

## SEMINARS

### Tupper Center Auditorium

Tuesday, August 14, noon seminar speaker will be Yan Song, University of California, Berkeley.

*Foraminiferal biology: beyond the philately, the anecdotal, and the adhoc.*

#### Abstract:

I would like to share with the ecological biologist, especially the marine biologist this one foraminiferologist's view of the field, the perspectives I am facing in search of an integrative theme via which to place the foraminiferans in an updated context of evolutionary biology, i.e. the combined efforts of ecologists and paleobiologists. I will present some outlines from my dissertation research, on constructional and biomechanical aspects of such beautiful things as foraminifera. The biological implications and ramifications from these projects are indeed immense in both dimensions as well as in depth, but the message is as simple and clear as: Yes, there are higher reasons for life and its history on this earth, and basic physics is one highest place to search for fundamental reasons. I cordially invite the biological STRIers to comment and criticize my approach to the issue, both at the epiphenomenological and the epistemological levels.

#### NEXT WEEK

Tuesday, August 21, noon seminar speaker will be Norman Duke, STRI Oil Spill Project.

*The mangrove genus Avicennia: biogeographical insights and evolutionary inferences from analyses of morphology and allozymes.*

That evening at 6:30 p.m., Nancy Knowlton, will give the staff evening seminar.

### Taller de Dinámicas de Educación Ambiental No Formal



(Foto por Marcos Guerra)

De izquierda a derecha: Argelis Román y Mario Bernal, STRI; Daniel Holness, Parque Metropolitano; Gladys Valdés, INRENARE; Yolanda Jiménez, Parque Metropolitano; Marisol Dimas, INRENARE; Georgina de Alba, STRI; Cristina de Arcia, INRENARE.

El Taller de Dinámicas de Educación Ambiental para ambientes informales se programó como parte de las actividades de la Oficina de Educación y Conservación del Instituto Smithsonian para el Mes de los Recursos Naturales. Los objetivos del taller fueron—

- ◆ practicar y aprender técnicas entretenidas para enseñar conceptos y problemas ambientales,
- ◆ compartir experiencias y vivencias en educación ambiental,
- ◆ compartir materiales de educación ambiental.

El taller que tuvo lugar el 19 de julio en el Parque Metropolitano y en el Centro Tupper fue coordinado por Sandra Diamond Tissue y Argelis Román. Las actividades y dinámicas presentadas (tales como *Aprendiendo a Mirar, Venados, Obstáculos de las Tortugas, Arte de Adaptación*) fueron tomadas principalmente del Proyecto Wild, un programa elaborado por las Agencias de Pesca y Vida Silvestre y el Consejo de Educación Ambiental, de la región occidental de EEUU.

## PEOPLE

### Arrivals

- Andrew Brower, Cornell University, August 10, and his wife, Antonia Lant, August 14-October 10, to do molecular analysis of intraspecific phylogeny in mimetic *Heliconius* butterflies at Naos.
- Robert Stallard, U.S. Department of Interior, Colorado, August 11 - September 23, to work on gases in Panamanian soils on BCI.
- Michael Walzenback, writer, August 12-26, conduct interviews for a book on STRI research.
- Amelia Sánchez, Escuela Superior Politécnica del Litoral, August 15-November 15, to study Precolombian fish remains from Salango, Ecuador to evaluate fishing patterns.
- Alberto León, Universidad de Costa Rica, August 15 - November 15, to work with Hector Guzmán and Jeremy Jackson.
- Birgit Vollrath, Universitat Wurzburg, West Germany, August 15 - October 15, to work on the physiological and biochemical characteristics of tropical plants on BCI.

### On Leave

Georgina de Alba, August 14 - 20.  
 Audrey Smith, on sick leave, August 13 - September 14. Isis Estribí will be working in the Director's Office during that time.

## THINGS YOU SHOULD KNOW

### From the Travel Office

•Deadline for submitting requests for travel for FY 91 is Monday, August 13. •Deadline for obligation of FY 90 travel funds is August 31. If you plan any travel, please inform us before August 24 so that travel orders can be made and obligated before this deadline. Also remember that all travel vouchers need to be turned in ASAP after travel is completed.

### The International Exchanges Program

The Smithsonian Institution International Center announces a CALL FOR PROPOSALS under its International Exchanges Program for projects designed to enhance long-term relationships between the Smithsonian and research institutions in other countries. Special attention will be given to projects in countries in which research protocols

are in effect. These include PANAMA.

The program has as its principal objective the facilitating of emerging or the enhancement of established institutional relationships. Proposed projects may take the form of exploration for or conduct of joint research projects, training courses, workshops, residences, or variation of these formats.

Proposals may be offered by both Federal and Trust-funded employees and should be submitted through Bureau/Office Directors and Department Chairpersons. Priority will be given to those projects which utilize unique Smithsonian resources, including museums and archival collections, field establishments and expert knowledge. The funding ceiling for projects is \$25,000. It is expected that most of the work under a project will be conducted at a Smithsonian Facility.

The deadline for submission is September 14, 1990. For further information, please contact Leonard Hirsh at (202) 357 - 4788.

### The National Science Foundation

The target dates for unsolicited proposals to the OCEAN SCIENCES RESEARCH SECTION of the National Science Foundation will be November 1, 1990; May 1, 1991; November 1, 1991; and May 1, 1992. This replaces the previous 3-times per year target dates of February, June and October.

People who currently have grants that will expire in the time frame such that they would normally submit a new proposal for a February target date, should decide whether they will submit three months earlier (November 1) or three months later (May 1). For more information see your local bulletin board.

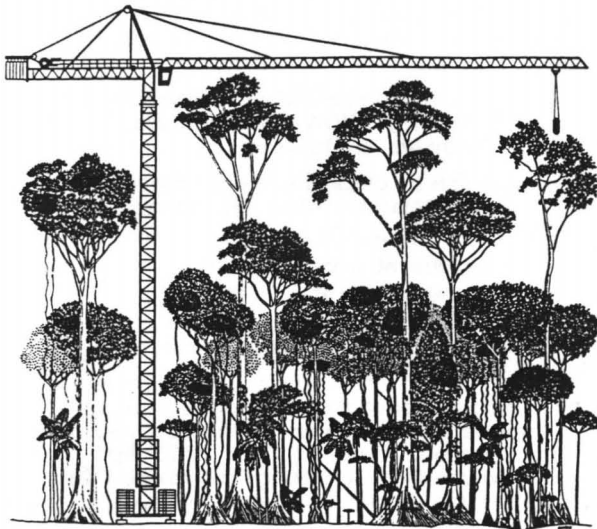
### Columbian Consequences Seminar

More than 100 scholars from diverse fields are participating in nine interdisciplinary symposia, held at successive SAA Annual Meetings. The derivative papers are being published in three volumes by the Smithsonian Institution Press; the first book is entitled *Columbian Consequences; Archaeological and Historical Perspectives on the Spanish Borderlands West* and appeared in April 1989. The second publication is comprised of 36 papers addressing the Spanish Borderlands East -basically Spanish Florida and the Caribbean- and will be published prior to the 1990 Annual Meeting in Las Vegas. The third volume, containing roughly three dozen contributions placing the Spanish Borderlands in Pan-American perspective, is schedule to be published in April 1991.

## ANNOUNCEMENTS

**Award of Excellence**

"Parting the Green Curtain", a four-color exhibition booklet that accompanies the exhibit in the Tupper Center and was designed by Anaconda Press, won an Award of Excellence from the Printing Industry of Metropolitan Washington. The booklet was jointly produced by Elena Lombardo, George Angehr and Edgar Maravi from STRI, and Bill Schultz and Madeleine Jacobs from the Office of Public Affairs.

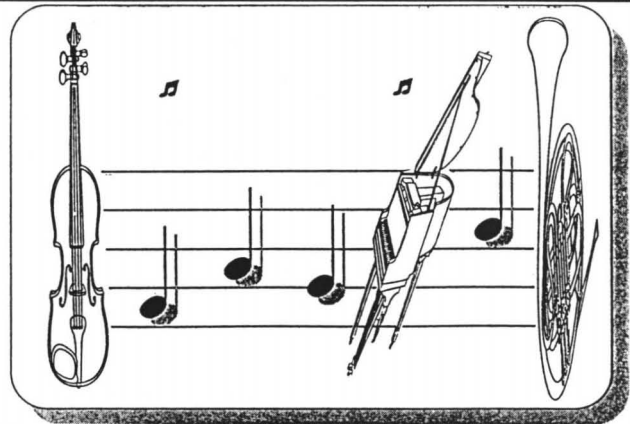
**Una Grúa para Estudiar el Dosel**

Como parte de un programa de investigación dirigido por el Dr. Alan Smith se ha instalado una grúa comercial en el Parque Metropolitano, para llevar a cabo un estudio preliminar del dosel del bosque por 4 meses. La grúa, de 30m de altura y con una giba de 30m de longitud, tiene instalada una pequeña góndola desde donde el investigador podrá hacer sus observaciones y experimentos.

**For Sale / Se Vende**

Juego de comedor de rattan, 4 puestos, mesa con vidrio. Interesados llamar a Celideth Mendoza (62-2077).

Mesa de comedor de 4 sillas, rectangular con patas de metal, cafe oscuro. Ganga \$80, negociable, por viaje el 18 de agosto. Interesados llamar a Angel Saavedra al 52-2124.

**Tarde Conservacionista Infantil**

31 de agosto 1990 / 5:00 - 9:00 p.m.

Parque de Diversiones El Dorado. Boletto \$5, incluye entrada, uso de todos los juegos, charla.

Actividad de ANCON, si está interesado llamar a Belkys Jiménez Tel: 64-8100.

**Teatro**

• Alice in Wonderland. Friday at 7:30 p.m., Saturday at 2 & 7:30 p.m, and Sunday at 7:30 p.m. at the Pacific Museum Theatre in Curundu. Tickets \$3.00. John and Mary Leigh have 3 parts.

• Producciones Beku presenta la obra: Banquete de Despedida, dirigida por Bruce Quinn, en la sala del Teatro en Círculo del 8 al 25 de agosto.

**Actividades del INAC**

• Sábados y Domingos, el grupo de Teatro y Títeres Sombrerito presenta "Los vecinitos de Macondito", en el Teatro Nuevas Tendencias, Bóveda 4, 3:00 p.m.

• El pintor Brooke Alfaro presenta la exposición "La Tía Edith y sus Invitados" hasta el 20 de agosto en la Galería de Arte (28-8057), a las 8 p.m.

• La Dirección del Patrimonio Histórico del INAC presenta su exposición, Muestra de Arte Religioso Colonial, hasta el mes de octubre en la sala OEA del Museo de Ciencias Naturales (25-0645).

**Exposiciones**

• La galería de arte Imágen (64-6793) presenta la Exposición Plástica Contemporánea de El Salvador (Wixnamickcin), con Augusto Crespín, Héctor Hernández, Mauricio Mejía, Otoniel Mejía y Alex Sánchez.

**Música**

Clarence Martins, Bar Restaurante Cubares, sábado 10 p.m. ♦ Tropical Switt Caribe, Bar Mai-Tai, Hotel Soloy, sábados 8 p.m. ♦ Sonido Seis, Piano Bar Neptuno (Panamar), sábados 9 p.m. ♦ Bar Bohemio: Panabras el sábado, Concierto de Jazz con Víctor Boa y su Grupo Los Ejemplares el domingo. ♦ Colaquito Cortés y orquesta, Club Las Molas 8 p.m.

### BCI Kitchen Inauguration

The BCI crew have been busy moving all week. On Thursday, the new kitchen was officially inaugurated and BCI residents were treated to ham, turkey and lots of other goodies.



### Centro Tupper

Horario de 9 a.m. - 5 p.m.

- Lunes 13 - Chili con carne, arroz blanco.
- Mártes 14 - Beef goulash, tallarines.
- Miércoles 15 - Arroz con pollo, plátano en tentación.
- Jueves 16 - Moros y cristianos, chuletas de cerdo.
- Viernes 17 - Chilaquiles de pollo, guacamole.

### STRI LIBRARY NEW BOOK LIST

Action plan for Asian primate conservation, 1987-91 (AA Eudey, comp., 1987) **QL737.P9A28 1987 STRI.**

Afidos (Homoptera Aphididae) de Panama (DI Quiros, 1988) **SB945.A5Q57 1988 STRI.**

Agroforestería tropical : suplemento bibliográfico no.1 (C. Monge, comp., 1987) **S494.5.A45A37 1987 STRI.**

Air concentration and deposition rates from uniform area sources (L. Nachta, 1978) **QC880.A.D44N15 1978 STRI.**

Algunas observaciones en la historia de vida y bromatología básica del pargo cunaro (*Rhomboplites aurorubens*) : (C y V 1829) : (Lutjanidae, Pisces) capturado en alrededores de las Islas de San Bernardo e Isla Fuerte, Mar Caribe Colombiano (JD López G., 1986) **QL638.S74G47 1986a STRI.**

Birds that hunt and are hunted : life histories of one hundred and seventy birds of prey, game birds and water-fowls (N. Blanchan, 1912) **QL676.B53 1912 STRI.**

Calidad del aire en lugares cerrados : simposio : 6 y 7 de

Diciembre de 1988 San Carlos de Bariloche, Argentina / auspiciado por la Academia Nacional de Ciencias de Buenos Aires, Argentina (Simposia Calidad del Aire en Lugares Cerrados : (1988 : San Carlos de Bariloche, Argentina) **TD881.S56 1988 STRI.**

A Circular periodicity chart suggests element formation on a natural cyclotron or pulsar (LR Holdridge, 1978) **QD467.H727 1978 STRI.**

El Desarrollo de las ciencias naturales y la medicina en Panamá : panorama histórico y antología (N. Escobar, 1987) **QH108.P3E73 1987 STRI.**

Diez años de colaboración científica Cuba-RDA / Academia de Ciencias de Cuba, Instituto de Investigaciones Fundamentales en Agricultura Tropical Alejandro de Humboldt (Instituto de Investigaciones Fundamentales en Agricultura Tropical Alejandro de Humboldt, 1976) **SB87.C9157 1976X STRI.**

Disease processes in marine bivalve molluscs (WS Fisher, 1988) **SH171.D611 1988 STRI.**

Dynamique d'écosystèmes macrobentiques des fonds sédimentaires de la baie de morlaix et leur perturbation par les hydrocarbures de l'Amoco Cadiz (JC Dauvin, 1984) **QH541.5.S3D38 1984 STRI.**

Ecomorphology and foraging behavior of the yellow warbler (*Dendroica petechia*) (DA Wiedenfeld, 1988) **QL696.P2618W53 1988 STRI.**

The Effects of pollution by organic waste on macrofauna in the Eastern Dutch Wadden Sea (K. Essink, 1978) **QH545.W3E87X 1978 STRI.**

Etude eco-ethnologique et évolutive de *P. Americana* et d'autres blattes sociales (P. Deleporte, 1988) **QL505.7.B485d34 1988 STRI.**

Exposición bibliográfica itinerante sobre medio ambiente : catálogo **TD153.E97 1983 STRI.**

Gardening nutritious vegetables : proceedings of the Vegetable Improvement Gardening Workshop, Bangkok, Thailand and Shanhua, Taiwan, R.O.C., 22-26 April 1985 (Vegetable Improvement Gardening Workshop (1985 : Bangkok, Thailand, and Shanhua, Taiwan), 1988) **SB320.2.V33 1985 STRI.**

Gorgona (H. Prael-et al., 1979) **QL244.P89 STRI.**

Guide to the papers of George Sprague Myers, circa 1903-1986, and undated (WE Cox, 1988) **Z6616.M99C878 1988 STRI.**

An Introduction to the physiography and history of the Bisley experimental watersheds in the Luquillo Mountains of Puerto Rico (FN Scatena, 1989) **GB992.P9S38 1989 STRI.**

Investigaciones paleoindias al sur de la línea ecuatorial : Seminario-Taller sobre Tecnología Paleoindio, Antofagasta, 21-29 octubre de 1979 (Seminario-Taller sobre Tecnología Paleoindio (1979 : Antofagasta, Chile) **F2229.S47 1979 STRI.**

The Law of cause and effect in ancient Java (J. Fontein, 1989) **BQ6343.F68 1989 STRI.**

The Lepidopterists' Society, commemorative volume, 1945-1973 / compiled by Roy O. Kendall, edited by Harry K. Clench & Theodore D. Sargent : with contributions by Peter F. Bellinger, Harry K. Clench & Paul A. Opler. **QL541.L46X STRI.**

The Library in tomorrow's society : a literature review (KH Roberts, 1987) **QZ666.R642 1987 STRI.**