

SCHEDULE: TRAVEL TOGETHER WITH BRAZILIAN TEACHERS: JULY 26-AUG. 8, 2009

AMAZON WORKSHOP

The 15 day Amazon/ Sao Paulo experience provides opportunity for remarkable international comparisons between ecosystems and educational systems. Content experts accompany participants and focus on science literacy, education, and the environment. Daily curriculum development is an integral part of the schedule. The Brazilian Team will provide local knowledge about education, the environment, specific ecosystem issues, and the culture of the people. Field studies and classroom applications are emphasized, enabling educators to constructively share experiences with their students. Each participant contributes a final project CD based on the workshop, to post on SCI-LINK and Instituto Sangari websites.

SAO PAULO WEEK ONE

- July 26: Morning arrival on international flights. Opening luncheon 12:00 noon. Orientation to Brazil, a unique country. Sao Paulo city tour of historic buildings, parks, and cultural entities. Visit major art collection at MASP and walk through the artisan craft fair nearby.
- July 27: Experts discuss Brazilian education, society and culture. Visit and tour local private school. Learn about special Brazilian foods. Walk through neighborhoods to local restaurant for dinner.
- July 28: Examine flora and fauna of Brazil at the Flower Market; learn from the director of the renowned Butantan Institute, producer of anti-venum, vaccines and serums; examine responses to the plague at the Museum of Microbiology; visit a public school.
- *July 29: A day in the Atlantic Rain Forest at the Parque Estadual da Cantareira. Hiking trails, museum and research presentations. Vegetation to 30 meters, trees to 40 meters. Great diversity of plants, many still unknown to science. Presentation Amazon – what to expect and preparation by Stubbs and Sangari staff.
- July 30: Visit Portuguese Language Museum. Investigation of Sangari quality education and curricular materials. University faculty and NGOs share research. Walk through, visit book and music stores at a popular mall. Identify and study large variety of Brazilian rocks and minerals on display.

AMAZON WEEK TWO

- July 31: Flight to Brazilia, the only city less than 100 years old listed as a world heritage site. Introduction to modern architecture and urban planning, visit Parliament, Itamaraty Palace, Three Powers Square and Cathedral of Brazil. Churrascaria lunch, visit school. Check in hotel.
- August 1: Flight to Manaus. Tour of the city, famous for its past and its wealthy rubber barons, opulent opera house, the Amazonas Theater, and City Market founded in 1882, and Rio Negro Palace. Lectures by naturalist, university faculty, and environmental educator about the significance of the Amazon. Boat tour to Meeting of the Waters.
- *August 2: Hike in Mindu Park, covering four distinct ecosystems and one of few remaining habitats for saim-de-coleira, a monkey species. Visit Natural Science Museum and INPA, a research institute focusing on preservation and sustainability. Lecture by John Harwood. Visit a water mammal laboratory and an orchid vivarium.
- August 3: Fly to Tefe and boat upriver to Uakari Lodge, located in the largest flooded forest in the world. The reserve is the first of a new model of conservation, which combines permanence of local population and sustainable

use of natural resources. Together with the Reserve of Amana and the Jau National Park, this forms the largest ecological corridor with an area of more than 5,000,000 hectares. Canoe among challels and lakes in the forest. Video presentation about surrounding ecosystem.

- August 4: Visit local school and village. Locally produced handicrafts may be exhibited – different for each community. Hike, go on canoe rides and even fish for piranha. See the Uscari monkey, sloths, dolphin (both the red and Tucuxi), caimen, birds and other species of mammals, reptiles and fish.

- August 5: Early morning animal sitings, in either hike or boat. Interpret the ‘varzea (flooded forest). Afternoon, visit with research team to participate in their field work. Night spotting tour. Visit a riparian family in a community of indigenous peoples who inhabit the river banks.

- August 6: Group presentations of participants. Hike, canoe, and visit to other communities. Research done at Mamiraua, award-winning BBC documentary on Mamiraua. Evening hike or canoe tour, with researchers of that area presenting their findings.

- August 7: Flight to Tefe to Manaus to Sao Paulo. Share experiences, evaluate the program, recommendations for 2010.

- *August 8: Last minute packing. Bid farewell to our Brazilian educators. Arrive at Guarulhos Airport by 6pm for international flights home.

HOW TO REGISTER

Further details at www.ncsu.edu/scilink/brazil or www.institutosangari.org.br

Submit the following:

1. Registration form online or download and mail form
2. Statement of Interest (1 page maximum, type-written)
3. Letters of recommendation (two)
4. \$225 non-refundable deposit (if no space available, or if workshop is cancelled due to lack of participants, fee will be returned)
5. Scholarship form to apply at: <http://www.ncsu.edu/sci-link>

Scholarship Competition.

Details at www.ncsu.edu/scilink

Have you:

1. Made Your Reservation? Send application form + non-refundable \$225 deposit to:

SCI-LINK/ BRAZIL

Box 7401, North Carolina State University

Raleigh NC 27695-7401

Email: sci-link@ncsu.edu

www.ncsu.edu/scilink

2. Made Payment? The cost of the Brazil Sao Paulo/ Amazon 15 day workshop is \$3650 for double occupancy and \$4600 for single occupancy + \$225 non-refundable deposit.

SCHOLARSHIPS ARE AVAILABLE FOR EDUCATORS. See www.ncsu.edu/scilink for information.

EARLY BIRD REGISTRATION BEFORE MARCH 15, REDUCE TOTAL BY \$100.

3. Booked Your Flight? Travel costs to and from Brazil are not included in the workshop fee. Make your travel arrangements with any travel agency, or book with Lisa Ward of Travel Experts, 212 Sawmill Road, Raleigh NC 27615. Phone: 919-846-2544 Fax: 919-846-0647.

AMAZON/ Sao Paulo workshop (July 26-August 8, 2009). Travel directly to/from Sao Paulo for *BRAZIL: Adventures in Ecology & Education*. Arrive prior to 12:00 noon July 26; fly home after 6pm August 8.

4. Have You Requested NCSU Credit? Request for education credit must be made at the time of registration. To obtain from 1-3 credits, additional requirements must be completed; the workshop is NOT part of the course. The online Brazil course EMS 496F 601, or EMS 594F 601 is available for 1 credit.

Have you:

- Registered?
- Paid for the workshop?
- Booked your air flight to Brazil?
- Requested credit if you want it?
- Obtained a Brazilian visa?
- A valid passport (expiration after Feb. 2010)?

SCI-LINK/ BRAZIL

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www.ncsu.edu/scilink

Program Coordinator: United States
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Program Coordinator: Brazil:
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Administrative Coordinator: Ms. Leslie Arias
Leslie.arias@institutosangari.org.br

PROGRAM COSTS cover the following expenses:

- AMAZON workshop: Airfare Sao Paulo – Amazon and return
- Program costs for duration of the program

- Field trips, transportation, entry fees to field sites
- Accommodations and three meals per day the duration of the program (except for three meals)
- Experts and guides in the field and in Sao Paulo
- Double occupancy rooms in Sao Paulo; dormitory accommodations in Amazon; roommates assigned

Additional expenses NOT covered by the registration fee:

- Transportation to and from Sao Paulo, Brazil
- Passports, visas, airport taxes
- Three meals at airports
- Costs of any side trips made during free time or outside of group activities
- Health insurance, pre-departure check-ups/inoculations
- Spending money for personal purchases
- Phone calls or personal expenditures such as laundry, bottled water, drinks, etc. in hotels or lodges. Bottled water is considered a personal expenditure in Brazil.
- Trip cancellation insurance for airfare
- Single occupancy rooms. Extra charge if available, only in Sao Paulo. If due to health considerations, a single occupancy room is a necessity, the participant will be billed.

Insurance is required, to include travel, medical, and personal belongings. A lap-top, camera and cell-phone will be helpful. Instituto Sangari is not responsible for non-refundable airline or other tickets or payments. In the event it is necessary to cancel, participants will be paid in full less \$300 up until June 15th. After June 15th, reimbursement in the event of cancellation will be at 50%.

Fifteen participants are required to run the Amazon workshop.

Special opportunity for groups of 15 or more:

If 15 participants are from any one institution or organization, one week can be tailored to their request. One week in Sao Paulo (overview and orientation to Brazilian culture and education); 2nd week different venue of choice. For these special circumstances, please contact H_Stubbs@ncsu.edu

PROGRAM DESCRIPTION

Brazil: Ecology and Education Adventures is designed for educators including teachers, pre-service teachers, university faculty, and administrators. Participants will visit the Atlantic Rain Forest, Amazon Rain Forest, and Sao Paulo, largest city in South America, the main economic, business center in Brazil. Study ecology and natural history. Meet experts and scientists. Focus on Brazilian education, visit schools, talk with Brazilian educational professionals. Qualified undergraduates may enroll with special permission. Curriculum development ideas enable ongoing networking and sharing of travel experiences in Brazil.

One to three education credits may be obtained from North Carolina State University with completion of special requirements (the workshop is NOT part of the course). Application for credit **must** be made at the time of registration. An additional online course has been added (see Course/ Credit).

PROGRAM LEADERS

Harriett S. Stubbs, Ph.D.

Research Associate Professor Emerita; Director, SCI-LINK. Member of the Department of Mathematics, Science and Technology Education at North Carolina State University. Interest in professional development programs for educators; ongoing research studying culture, environment, and education.

Ben Sangari

President, Sangari Brazil and founder of Instituto Sangari. Supports science education emphasizing quality educational experiences. Interest in hands-on science learning methods K-16; appropriate curriculum to meet national and state guidelines; and professional development activities of educators, leading to lifelong learning.

Brazilian Team

Arlita McNamee, Ingrid Imenez, Mariana Reis and staff of Instituto Sangari.

Daniel De Granville, biologist, nature photographer, guide and naturalist. Photographs of Granville's have been published by the National Geographic Society and Conservation International. www.photoinnatura.com and www.fotogramabits.blogspot.com.

Christiane Gioppo, Ph.D., NCSU and a faculty member, College of Education, Federal University of Parana, is developing alternative science materials for students and student teachers, with an oral history project (with photographs and satellite images) of local communities near natural areas.

Patricia Peres, MA, NC State University, emphasis environmental education. Peres directs projects in São Sebastião in outdoor environmental education for formal and informal educators.