

# STRI newsletter

September 23, 1994

SMITHSONIAN TROPICAL RESEARCH INSTITUTE - Apartado 2072, Balboa, Panamá

No. 37

## TUPPER CENTER SEMINARS

Tuesday, September 27, noon seminar speaker will be Victor Vacquier, Scripps Institution of Oceanography

*Gamete Recognition Proteins: Does the Molecular Evolution of Abalone Sperm Lysin Tell Us Something About the Speciation Process?*

## SPECIAL

Tuesday, September 27, evening seminar speaker will be Victor Vacquier, Scripps Institution of Oceanography, at 5:30pm

*Gamete Recognition Proteins: Species Specific Sequences and the Role of Sperm Bindin in Sea Urchin Fertilization*

## BAMBI

Thursday, September 29 Bambi seminar speaker will be Allen Herre, STRI, at 7:30pm

*Field, Stream, and Forest*

Please call BCI to arrange transportation.

## PEOPLE

### Arrivals

- Daniel Cole, SI National Museum of Natural History, Sep 25-1 Oct, to consult with the staff of the CTFS.
- Alex Moad, U.S.D.A. Forest Service and Peter Ashton, Harvard Institute for International Development, Sep 26-27, to attend the CTFS Annual Board Meeting.
- Chris Fitzgerald, Cornell University, Sep 26-7 Nov, to work with Deedra McClearn in the survey of mammal communities at three forested sites in the BCNM.
- Phyllis Coley, University of Utah, Sep 26-9 Nov, to work on the deterrence of fungi and herbivores in young leaves with different development patterns, on BCI. She will also be working to develop a transplant garden on the Gigante Peninsula.



*On Fri, Sep 9, the members of the "Patronato" who provide financial support for the Marine Exhibition Center, Culebra Point at Naos Island, met with STRI representatives to discuss the on-going activities and future plans ••• El viernes 2 de septiembre, los miembros del Patronato del Centro de Exhibiciones Marinas de Punta Culebra en la Isla de Naos, se reunieron para discutir las actividades en progreso y futuros planes del Centro.*

(Foto: M.A. Guerra)

- Thomas Kursar, University of Utah, Sep 26-9 Nov, to study the expansion rate and defenses in young leaves of tropical species, on BCI.
- Elizabeth Losos, CTFS Executive Officer, Sep 26-7 Oct, to attend the CTFS Annual Board Meeting and other official business. She will also travel to Belize.
- Lowell Overton, University of Arkansas, Sep 26-15 Dec, to do molecular analysis of Caribbean biogeography, at Naos.
- Victor Vacquier, Senior Scholar from Scripps Institution of Oceanography, Sep 26-30, present seminars, to visit STRI, and consult with colleagues, at Naos.

### Departures

- Alejandro Hernández and Gabriel Abrego, Sep 25-2 Oct, to Honduras and Costa Rica, to consult with personnel of various research stations regarding protection activities.
- Mireya Correa, Sep 26-23 Oct, to Mar del Plata, Argentina, to attend the Congreso Latino de Botánica.
- Noris Salazar, Sep 26-28 Oct, to Mar del Plata, Argentina, to attend the Congreso Latino de Botánica, then to Perú to consult with colleagues and collect specimens for research.

- Leonor Motta, Sep 27-5 Oct, to Washington D.C. on official business at SI.

### Wedding Bells

Congratulations to Alejandro Arze, Security Officer and Carla Lopez who were married on Saturday, Sep 17.

### Congratulations

To Héctor Barrios, Professor of Entomology at the University of Panama and STRI Research Affiliate, who was awarded a Cochran fellowship to visit the Entomology Department and work with colleagues at Kansas State University.

## THINGS YOU SHOULD KNOW

### For Tupper Users

Amarjit Argüelles will be on vacation from Sep 22-7 Oct. During this time Marcela Vargas will replace her and Lorena Tabón will serve as receptionist.

### Scholarly Studies Program

The following proposals submitted to the Scholarly Studies Program in April 1994 were funded:

- Tony Coates: *The Bocas del Toro Section: Stratigraphic Precision as a Key to Understanding Climatic and Biotic Stability*, \$69,000.
- Nancy Knowlton: *Diversity of Corals and their Symbiotic Algae: Host-Symbiont Specificity and Stability*, \$64,500.
- Stanley Rand: *Phylogeny and Evolution of Communication in the Frogs of the Genus Physalaemus*, \$55,000.

### At the Tupper Center

- Mon-Thu    ■ *Seminario sobre Servicios Diplomáticos*,  
Sep 26-29    Conference Hall, 8am.
- Tue, Sep 27    ■ CTFS Board of Directors Meeting,  
SMR, 8am.
- Noon seminar by Victor Vacquier, AUD.
- Evening seminar by Victor Vacquier,  
AUD, 5:30pm.
- Thu, Sep 29    ■ General Scientific Support Staff Meeting,  
LMR, 1:30pm.

### At the Culebra Marine Reserve

- Tue, Sep 27    *Escuela Hogar Misionero*
- Wed, Sep 28    *Escuela Bilingüe Juan Pablo*
- Thu, Sep 29    *Lotería Nacional de Beneficencia*
- Fri, Sep 30    *Escuela Don Bosco*
- Sat, Oct 1      *Grupo Conservacionista Vida*

### At Barro Colorado Island Station

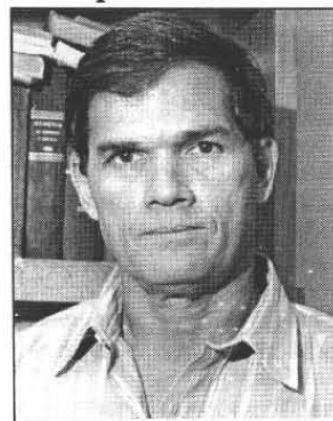
- Sat, Sep 24    *Colegio La Salle, ANCON*
- Tue, Sep 27    *Grupo Conservacionista de Penonomé*

**New Flight to San Blas •• Nuevo Vuelo a San Blas**  
Aeroperlas has a new flight to San Blas on Sundays. Flight leaves Panama to El Porvenir at 8am and returns at 3pm. The round-trip cost is the same as Aerotaxi daily flights (\$49.66). For reservations please call 69-4555. For official reservations ask Marissa, at Naos Marine Laboratories ••• *Aeroperlas tiene un nuevo vuelo a San Blas los domingos. El vuelo sale de Panamá hacia El Porvenir a las 8am y regresa de El Porvenir a Panamá a las 3pm. El costo de vuelo ida y vuelta es el mismo de los vuelos diarios de Aerotaxi (\$49.66). Para reservaciones llame al 69-4555. Reservaciones oficiales pueden canalizarse a través de Marissa, en los Laboratorios Marinos de Naos.*

## ANNOUNCEMENTS

### Stanley Heckadon-Moreno:

### New Special Advisor to the Director



Effective September 1, Stanley Heckadon-Moreno, STRI research affiliate since 1983, was appointed Special Advisor to the Director for Technology Transfer/Environmental Policy Issues. His responsibilities are to establish a bridge between scientists at STRI, studying tropical terrestrial and marine ecosystems, and, local, national and regional environmental policy

makers from the public and private sector by providing information on practical results of field research in a timely and usable manner. Heckadon received his Ph.D. in Sociology at the University of Essex, England in 1984. He was a senior social scientist at CATIE (Costa Rica) within the Central American Multiple Use Tree Crop Project and served as director general of Panama's National Institute of Renewable Natural Resources (INRENARE) from 1990 to 1991. Presently, he is a member of the Board of Trustees of two prestigious international tropical forestry research organizations: the Center for International Forestry Research (CIFOR) in Indonesia and the Centre de Cooperation Internationale en Recherche Agronomique pour le Développement (CIRAD-FORET), in France. He also belongs to the Inter-American Group for Sustainable Development of Agriculture and Natural Resources in Costa Rica, an advisory group to the Earth Council that provides follow up to the agreements of the Rio Earth Summit.

**Stanley Heckadon-Moreno:****Nuevo Asesor Especial del Director**

A partir del 1ro. de septiembre, Stanley Heckadon-Moreno, investigador asociado de STRI desde 1983, fue nombrado como Asesor Especial del Director para Transferencia de Tecnología y Asuntos de Política Ambiental. Sus responsabilidades son las de establecer un puente entre los científicos de STRI que estudian los ecosistemas tropicales terrestres y marinos, y las personalidades del sector público y privado encargados de tomar decisiones sobre asuntos ambientales a nivel local, nacional y regional. A éstos les suministrará información sobre los resultados prácticos obtenidos de la investigación en el campo de manera útil y a tiempo. Heckadon completó su doctorado en sociología en la Universidad de Essex, Inglaterra, en 1984. Ha sido sociólogo investigador de CATIE en Costa Rica en el Proyecto Centroamericano de Uso Múltiple de Cultivo de Arboles y sirvió como director general del Instituto Nacional de Recursos Naturales Renovables (INRENARE) de Panamá, de 1990 a 1991. Actualmente es miembro del directorio de dos prestigiosas organizaciones de investigación forestal tropical: el Centro de Investigación Forestal Internacional (CIFOR) en Indonesia y el Centro de Cooperación Internacional de Investigación de Agronomía para el Desarrollo (CIRAD-FORET), en Francia. También pertenece al Grupo Interamericano para el Desarrollo Sostenible de Agricultura y Recursos Naturales en Costa Rica, un grupo de consultoría del "Earth Council" que dá seguimiento a los acuerdos del "Rio Earth Summit".

**Jeremy B.C. Jackson: Ten Years at STRI**

(Photo: M.A. Guerra)

Recently, Jeremy B.C. Jackson received a diamond pin for ten-year service at STRI. Jackson started working at the Institute on Sep 2, 1984, as a staff scientist in Naos. He served as Marine Science Coordinator from 1985-1988, and was Chief Scientist of the Oil Spill Project from 1986-1993. In 1990 Jackson was named Senior Scientist at STRI and since 1991 accepted the position of Director for the STRI Center for Tropical Paleoecology and Archaeology. Before coming to STRI, Jackson was professor at the Department of Earth and Planetary Sciences at the Johns Hopkins University, Research Associate at the Department of Invertebrates at the American Museum of Natural History and visiting professor at the Fundación Científica Los Roques in Venezuela. Jackson is a fellow of the American Association for the Advancement of Science and member of the Association of Marine Laboratories of the Caribbean, the American Society of Limnology and Oceanography, the American Society of Naturalists, the American Society of Zoologists, the British Ecological Society, the Ecological Society of America, the European Society of Evolutionary Biology, the Geological Society of America, the International Bryozoology Association, the International Society for Reef Studies, the Paleontological Research Institute, the Paleontological Society, the Society for the Study of Evolution and the Systematics Association.

**New I.D. Schedule •• Nuevo Horario para el I.D.**

Starting Tuesday, Sep 27, the new schedule for the issuing of the STRI I.D. is Tuesday and Friday, from 9-10am ••• A partir del martes 27 de septiembre, el nuevo horario para la confección de carnets de STRI será los martes y viernes de 9-10 de la mañana.

**NEW STRI PUBLICATIONS**

- Hardy, Sr., David L. 1994. "Bothrops asper (Viperidae) Snakebite and Field Researchers in Middle America." *Biotropica* 26(2): 198-207.
- U.S. Army Medical Services. 1994. *Plants and Animals of Medical Importance in Panama*. Fort Clayton, Panama: U.S. Army South Pamphlet 40-1.

### NEW STRI BOOKLIST

Aspects of tropical mycology (Symposium of the British Mycological Society held at the University of Liverpool, April 1992), edited by Susan Isaac et al.

QK615.7.B6 1992 STRI.

Australian weevils (Coleoptera: Curculionoidea), v.I. Orthoceri, Anthribidae to Attelabidae, The primitive weevils; v.II. Brentidae, Eurhynchidae, Apionidae, and a chapter on immature stages; v.III. Nanophyidae, Rhynchophoridae, Erihrinidae, Curculionidae: Amycterinae, Literature consulted, by EC Zimmerman.

Ref QL594.Z74 1991 STRI.

Beetle larvae of the world, by John Lawrence et al.

Mrdf66 STRI.

Bergey's manual of determinative bacteriology, by JG Holt et al.

QR81.A1 1994X STRI.

Bergey's manual of systematic bacteriology, v.1-4, edited by JG Holt.

Ref QR81.B46 1984X STRI

The Black Eagle: a study, by Valerie Gargett.

QL696.F32G23 1993 STRI.

Design and analysis of ecological experiments, edited by SM Scheiner & Jessica Gurevitch.

QH541.15.S72D47 1993X STRI.

Feuding and warfare: selected works of Keith F. Otterbein, edited by KF Otterbein.

GN497.O77 1993X STRI.

Fungal physiology, by DH Griffin.

QK601.G76 1994X STRI.

Handbook of Australian, New Zealand & Antarctic birds, v.2: Raptors to Lapwings, edited by S. Marchant & PJ Higgins.

Ref QL693.M315 1990 v.2 STRI.

A History of the Earth, by JJW Rogers.

QE28.3.R64 1993X STRI.

Hybrid zones and the evolutionary process, edited by RG Harrison.

QH421.H83 1993X STRI.

Investigations of ancient human tissue: chemical analyses in anthropology, edited by MK Sandford.

GN62.I59 1993X STRI.

Large marine ecosystems: stress, mitigation, and sustainability, by Kenneth Sherman et al.

QH541.5.S3L32 1993 STRI.

Masters of animals: oral traditions of the Tolupan Indians, Honduras, by Anne Chapman.

F1505.2.X5C4813 1992X STRI.

Microscopic anatomy of invertebrates, v.2: Placozoa, Porifera, Cnidaria, and Ctenophora, edited by FW Harrison & JA Westfall.

QL363.M53 1991X STRI.

Numerical simulation of canopy flows, by Gunther Grob.

SD390.5.G76 1993X STRI.

Plant specialists index: index to specialists in the systematics of plants and fungi based on data from *Index Herbariorum* (Herbaria), Edition 8, prepared and edited by PK Holmgren & NH Holmgren.

Ref QK35.H75 1992 STRI.

Plant-animal interactions in Mediterranean-type ecosystems, edited by M.Arianoutsou and RH Groves.

QH549.5.P54 1994X STRI.

Restoration of tropical forest ecosystems (Proceedings of the Symposium held on October 7-10, 1991), edited by Helmut Lieth & Martina Lohmann.

SD247.R47 1991X STRI.

Sander's List of Orchid hybrids, Addendum 1981-1985 & 1986-1990, compiled and listed in one-table alphabetical form by The Royal Horticultural Society.

Ref QK495.O64S215 1987 STRI.

The Scent of orchids: olfactory and chemical investigations, by Roman Kaiser.

qQK495.O64K13 1993 STRI.

Species diversity in ecological communities: historical and geographical perspectives, edited by RE Ricklefs & Dolph Schluter.

QH541.15.S64S63 1993X STRI.

Studying war: anthropological perspectives, edited by SP Reyna & RE Downs.

GN497.S78 1994X STRI.

Tineid genera of Australia (Lepidoptera), by GS Robinson & ES Nielsen.

QL561.T55R66 1993 v.2 STRI.

#### Sighting of Humpback Whale

##### *Ballena Jorobada Vista desde Culebra*

On Friday, September 9, Luis D'Croz, Argelis Ruiz Guevara, Amalia Herrera and George Angehr saw a juvenile humpback whale from Culebra Point ••• *El viernes 9 de septiembre, Luis D'Croz, Argelis Ruiz Guevara, Amalia Herrera y George Angehr, divisaron una ballena jorobada juvenil desde Punta Culebra.*

## Excerpts of the Installation Address(\*) • *Extractos del Discurso de Toma de Posesión(\*)*

I. Michael Heyman, 10th Secretary of the Smithsonian

*I. Michael Heyman, Décimo Secretario del Smithsonian*

Distinguished guests: One of my mentors, Clark Kerr, when running afoul of a new governor who was outraged by 1960s protest and disruption at the University of California, told reporters that he left the Presidency fired with the same enthusiasm he had had when appointed President years before. You should know that I, similarly, am fired with enthusiasm for this extraordinary Institution, but I don't have any intention to speculate on how my tenure might eventually end.

Every Secretarial era reflects unique circumstances and poses its own opportunities and problems. At present, resources are relatively short... This means that the Smithsonian must rely more heavily in the future on private support from individuals and corporations... Substantial movement in these directions presents great opportunities to shore up our resource base... we are working very hard to interest corporate sponsors in joining our 150th-year celebration. If we are successful, the Institution's logo will appear broadly, and the Smithsonian will go public nationally on television and media in ways new to all of us. I ask my colleagues to applaud this audacity... This new era also demands from public (as well as private) organizations increased fiscal accountability. We must use our resources efficiently and intelligently both to husband them to underscore our credibility in those who provide them—the government and our donors...

It is crucial that we sustain excellence in all that we do. If our resource base shrinks, we must be prepared to jettison the less important of our activities rather than reduce all our activities pro rata and thus threaten the excellence of our most important ones. To do this rationally we have to plan, and I expect that a goodly portion of my time, and the time of my colleagues, will be devoted to shaping a comprehensive plan for the Institution for consideration of the regents.

Tough financial times, however, ought not to mean institutional paralysis. We must find ways to finance needed new activities, and I have two in mind presently. One is deeper participation by the Smithsonian in the environmental debates... My time at the Department of Interior (and my background in teaching) reinforce my belief that the Smithsonian can convene and preside over conferences that explore both the scientific and policy issues that surround contemporary environmental

Distinguidos invitados: Uno de mis mentores, Clark Kerr, al enfrentar problemas con un nuevo gobernador indignado por protestas y disturbios en los años '60 en la Universidad de California, comentó a los periodistas que dejaba la presidencia encendido con el mismo entusiasmo que tenía cuando había sido elegido presidente años atrás. Deben ustedes saber, que yo, de manera similar, ardo de entusiasmo por esta extraordinaria Institución, aunque no tengo intenciones de especular sobre cómo finalizará mi gestión.

Los tiempos de cada secretariado reflejan circunstancias únicas y poseen sus propias oportunidades y problemas. Actualmente, los recursos son relativamente escasos... Esto significa que el Smithsonian debe depender mucho más en el futuro del apoyo privado de individuos y corporaciones... Un esfuerzo substancial con esta orientación presenta grandes oportunidades de aumentar nuestros recursos básicos... estamos trabajando mucho para interesar patrocinadores de corporaciones a unirse a la celebración de nuestro aniversario de 150 años. Si tenemos éxito, el logo de la Institución aparecerá en grande, y el Smithsonian irá a la televisión y los medios por toda la nación de formas nuevas para todos nosotros. Pido a mis colegas que aplaudan esta audacidad... Esta nueva era también exige de organizaciones públicas (al igual que las privadas) una mayor fiscalización. Debemos usar nuestros recursos eficiente e inteligentemente para subrayar nuestra credibilidad para aquellos que los suministran —el gobierno y nuestros donantes...

Es crítico que mantengamos la excelencia en todo lo que hacemos. Si nuestros recursos disminuyen, debemos estar preparados para eliminar nuestras actividades menos importantes en lugar de reducirlas todas por igual, poniendo en peligro la excelencia de las más importantes. Para hacerlo racionalmente debemos planear, y espero que una buena porción de mi tiempo y el de mis colegas se dedique a darle forma a un plan comprensivo para la Institución para la consideración de los miembros del directorio.

Sin embargo, épocas financieras difíciles no deben connotar una parálisis institucional. Debemos encontrar maneras de financiar actividades nuevas necesarias, y actualmente, tengo dos en mente. Una es una participación más profunda del Smithsonian en los debates sobre el ambiente... Mi trabajo en el Departamento del Interior (y mi experiencia como docente) refuerzan mi creencia de que el Smithsonian puede convocar y presidir conferencias que exploren tanto los aspectos científicos como los políticos que rodean las discusiones actuales sobre el ambiente. Y

disputes. And we can do this in an even-handed manner that involves responsible people on the many sides of issues and that will inform the political debate and give interested people a relatively neutral template through which to make their own judgments. I am appointing Thomas Lovejoy as a Counsellor to me, and I am asking him to plan the first of what I hope will be annual conferences. The first topic is biodiversity and endangered species... The second activity, much more massive and potentially important for the Institution, is the development of our capacity to give electronic access to our collections throughout the nation. The technical capacity exists now to record our collections in digital form and to transmit them in on-line computer networks and on discs... Although it will take some time before substantial numbers of homes can be reached in such networks, in the short run, however, it is probable that transmissions will be broadly accessible to schools... These technological developments will enable the Smithsonian to be truly national. We presently share our exhibitions through a splendid systems of traveling shows, and we obviously share research information through articles and books and on-site work by visiting scholars. Electronic communication, however, broadens our potentialities immensely... We should be more than the place to visit in Washington; we should also be present throughout the country in a whole variety of ways... There is a third area of prior achievement which deserves our continued attention and energy. The Smithsonian is becoming self-consciously inclusive—more of its exhibitions and activities reflect the art, culture and history of all of our major ethnic groups. We still have a way to go, and we will be paying special attention in the next few years to that large group of Americans of Hispanic origin whose culture has not adequately been represented at the Smithsonian. We do this not to differentiate, but to educate all of us about our origins in a way that will foster senses of pride and thus counter separation and make more attainable the creation of one set of Americans out of many.

I am delighted to be named the 10th Secretary of the Smithsonian Institution. I look forward with pleasure to leading one of the great cultural and scientific institutions of the United States. I urge all of you to participate deeply in our 150th-year celebration through your energy, your creativity, and, when the times comes, your pocketbooks. Thank you.

*(\*) Please see your bulletin board for the complete version of the installation address of Secretary Heyman*

ésto lo podemos hacer de manera balanceada, incluyendo personas responsables de todos los diferentes lados del problema y que informarán al debate político y darán a las personas interesadas una plataforma relativamente neutral a través de la cual puedan llegar a sus propias conclusiones. He nombrado a Thomas Lovejoy como mi asesor y le he pedido que planee el primero de lo que espero sea un congreso anual. El primer tema es la biodiversidad y las especies en extinción... La segunda actividad, mucho más masiva y potencialmente importante para la Institución, es el desarrollo de nuestra capacidad de brindar acceso electrónico a nuestras colecciones a través de la nación. Ahora existe la capacidad técnica para registrar nuestras colecciones de manera digital y transmitir las a redes de computadoras conectadas y en discos. Aunque tomará algún tiempo antes de lograr llegar a un número significativo de hogares en este tipo de red, es probable que, a corto plazo, sin embargo, las transmisiones sean accesibles ampliamente para las escuelas... Estos avances tecnológicos permitirán al Smithsonian ser realmente nacional. Actualmente compartimos nuestras exhibiciones a través de un espléndido sistema de espectáculos itinerantes, y obviamente compartimos información a través de artículos y libros y recibiendo académicos visitantes para que trabajen aquí. La comunicación electrónica, sin embargo, amplía inmensamente nuestros potenciales... Debemos ser más que el lugar para visitar en Washington; debemos estar presentes también a través del país en toda una variedad de formas... Hay una tercera área de prioridad que merece nuestra continua atención y energía. El Smithsonian está volviéndose cada vez más introspectivo—más de sus exhibiciones y actividades reflejan el arte, la cultura y la historia de nuestros grupos étnicos más importantes. Aún tenemos caminos que recorrer, y estaremos prestando especial atención en los próximos años a ese extenso grupo de americanos de origen hispano cuya cultura no ha sido representada adecuadamente en el Smithsonian. No hacemos esto para diferenciar, sino para educarnos a todos sobre nuestros orígenes de manera que alberguemos sentimientos de orgullo combatiendo así la separación y haciendo más alcanzable la creación un grupo de americanos con muchos orígenes.

Estoy complacido de haber sido nombrado el décimo secretario de la Institución Smithsonian. Será para mí un placer dirigir una de las grandes instituciones culturales y científicas de los Estados Unidos. Pido a todos su profunda participación en la celebración de nuestros 150 años con su energía, su creatividad, y cuando llegue el momento, con sus billeteras. Muchas gracias.

*(\*) Favor de ver la cartelera de su lugar de trabajo para la versión completa del discurso de toma de posesión del Secretario Heyman*