

Tupper 4pm seminar

Tuesday, July 21, 4pm seminar speaker will be Tupac Otero Universidad Nacional de Colombia

New inputs on tropical orchid Mycorrhizae

BDG meeting

The Behavior Discussion Group will meet on Tuesday, July 21, 2pm, at the Large Meeting Room, with Aafke Oldendeuving, University of Leiden

Discussion on the role of chemicals in the host-specificity of pollinating fig wasps

Bocas Talk

Thursday, July 23, the Bocas Research Station invites the community to its monthly talk, by J.P. Lawrence, Michigan State University, 7pm at Sala de Conferencias del CEFATI, IPAT, Isla Colon

Conservation of a polymorphic frog

Bambi seminar

Thursday, July 23, Bambi seminar speaker on BCI will be David Donoso, University of Oklahoma

Trees as templates for soil arthropod biodiversity

Arrivals

Alba Lucía Morales Jimenez, New York University, to study the phylogeny and phylogeography of the Mesoamerican spider monkeys (*Ateles geoffroyi* and *Ateles fusciceps*).

**Safety number:
212-8122**



Smithsonian Tropical Research Institute, Panamá

www.stri.org

July 17, 2009

“Panama at the Smithsonian” launched at STRI

The Smithsonian Latino Center, STRI and the Museo del Canal Interoceánico de Panamá will offer "Panama at the Smithsonian," a series of public programs and educational activities in Washington, New York and Panama until May 31, 2010.

On Tuesday, July 14, Eduardo Díaz, director of the Latino Center, STRI director Eldredge Bermingham and Angeles Ramos Baquero, executive director and chief curator of the Museo del Canal Interoceánico de Panamá, an affiliate of the Smithsonian, launched the program at STRI's Tupper Auditorium.

In his remarks, Díaz asked: Why Panama? “Because Panama, is Panama!” he added. Not only to the US, but the world, Panama has been, since its emergence, a special force for the world, and important to the Smithsonian.

"Panama's biodiversity first attracted Smithsonian naturalists in 1910, and today, scientists across the world come to STRI to access diverse tropical environments," said Bermingham. "We are proud to be participating in this series to share the scientific discoveries of Panama and celebrate its people and culture who have been our



partners in the diffusion of knowledge for almost 100 years."

The "Panama at the Smithsonian" series kicked off on April in Washington DC, with a free concert of Panamanian jazz player and composer Danilo Pérez.

Highlights of the activities this week in Panama included lectures by STRI scientists Richard Cooke and Stanley Heckadon-Moreno and a presentation by Lider Sucre on Panama's Biodiversity Museum on July 15. Upcoming activities will be announced shortly.

DC visitors will also have the opportunity to experience a multi-sensory, bilingual exhibition that illustrates Panama's human and natural history since the rise of the isthmus three million years ago. "Panamanian Passages," in the Riple Center.

“Thanks to the program ‘Panama at the Smithsonian,’ which includes a broad series of activities, visitors to SI will have the opportunity to engage with a diverse sampling of Panamanian cultural expressions, as well as some of the major points of reflection on its past and present,” said Ramos Baquero.

El Centro Latino Smithsonian, STRI y el y el Museo del Canal



Heckadon-Moreno

More arrivals

Anna Liner and Stephen Farmer, Florida Fish & Wildlife Conservation Commission, to conduct a telemetry study on an arboreal frog species, *Agalychnis spurrelli*, on BCI.

Todd Oakley and Alexander Zaharoff, University of California, Santa Barbara, to study the evolution of eyes and vision in marine invertebrates, on Bocas del Toro.

Anthony Herrel and Stéphane Montuelle, Museum National d'Histoire Naturelle, to study why are mainland anoles different: An ecomorphological perspective, in Gamboa and BCI.

Kristen Crandell, University of Montana, to study why are mainland anoles different: An ecomorphological perspective, in Gamboa and BCI.

Katharina Wollenberg, Harvard University, to study why are mainland anoles different: an ecomorphological perspective, in Gamboa and BCI.

Shane Campbell-Staton, Harvard University, to study why are mainland anoles different: An ecomorphological perspective, in Gamboa and BCI.

Elizabeth Cooke, Cambridge University, UK, to assess the importance of litter fall for tree growth and nutrient dynamics by a large scale litter removal experiment in tropical deciduous forest in Panama, on BCI.

Sean Higgins, University of California, Santa Cruz, to participate in the Environmental Education Community Outreach at Galeta.

Jesús Pérez, Panama, to study avian ecology on Isla Coiba.

Harriet Beaubien and Ainslie Harrison, SI, to participate in El Caño archaeological project, at the CTPA.



Sucre

Cooke

Interoceánico de Panamá ofrecerán “Panamá en el Smithsonian,” una serie de programas públicos y actividades educativas en Washington, DC, New York y Panamá hasta el 31 de mayo de 2010.

El martes, 14 de julio, Eduardo Díaz, director del Centro Latino, el director de STRI Eldredge Bermingham y Angeles Ramos, directora ejecutiva del Museo del Canal Interoceánico, afiliado al Smithsonian inauguraron el programa en el Auditorio de STRI en el Centro Tupper.

En su intervención, Díaz preguntó ¿Por qué Panamá? “Por qué Panamá es Panamá”, añadió. No sólo para los Estados Unidos, sino para el mundo, Panamá ha sido, desde que emergió, una

fuerza especial en el mundo, e importante para el Smithsonian.

“La biodiversidad de Panamá atrajo desde el inicio a los naturalistas del Smithsonian en 1910 y hoy, científicos de todo el mundo vienen a STRI para estudiar diferentes ambientes tropicales,” expresó Bermingham. “Nos sentimos orgullosos de participar en este programa para compartir los descubrimientos científicos en Panamá, y honrar a su gente y su cultura, quienes han sido nuestros socios en esta difusión de conocimiento por casi 100 años.

La serie “Panamá en el Smithsonian” inició en abril, con un concierto abierto al

público en Washington, DC por el compositor de jazz panameño Danilo Pérez. Algunas de las atracciones del programa incluyeron charlas magistrales por Líder Sucre y los científicos de STRI Richard Cooke y Stanley Heckadon-Moreno, un teatro de marionetas del Museo, un concierto para niños con el grupo Folklórico de Panamá en DC; un festival comunitario para celebrar el día de la herencia caribeña en New York, un día familiar en Punta Culebra en Panamá el 23 de agosto, y una conversación en vivo con Rubén Blades en DC.

Los visitantes en DC tendrán la oportunidad de experimentar una exhibición multi-sensorial, bilingüe que ilustra la historia natural y humana de Panamá desde el surgimiento del Istmo hace más de tres millones de años. “Panamanian Passages”, que se presentará en el Centro S. Dillon Ripley.

Gracias al programa “Panamá en el Smithsonian,” el cual incluye una serie amplia de actividades, los que visiten el Smithsonian tendrán la oportunidad de experimentar una serie de expresiones culturales panameñas, a la vez que algunos de los principales temas de reflexión de su pasado y presente,” expresó Ramos Baquero.

Let's plant trees in Ipetí!

We will meet on Sunday, August 2nd at STRI's Tupper Center at 7am. Transportation will be confirmed later

Please send name, e-mail and phone number of participants to: stricarbon@gmail.com by

July 27th

You will need your boots, water, and lunch. Everyone welcome!



¡Plantemos árboles en Ipetí!

Nos reuniremos el domingo 2 de agosto en el Centro Tupper de STRI a las 7am. El transporte será confirmado más adelante.

Favor enviar su nombre, teléfono, y correo a stricarbon@gmail.com a más tardar el 27 de julio. Deberá llevar botas, agua, almuerzo. Todos son bienvenidos!

New publications

Anker, Arthur, Hurt, Carla, and Knowlton, Nancy. 2009.

"Description of cryptic taxa within the *Alpheus bouvieri* A. Milne-Edwards, 1878 and *A. bebes* Kim and Abele, 1988 species complexes (Crustacea: Decapoda: Alpheidae)." *Zootaxa* 2153(July 9): 1-23.

Arnold, A. Elizabeth, Miadlikowska, Jolanta, Higgins, K. Lindsay, Sarvate, Snehal D., Gugger, Paul, Way, Amanda, Hofstetter, Valerie, Kauff, Frank, and Lutzoni, Francois. 2009. "A phylogenetic estimation of trophic transition networks for ascomycetous fungi: Are lichens cradles of symbiotrophic fungal diversification?" *Systematic Biology*: Online.

Collin, Rachel, Farrell, Paul, and Cragg, Simon. 2009. "Confirmation of the identification and establishment of the South American slipper limpet *Crepidatella dilatata* (Lamarck 1822) (Caenogastropoda: Calyptraeidae) in northern Spain." *Aquatic Invasions* 4(2): 377-380.

Murphy, Paul N.C., Bell, Andrew, and Turner, Benjamin L. 2009. "Phosphorus speciation in temperate basaltic grassland soils by solution ³¹P NMR spectroscopy." *European Journal of Soil Science* 60(4): 638-651.

Nock, Charles A., Geihofer, Daniela, Grabner, Michael, Baker, Patrick J., Bunyavejchewin, Sarayudh, and Hietz, Peter. 2009. "Wood density and its radial variation in six canopy tree species differing in shade-tolerance in western Thailand." *Annals of Botany* 104(2): 297-306.

Schultz, Tom D. and Fincke, Ola M. 2009. "Structural colours create a flashing cue for sexual recognition and male quality in a Neotropical giant damselfly." *Functional Ecology* 23(4): 724-732.

Sunshine Van Bael appointed STRI associate scientist

Sunshine "Sunny" Van Bael was recently appointed associate scientist at STRI. She has a Ph.D. from the University of Illinois, Urbana-Champaign. Van Bael studies how interactions among plants, animals, and microbes affect tropical communities. Her research includes vertebrate ecology, biodiversity in agricultural systems, and plant-insect-fungal interactions.

Van Bael's research in Panama began ten years ago with work on the importance of birds in regulating insect herbivore populations and reducing the damage they inflict in forest communities and organic cacao farms.

Lately, Van Bael's research has focused on cryptic fungal symbionts that live inside of plant leaves, called endophytic fungi. Van Bael would like to use knowledge about bird-insect and plant-fungal interactions in tropical forests to increase the biodiversity and improve the sustainability of farms in tropical areas. She is also currently involved in a working group to look at global trends in vertebrate predation on insects and

indirect effects on plants.

Sunny enjoys sharing her research with the public, and has been involved in advising undergraduates from Panama and abroad.

Recientemente, Sunshine Van Bael fue nombrada como investigadora asociada a STRI. Tiene un doctorado de la Universidad de Illinois, en Urbana-Champaign. Van Bael estudia cómo las interacciones entre plantas, animales y microbios afectan las comunidades tropicales. Sus estudios incluyen ecología de vertebrados, biodiversidad en sistemas de agricultura y las interacciones entre planta, insecto y hongo.

Las investigaciones de Sunshine en Panamá empezaron hace diez años con trabajos sobre la importancia de las aves en la regulación de las poblaciones de insectos herbívoros y cómo éstas reducen el daño que los insectos causan en las comunidades boscosas y en los cultivos orgánicos de cacao.



Sunshine Van Bael visiting the rice and yucca farms in Costa Abajo, west of Colon, on the Atlantic side.

Photo: Adalberto Gomez

Sunshine Van Bael visita cultivos de arroz y yuca en Costa Abajo, al oeste de Colón, en el Atlántico de Panamá.

Últimamente, las investigaciones de Van Bael están enfocadas en simbiosis de hongos crípticos que viven dentro de las hojas de las plantas, llamados hongos endófitos. Sunshine desea utilizar el conocimiento que posee sobre las interacciones entre aves e insectos y plantas y hongos en los bosques tropicales para aumentar la biodiversidad y mejorar la sustentabilidad de los cultivos en áreas tropicales.

Actualmente, también pertenece a un grupo de trabajo que estudia las tendencias globales en cuanto a la depredación de vertebrados en insectos y cómo esto afecta indirectamente a las plantas.

Sunny disfruta compartir sus investigaciones con el público y ha sido mentora de estudiantes de pregrado en Panamá y otros países.

Smithsonian Tropical Research Institute

Participa de:

Búsqueda del tesoro

Giras guiadas en el bosque y la playa

Taller de creatividad y muchas sorpresas más.

Celebra el día del niño/a con la naturaleza en el

Centro Natural Punta Culebra

Calzada de Amador

Horario 10:00 AM a 6:00 PM

DOMINGO 19 de Julio 2009

¡LOS NIÑOS ENTRAN GRATIS!

Contribución: mayores de 12 años \$2.00

☎ 212-8793/94 ✉ puntaculebra@stri.edu

More shrimps from Bocas: Biodiversity paradise

The figure and caption was taken from page 15 of:
Anker, Arthur, Hurt, Carla, and Knowlton, Nancy. 2009. "Description of cryptic taxa within the *Alpheus bouvieri* A. Milne-Edwards, 1878 and *A. hebes* Kim and Abele, 1988 species complexes (Crustacea: Decapoda: Alpheidae)." *Zootaxa* 2153(July 9): 1-23.

Color patterns of *Alpheus bouvieri* A. Milne-Edwards, 1878 [western Atlantic]

(A); *Alpheus bouvieri* [eastern Atlantic]

(B); *Alpheus javieri* n. sp.

(C, D); *Alpheus hebes* Kim and Abele, 1988

(E); and *Alpheus agillis* n. sp. [eastern Atlantic]

(F): A, male from Bocas del Toro, Panama; B, female from São Tomé; C, male from Punta Morales, Costa Rica; D, female from Las Perlas, Panama; E, male from Las Perlas, Panama; F, male from São Tomé.

The article can be seen at:
<http://www.mapress.com/zootaxa/list/2009/zt02153.html>

Or obtained from:
calderom@si.edu



A



C



E



B



D



F