Preliminary Report on Environmental Archaeological Study in the Central China Plain

Abstract

The Central China plain traditionally comprises most of the Henan Province and southern part of the Shanxi and Hebei Provinces. This region has been the center of the ancient Chinese civilization for several thousand years. Abundant archaeological excavations have been conducted in this region since the 1920s and many important discoveries have been made. As a supplement to the archaeological study in this region, we are carrying out a multi-disciplinary study on the aspect of environmental archaeology. At the present, we have sampled three archaeological sites, dating respectively as 4500-2500 BP in the Quwo County, for palynological and phytolith study in order to obtain palaeoenvironmental and cultural information. Besides samples from the archaeological sites, we have also collected lake sediments for comparison purpose. Preliminary study of one of the sites in Dengfeng County (dating 500-600 BP) of the northern Henan Province indicates that there were slight climatic fluctuations as shown in the pollen spectrum. Abundant and diverse phytoliths in the section shows that there were heavy agricultural activities conducted here. Evidence of rice agriculture is indicated by the traces of glume inside the clay bricks, which were used for building houses. Further evidence of rice can be obtained from phytolith study.

On July 15, the Fausto nature trail on BCI, is one year old. During this first year, 2160 Day-Visitors have enjoyed walking it ••• El 15 de julio el sendero natural Fausto cumplió su primer año. Durante este período 2,160 visitantes de un día lo han disfrutado su recorrido. (Foto: M.A. Guerra)

PEOPLE

Arrivals

- Bill and Mary Jane Eberhard, Jul 9-31, to do research at the STRI library and consult with colleagues.
- Nicole Casteel, Washington and Lee University, Jul 10-Mar 94, to work with Gregory Adler, on BCI.
- Jeff Brawn and Scot Robinson, Illinois Natural History Survey, Jul 12-22, to monitor the dynamics of avian communities and population in central Panama.
- Louise Collerson, California, Jul 12-21 Aug, to work as volunteer for Laura Gutiérrez, at San Blas.
- Devon Pearce, California, Jul 12-21 Aug, to work as volunteer for Janna Ellingson, in Gamboa.
- Jerome Howard, University of New Orleans, Jul 15-13 Aug, to work with Steve Hubbell, on BCI.
- Patricia Escobar, State University of NY, Jul 15-15 Jan 94, to work with James Thompson, on BCI.
- Matthew Gompper, Predoctoral Fellow from the Univ. of Tennessee, Jul 15-15 Aug, to study the importance of genetic relatedness to the exhibition of social behavior in the coati Nasua narica, on BCI.
- Deedra McClearn and William Glanz, Cornell University, Jul 23-14 Aug, to perform a survey of mammal communities at three forested sites in the BCNM, on BCI.
Departures
- Elena Lombardo, Jul 15-23, to Washington D.C., on official business to SI.

THINGS YOU SHOULD KNOW

Delegation of Authority
Leonor Motta will serve as Acting Director of STRI from Jul 12-13. Outgoing correspondence should be prepared for her signature.

At Tupper Center
Mon, Jul 12  Exhibit: Jardín Infantil Montessori, 8:30am, Instituto Rubierno, 2pm.
Tue, Jul 13  Exhibit: Colegio Pedro José Sosa, 9:pm and 10:30am.
Noon seminar by Chihua Jiang, Auditorium.
Wed, Jul 14  Exhibit: Jardín Infantil Montessori, 8:30am, Primer Ciclo el Copé (Copé), 2pm.
Thu, Jul 15  Exhibit: Colegio Regimontano, 9am, Colegio Episcopal de Panamá, 10:30am.
Fri, Jul 16  Exhibit: Instituto Cultural, 9am, Escuela República de México, 10:30am.

At the Culebra Marine Biological Reserve
Tue, Jul 13  Instituto Alfredo Cantón, 8:30am
Wed, Jul 14  Escuela Pedro J. Sosa, 8:30am
Thu, Jul 15  Centro Infantil Montessori, 8:30am
Fri, Jul 16  Kinder Claret, 9:00am

For E-Mail Users
Basic Instructions to Minimize Downtime of the E-Mail System
- If after typing OIRM:
  - If the INTELPQ prompt does not appear, press the Alt and F2 keys simultaneously. This will take you back to the DOS prompt. Try again by typing OIRM. If the INTELPQ prompt does not appear report the problem to Francisco Rivera, Ramnldo Urriola or Fernando Bouche.
  - If for some reason the execution of the script stops, try pressing enter once. If nothing happens, press Alt+F2. Try again by typing OIRM.
- When you get the SI Castle:
  - The system will only allow you to try three times to input your user ID and password. Then, it will be necessary to reset the IBM mainframe system. If you experience this situation press Alt+F2. Report the problem.
- To exit the E-Mail system:
  - Type LOGOFF, LOGOUT or LOG. This will take you to the DOS prompt.

- If you get the message Number of users exceeded, this could mean that all ports are being used. You should try later. If you still get the message, report the problem.
- If for some reason you need to get out of the system and you cannot LOGOUT properly, press Alt+F2 keys. Do not turn off your computer without trying this first. If you must turn off your computer without login out, report it.

Move to Tupper • • • Mudanza al Tupper
Due to remodeling on Surfside, the Oil Spill crew will move to the Tupper Center on Aug 2 • • • El personal del Proyecto de Derrame de Petróleo se mudará al Centro Tupper a partir del 2 de agosto, debido a la remodelación de las instalaciones en Surfside.

ANNOUNCEMENTS

From the Office of Development
We are pleased to announce that Glenn O. Tupper and family recently donated an additional million dollars to the Earl S. Tupper Endowment Fund at STRI. The fund ensures a long-term base of support for tropical biological research and conservation programs. At the same time, Glenn Tupper and his family made a contribution of $200,000 to the National Museum of American History Archives Center, which documents the lives and work of individuals who have had a significant impact on American business and culture. Earl S. Tupper was the founder and inventor of Tupperware. The recent gift to the National Museum of American History included early examples of Tupperware, as well as archival materials related to the founding of the company. Our deep appreciation to Glenn Tupper and his family for their generous commitment to tropical research at STRI.

De la Dirección de Asuntos Externos
Durante la semana del 28 al 30 de junio se llevó a cabo la IV Consulta sobre el Medio Ambiente del Banco Interamericano de Desarrollo (BID) con la participación de representantes de más de 12 países latinoamericanos y observadores internacionales. Elena Lombardo representó a STRI durante las sesiones, en donde, a solicitud de los organizadores, Brian Keller presentó una charla acerca del proyecto de los efectos del derrame de petróleo, la cual captó gran interés. El acto contó con la presencia del presidente de la república, Guillermo Endara G., el presidente del BID, Enrique Iglesias, la ministra de Planificación y Política Económica, Delia Cárdenas y el jefe de la división de Protección del medio ambiente del BID, Marc Dourojeanni. Durante las sesiones fue claro el compromiso del BID por los asuntos del medio ambiente, con evidente interés en el saneamiento de la Bahía de Panamá donde el BID espera financiar parte de los estudios de factibilidad del proyecto.
From the Diving Officer
An entry level scientific Scuba course starts on 26th of July. For information call José Espino, Naos, Tel. 28-4498 or 28-4022.

From the Library
When the catalog is down please use the STRI holdings by title (up to 1991) available in 4 grey binders in the library.

From the Mini-Bookstore
The STRI Mini-Bookstore has just inaugurated the Children’s Corner with all kind of books from Scholastic and Random House and educational games for kids. This week’s sale will include recycled stationary paper, ready-to-frame prints, animal mobiles. Also, the bookstore has recently received a great selection of taguas and baskets from the Wounaan people.


The San Blas Marine Station has undergone renovation of its living and lab facilities. Full renovation of the station is expected for next fiscal year. * * * La Estación Marina de San Blas ha sido objeto de renovación de sus instalaciones de hospedaje laboratorios. Se espera que durante el próximo año fiscal se terminen de renovar esta Estación. (Foto: A. Montaner)

OPORTUNIDADES DE ENTRENAMIENTO

Ecología de Poblaciones 94-2 (Ecología Tropical)
La Organización para Estudios Tropicales (OET) y la Universidad de Costa Rica (UCR) anuncian el curso de Ecología de Poblaciones cuyos objetivos son: * Exponer al estudiante a la teoría y práctica de las comunidades de plantas y animales en condiciones naturales. * Reducir la brecha que se nota en muchos programas de biología en América Latina, entre la teoría ecológica y los experimentos y observaciones en el campo; * Estimular el uso de criterios ecológicos en la conservación y el manejo sustentable de los recursos naturales.

Duración: del 12 de enero al 2 de marzo de 1994.
Fecha tope de inscripción: 30 de julio de 1993
Costos: Matrícula, costos de instrucción, materiales y equipo $1,700. Transporte durante el curso $600 • Alimentación y alojamiento $1,200; sumando un total de $3,500.

Financiamiento: Aún cuando lo ideal es que cada estudiante obtenga los fondos necesarios para cubrir el costo del curso, existe la posibilidad de otorgar becas parciales o totales a los estudiantes que no puedan conseguir el financiamiento en sus países. Sin embargo las becas se ofrecerán exclusivamente a estudiantes latinoamericanos y del Caribe. Para mayores detalles y solicitud de admisión, consulte la Oficina de Educación en el Centro Tupper.

From: 365 Ways to Save our Planet
* Page-a-Day Calendar *

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it’s the only thing that ever has.”

MARGARET MEAD
STRI NEW PUBLICATIONS

Adverse effects of herbal drugs / edited by P.A.G.M. de Smet... [et al.]; in collaboration with the Pharmaceuticals Programme of the World Health Organization, Regional Office for Europe. RM666.H33A34 1992 v.1 STRI.

The Africa-South America connection / edited by W. George and R. Lavocat. QH194.A32 1993X STRI.

Behavio!ard s_evo!utica of wasps: the communal aggregotion hypothEsis / Y. Ito. QLS68.V8177 1993X STRI.


Control of plant gene expression / edited by Desh P.S. Verma. QK981.4.C66 1993X STRI.

Determinacion del grado de heterocigosidad genetica de las abejas africanizadas (Hymenoptera: Apidae) en la Republica de Panama por O. Duran L. y V.E. Moreno M. QL568.A6D94 1991 STRI.

El Dorado, l'or de Colombie / J.L. Arellano, J. Grondin. F2270.1.GS7L96 1991 STRI.


Imperial Shags and other birds of the Lago General Vintter area, Chubut Province, Argentina / P.C. Rasmussen, P.S. Humphrey, and J. Muniz-Saavedra. QL689.A7I34 1992 STRI.

Indices to the species of mosses and lichens described by W. Mitten/B.M. Thiers, project coordinator. QK537.I39 1992 STRI.

The Islands and the sea: five centuries of nature writing from the Caribbean ed. by J.A. Murray. QH109.A1183 1991X STRI.

Lake Tanganyika and its life, ed. by G.W. Coulter; with contributions from J.J. Tiercelin, et al. QH195.T28L35 1991X STRI.


Natural selection: domains, levels, and challenges / George C. Williams. QH375.W52 1992X STRI.

Nutricion de larvas de Mithrax spinosissimus (Lamarck), en aguas panamenas del Caribe / por I. Fernandez y P. Zapata. QL444.M33F36 1991 STRI.

The Orchids of Puerto Rico and the Virgin Islands = Las orquideas de Puerto Rico y de las Islas Virgenes / texto de J.D. Ackerman; ilustraciones de Maria del Castillo. QK495.O64A35 1992X STRI.


Scaling physiological processes: leaf to globe / edited by James R. Ehleringer, Christopher B. Field. QK905.S33 1993X STRI.

Some hylid frogs from the Guiana highlands, northeast South America: new species, distributional records, and a generic reallocation / William E. Duellman and Marinus S. Hoogmoed. QL668.E24D85 1992 STRI.

PLEASE RECYCLE THIS NEWSLETTER 4 FAVOR RECICLAR ESTE "NEWSLETTER"

Last Minute News *** Al Cierre
To all customers at Tupper Center: starting next week, the soda machine will sell cans instead of bottles. The new price is 40 cents. *** A los clientes del Centro Tupper: A partir de la próxima semana la máquina de soda venderá latas en vez de botellas. El nuevo precio será de 40 centavos.