

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

PANTANAL WORKSHOP

The 15 day Pantanal/ 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 MASP's major art collection, walk through the artisan craft fair on the street 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 – Pantanal, what to expect and preparations by Stubbs and Sangari staff.
- July 30: Visit Portuguese 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.

PANTANAL WEEK TWO

- July 31: Flight to Campo Grande; visit Dom Bosco Museum collections of 10,000 insects, 7,000 butterflies, and local Indian history. Travel to pousada in Pantanal; explore, and view along the way caiman, rhea, blue macaw, capybara, deer, and giant anteaters.
- August 1: On horseback, observe and photograph in fields, cerrado and forest. Natural habitat area for more than 650 different bird species, such as the American rhea, tuiuiu, toucan, egret and many others. Lectures by naturalist, university faculty, and environmental educator – what is significant about the Pantanal. Boat ride on the Aquidauana River and fish from the riverbanks.
- *August 2: Walk, hike on foot to observe the fauna in fields, savannas and woods. Nocturnal animal watch in open truck safari to see landscape and wildlife: caiman, giant anteaters, crab fox, small anteater, capybara. Owners show fossil collection and tell the history of this pousada.
- August 3: Visit local house for in-depth view of Pantaneiro life styles. Interaction with others on the pousada. Group meetings, presentations. Free afternoon to journal, photograph, repack.

* August 4: Wildlife Watch as we travel to and tour Bonito. Arrive, explore lodge and learn history of the area. Compare topography, soils, and socio-economic focus. Local Recycling Cooperative and NGO where families use recycled materials to support education. Higher education in Brazil. Group presentations.

• August 5: Visit Buraco das Araras, a large sink hole inhabited by 80 pairs of blue-red macaw. Rio da Prata Ecological Refuge. Snorkel the Olho D'Aqua's transparent blue waters to the Prata River. Hike along trails in the primary forest.

• August 6: Gruta do Lago Azul (Blue Lake Cave) optional or hike to waterfalls at Estancia Mimosa. Watch for monkeys, toucans, macaws in forest. Group meetings, sharing findings. Evaluations and recommendations.

• August 7: Leave for Campo Grande. Flight to Sao Paulo. Bid farewell to our Brazilian educators.

* August 8: Visit other points of interest in Sao Paulo. Last minute packing. 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 workshop cancelled due to lack of participants, deposit will be returned)
5. Scholarship form to apply at: <http://www.ncsu.edu/sci-link>

Scholarship Competition Scholarships may be available. 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/ Pantanal 15 day workshop is \$2360 per person for double occupancy and \$2995 per person 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.

Pantanal/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 credits, additional requirements must be completed; the workshop is NOT part of the EMS 594B 651 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

Box 7401, North Carolina State University
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Program Coordinator: United States

Dr. Harriett S. Stubbs, SCI-LINK
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Program Coordinator: Brazil:

Ms. Arlita McNamee, Sangari Institute
Rua Estela Borges Morato 336
Sao Paulo/SP, CEP:02722-000 - Brasil
Arlita.mcnamee@institutosangari.org.br

Administrative Coordinator: Ms. Leslie Arias

Leslie.arias@institutosangari.org.br

PROGRAM COSTS cover the following expenses:

- Pantanal workshop: Airfare Sao Paulo-Pantanal 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 at Pantanal and in Amazon; roommates assigned

Additional expenses NOT covered by the program 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, med-vac costs, health.
- 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 either the Pantanal or 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, Pantanal, 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.