente de la República por distinguidas autoridades científicas de la República de Panamá, entre las cuales se encuentran los dos rectores de nuestras máximas casas de estudio (U. de Panamá y U. Sta. Maria la Antigua) y otras autoridades locales, por "una excelente labor de investigación...convirtiendo dicho instituto en el más reputado centro de investigación marina en el trópico; contribuyendo así con genuino interés al establecimiento de importantes programas de becas, bolsas de viaje y de trabajo para jóvenes científicos..."

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In a private award ceremony on June 18, in the office of the Panamanian Health Minister, STRI director Dr. Ira Rubinoff received the National Order of "Vasco Nunez de Balboa" for his "excellent research work...converting STRI into the most well-known center of marine research in the tropics; contributing thus with genuine interest in the establishment of important fellowship programs, travel grants, and work for young Latin American scientists..." The award of this prestigious medal was recommended by distinguished Panamanian authorities; the decree was signed by the President of Panamá on March 20, 1987.

NEW BABY GIRL

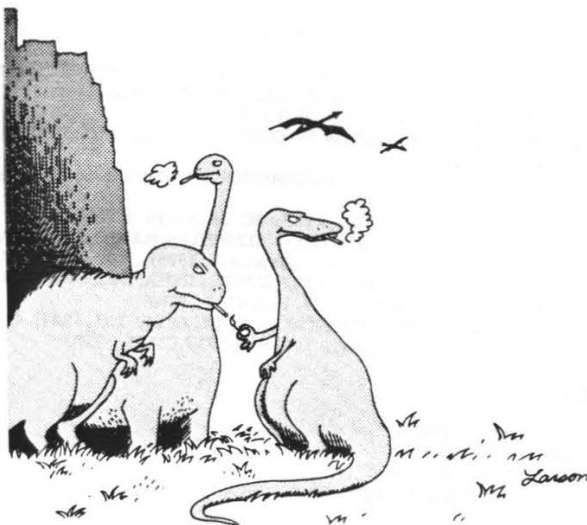
Audrey Smith gave birth to a healthy baby girl on June 8 at 10:25 a.m. Her name is Vanessa Nicole and she weighed 7.2 lbs. The baby pool was won by Nancy Knowlton, with the closest bet.

## SEMINAR SCHEDULE

The schedule of the STRI scientific noon seminars is listed below for your information.

If you would like to give a seminar after the dates listed, we suggest you sign up as soon as possible. Persons interested in giving seminars before August 25, please consult Neal Smith or Vielka Vergel.

- June 23 Paul Weldon  
Texas A&M  
"The chemical recognition of predators"
- June 30 Robert Dudley,  
Postdoc - STRI  
"Kinematics, Aerodynamics and Energetics of insects in flight"
- July 6 Special Monday Seminar - David C. Duffy  
Universidad Nacional de Heredia, Costa Rica  
Subject: 3000 kilometers of Chilean Coast.  
Abstract: An Analysis of the ecology of Humbolt and Magellanic Penguins  
in and outside supposed sympatry.
- July 7 Robert Warner  
Univ. of California, Santa Barbara  
"The roles of mate choice, resource assessment, and traditionality  
in the mating system of a coral reef fish"
- July 14 Michael J. Ryan  
The University of Texas at Austin  
"Sexual selection for alleles that determine body size and the evolution  
of mating asymmetries in swordtails"
- July 15 Hermann Riemert, Phillips Univ. at Marburg, West Germany  
"Spitsbergen and South Georgia - the ecological comparison between  
the Arctic and the Antarctic"
- July 21 *Reserved*
- July 28 Randy Olson  
Harbor Branch, Oceanographic Institution Inc.  
"Do larval processes control de population biology of the crown-of-thorns  
starfish Acanthaster planci?"
- August 4 *Reserved*
- August 11 Marie Dominique Irvine  
Stanford University, California  
"A regional look at resource managements by the Runa Indians of the  
Ecuadorian Amazon"
- Aug. 18 Sue Williams - STRI  
"A Taste of Malaysia: A quick trip on the east coast of peninsula Malaysia"
- Aug. 25 *Reserved*



The real reason dinosaurs became extinct

## LIBRARY NEWS

### New books:

- ANNOTATED BIBLIOGRAPHY OF THE LAND AND FRESH-WATER REPTILES OF SOUTH AMERICA, 1758-1975 (P.E. Vanzolini, 1977-1978) 2 volumes. Z7996.R4V28 STRIREF
- APE LANGUAGE: FROM CONDITIONED RESPONSE TO SYMBOL (E. Sue Savage-Rumbaugh, 1986) QL737.P96S25 STRI
- APPROPRIATE TECHNOLOGY SOURCEBOOK: A GUIDE TO PRACTICAL BOOKS FOR VILLAGE AND SMALL COMMUNITY TECHNOLOGY (Ken Darrow and Mike Saxenian, 1986) Rev. and enl. ed. T49.5.D22 STRIREF
- BEE GENETICS AND BREEDING (Thomas E. Rinderer, editor, 1986) SF531.5.B44 STRI
- BIOLOGY: EVOLUTION, DIVERSITY, AND THE ENVIRONMENT (Sylvia S. Mader, 1985) QH308.2.M23 STRI
- BLIND WATCHMAKER (Richard Dawkins, 1986) QH366.2.D37 STRI
- CATALOGUE OF THE BIRDS IN THE MUSEUM OF THE HON. EAST-INDIA COMPANY. (East India Company (English) Museum, London, 1854-58) 2 volumes QL677.2.E13 STRI
- CATALOGUE OF THE LEPIDOPTEROUS INSECTS IN THE MUSEUM OF THE HON. EAST-INDIA COMPANY (Thomas Horsfield and Frederick Moore, 1857-59) 2 volumes QL545.E13 STRI
- CELLULAR AND MOLECULAR BIOLOGY OF PLANT STRESS: PROCEEDINGS OF THE ARCO PLANT CELL INSTITUTE-UCLA SYMPOSIUM HELD AT KEYSTONE, COLORADO, APRIL 15-21, 1984. (Joe L. Key and Tsune Kosuge, editors, 1985) QK725.C394 STRI
- CHEMISTRY OF PLANT HORMONES (Nobutaka Takahashi, editor, 1986) QK731.C516 STRI
- COASTAL AND ESTUARINE SEDIMENT DYNAMICS (K.R. Dyer, 1986) GC380.15.D94 STRI
- COCONUT: TREE OF LIFE (J.G. Ohler, 1984) qSB401.C6035 STRI
- CONCEPTS IN MARINE POLLUTION MEASUREMENTS (Harris H. White, editor, 1984) GC1085.C74 STRI
- CRC HANDBOOK OF CENSUS METHODS FOR TERRESTRIAL VERTEBRATES (David E. Davis, editor, 1982) QL752.C7 STRI
- DEFINING BIOLOGY: LECTURES FROM THE 1890s (Jane Maienschein, editor, 1986) QH311.D4 STRI
- EAGLE'S NEST: NATURAL HISTORY AND AMERICAN IDEAS, 1812-1842. (Charlotte M. Porter, 1986) QH104.P67 STRI
- ECOLOGICAL SYSTEMS OF THE GEOBIOSPHERE (Heinrich Walter, 1985) QH540.3.W3513 STRI
- ECOLOGY OF PROTOZOA: THE BIOLOGY OF FREE-LIVING PHAGOTROPHIC PROTISTS (Tom Fenchel, 1987) QL366.F46 STRI
- ECOLOGY OF ESTUARIES (Michael J. Kennish, 1986) QH541.5.E8K46 STRI
- ENVIRONMENTAL IMPACT OF WATER RESOURCES PROJECTS (Larry Canter, 1985) TD195.H93C35 STRI
- EVOLUTION IN THE GALAPAGOS ISLANDS (R.J. Berry, editor, 1984) QH198.G3E92 STRI
- EVOLUTIONARY RELATIONSHIPS, OSTEOLOGY, AND ZOOGEOGRAPHY OF LEPTODACTYLOID FROGS (John D. Lynch, 1971) QL668.EZL94 STRI
- FACTS ON FILE DICTIONARY OF SCIENCE (E.B. Uvarov and Alan Isaacs, 1986) 6th edition Q123.U8 STRIREF
- FALL OF A SPARROW (Salim Ali, 1985) QL31.A398 STRI
- FUR SEALS: MATERNAL STRATEGIES ON LAND AND AT SEA (Roger L. Gentry and Gerald L. Kooyman, editors, 1986) QL737.P63F87 STRI
- GREENHOUSE EFFECT, CLIMATIC CHANGE, AND ECOSYSTEMS (Bert Bolin et al. editors, 1986) QC912.3.G73 STRI
- GUÍA DE LOS MAMÍFEROS DE MÉXICO: REFERENCIAS HASTA 1983 (Jose Ramirez-Pulido... et al editors, 1986) QL722.G94 STRI
- HANDBOOK OF REPTILES AND AMPHIBIANS OF FLORIDA (Ray E. Ashton and Patricia Sawyer Ashton, 1985) QL653.F6A84 STRI
- HAWAIIAN REEF ANIMALS (Edmund S. Hobson and E.H. Chave, 1972) qQL636.5.H3H62 STRI
- HERPETOLOGY OF BRAZIL (Johann Baptist von Spix, 1811) Facsimile reprint. of three classic monographs on the herpetology of Brazil, 1824. QL657.B6S76 1824a STRI
- INVESTIGACIONES ETNOHISTÓRICAS Y ARQUEOLÓGICAS EN EL ÁREA GUANE (Jorge Morales G and Gilberto Cadavid, 1984) F2269.1.S26M82 STRI
- JACKKNIFE, THE BOOTSTRAP, AND OTHER RESAMPLING PLANS (Bradley Efron, 1982) QA276.8.E375 STRI
- LEPIDOPTERA-CHESSHUEKRYLYE (M.I. Kuznetsov, 1967) QL555.R9K97 STRI
- LISTA ANOTADA DE LOS MICROLEPIDOPTEROS DE CUBA (Pastor Alayo Dalmau and Eduvigis Valdes A., 1982) QL553.C9A32 STRI
- LIVING TOGETHER: THE BIOLOGY OF ANIMAL PARASITISM (William Trager, 1986) QL757.T67
- MALAYSIAN PARASITES (J.R. Audy and W.W. MacDonald, editors, 1954-1960) QL483.M4M23 STRI 3 volumes
- MANUAL DE MÉTODOS PARA ESTUDIOS BIOLÓGICOS DE POPULACIONES DE PEIXES: REPRODUÇÃO E CRESCIMENTO (A.E.A. de M. Vazzoler, 1982) SH165.V39 STRI
- MARINE FISHES: CHEMICAL COMPOSITION AND PROCESSING PROPERTIES (V.P. Bykov, 1984) SH283.M33 STRI
- MICROCOSMOS: FOUR BILLION YEARS OF EVOLUTION FROM OUR MICROBIAL ANCESTORS (Lynn Margulis and Dorian Sagan, 1986) QH371.M28 STRI
- NUERA ENCICLOPEDIA DE LA CIENCIA Y DE LA TÉCNICA. 8 volumes Q121.G74 S1986 STRIREF
- ORCHIDS FROM CURTIS'S BOTANICAL MAGAZINE (Samuel Sprunger editor, 1986) qSB409.3.073 STRI
- ORIGIN AND DOMESTICATION OF CULTIVATED PLANTS: SYMPOSIUM ORGANIZED BY CENTRO LINCEO INTERDISCIPLINARE DI SCIENZE MATEMATICHE E LORO APPLICAZIONI... (C. Barigozzi, 1985) GN799.A4073 STRI
- PACIFIC SEASHORES: A GUIDE TO INTERTIDAL ECOLOGY (Thomas Carefoot, 1977) QH95.3.C35 STRI
- PLANT ECOLOGY (Michael J. Crawley, editor, 1986) QK901.P57 STRI
- PLANT PHYSIOLOGY (Frank B. Salisbury and Cleon W. Ross, 1985) 3rd edition QK711.2.S23 STRI
- PLANTS IN DANGER: WHAT DO WE KNOW? (Stephen D. Davis et al. editors, 1986) QK86.A1P714 STRIREF
- PRACTICAL FLOW CYTOMETRY (Howard M. Shapiro, 1985) QH585.5.F56S48 STRI
- REDISCOVERY OF THE EARTH=LA RISCOPERTA DELLA TERRA (Stephen E. Dornik et al., editors, 1980) qQE26.2.F5713 STRI
- ROLE OF FRESHWATER OUTFLOW IN COASTAL MARINE ECOSYSTEMS (Stig Skreslet, editor, 1986) QH541.5.S3N37 STRI
- SCIENTIFIC AND TECHNICAL INFORMATION SOURCES (Ching-Chieh Chen, 1987) 2nd edition Z7401.C518 STRIREF
- STATE OF THE ENVIRONMENT 1985. HC 59.S7335 STRIREF
- TAXONOMIC ANALYSIS IN BIOLOGY: COMPUTERS, MODELS, AND DATABASES (Lois A. Abbott, Frank A. Bisby, and David J. Rogers, 1985) QH83.A197 STRI
- TERMITE FAUNA (ISOPTERA) OF WEST BENGAL, INDIA, THEIR RECOGNITION, BIOLOGY, AND ECOLOGY (P.K. Maiti, 1983) QL529.25.I4M23 STRI
- TROPICAL ECOLOGY AND PHYSICAL EDAPHOLOGY (R. Lal, 1987) S481.L34 STRI
- WORLD OF BATS (Nina Leen, 1969) qQL737.C5L48 STRI

### NEW JOURNALS

APPLIED SOLAR ENERGY  
ASIAN MARINE BIOLOGY  
EXPERIMENTAL MYCOLOGY  
JOURNAL OF PLANT GROWTH REGULATION