

Program for the 43rd Annual Meeting of the
SOCIETY FOR ECONOMIC BOTANY

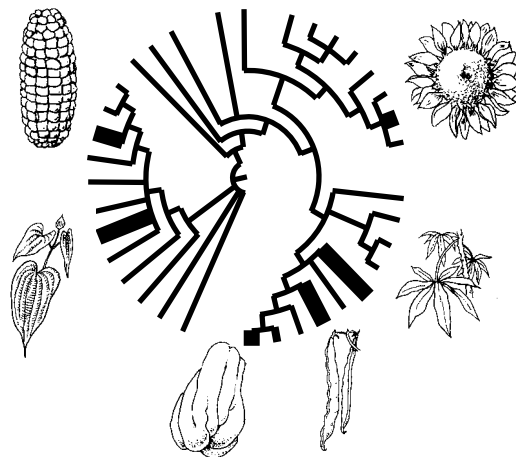
at

The New York Botanical Garden

June 22 - 27, 2002

Symposium I

**Origins, Evolution, and Conservation of Crop
Plants: A Molecular Approach**



Symposium II

**Assessing Local Management of Wild Plant
Resources: Approaches in Population Biology**

Workshop: Ethnobotanist's Digital Toolkit

Distinguished Economic Botanist:

Professor Sir Ghilleen T. Prance

David L. Lentz, Meeting Coordinator

SCHEDULE OF EVENTS

Saturday, June 22

- 8:00 am-2:30 pm Field Trips commence from the entrance of The International Plant Science Center (Ross Gallery, see Special Events/Tours/Fieldtrips section for details)
- 9:00 am Registration opens, Ross Gallery
- 9:00 am-12:00 pm Council Meeting in Watson Bldg., Room 301
- 12:00-1:30 pm Council Lunch, 4th floor of the Library Bldg.
- 1:30-5:00 pm Council Meeting in Watson Bldg., Room 301
- 5:00-7:00 pm Reception, Tulip Tree Mall/The Thekla E. Johnson Orchid Rotunda (rain location)

Sunday, June 23

- 8:30 am Registration opens, Ross Gallery
- 8:45 am Opening of meeting in The Arthur and Janet Ross Lecture Hall (enter through the IPSC entrance)
- 9:00 am Symposium I (ORIGINS, EVOLUTION, AND CONSERVATION OF CROP PLANTS: A MOLECULAR APPROACH) Lecture Hall (Organizers: Timothy Motley, Hugh Cross, and Nyree Zerega)
- 9:00 am **Timothy Motley**: Crop evolution: Past, present, and future.
- 9:30 am **Barbara Schaal, Kenneth Olsen, and Luiz Carvalho**: Molecular studies on the evolution and conservation of the tropical crop cassava.
- 10:00 am **Hugh Cross, Rafael Lira, and Timothy Motley**: Origin and genetic diversity of chayote (*Sechium edule*).
- 10:30-11:00 am Coffee in the Orchid Rotunda
- 11:00 am **Mallikarjuna Aradhya, Daniel Potter, and Charles Simon**: Cladistic biogeography of *Juglans* (Juglandaceae) based on cpDNA intergenic spacer sequences.
- 11:30 am **Mary Eubanks**: Intergenomic recombination: The foundation for maize biodiversity.
- 12:00 pm **Edward Buckler, Sherry Whitt, and Larissa Wilson**: Maize domestication and selection in the starch pathways.
- 12:30-2:00 pm Lunch break, optional box lunch
- 2:00 pm **Loren Rieseberg, John Burke, Abby Harter, and David Lentz**: Genetics and the domestication of sunflower.
- 2:30 pm **Nyree Zerega, Diane Ragone, and Timothy Motley**: Breadfruit origins and dispersal through the Pacific.
- 3:00 pm **Ken Birnbaum, Rob DeSalle, Charles M. Peters, and Philip N. Benfey**: In-situ crop conservation in avocado: How the culture of farming affects the genetics of crops
- 3:30-3:45 pm Afternoon Break
- 3:45 pm **Laurent Grivet, Jean-Christophe Glaszmann, and Angelique D'Hont**: Molecular evidence for sugarcane evolution and domestication.
- 4:15 pm **Roger Malapa, Gemma Arnau, Jean Louis Noyer, and Vincent Lebot**: Genetic relationships between *Dioscorea alata* L. and related Melanesian endemic species *D. nummularia* Lam. as revealed by AFLP markers.
- 4:45 pm **Paul Gepts, Roberto Papa, Alonso Gonzalez, Sylvaine Coulibaly, and Alfonso Delgado-Salinas**: Phylogeographic studies in *Phaseolus*.
- 5:15 pm Closing Comments
- 6:00-8:00 pm SEB BarBQ, Fordham University

Monday, June 24

- 8:30 am Registration opens, Ross Gallery
- 8:30 am Curator's Meeting on Ethno- and Economic Botany Collections, meet at Mosholu Gate
- 8:30-10:15 am Poster session (Library Bldg., room to right of the Rotunda). All poster presenters should stand by their posters during coffee breaks on Monday and Tuesday. Posters should be on display from Monday morning through Wednesday at noon.

- 8:30 am Contributed Papers Session I: Lecture Hall (enter through the IPSC entrance) Chair: David Lentz
- 8:45 am **Ehud Weiss and Mordechai Kislev:** Small-grain grasses and cereals as staple food at Epipalaeolithic Ohalo II, Israel.
- 9:00 am **Thomas C. Andres, Dolores R. Piperno, Jaime Estrella E, and Karen E. Stothert:** Morphological, ethnobotanical, and archaeological evidence of *Cucurbita ecuadorensis* as an ancient semi-domesticated.
- 9:15 am **Dolores R. Piperno:** Using phytoliths and starch grains to study Neotropical plant domestication.
- 9:30 am **Adriana Otero, Alejandro Casas, Carmen Bartolo, Edgar Pérez-Negrón, and Alfonso Valiente-Banuet:** Evolutionary changes in reproductive biology of *Polaskia chichipe* (Cactaceae) associated with domestication in the Tehuacán Valley, central Mexico.
- 9:45 am **Jeffrey Ross-Ibarra:** Evolution of recombination under domestication: A comparative analysis.
- 10:00 am **M. Patrick Griffith:** Evolution of two opuntoid crop plants, *Opuntia ficus-indica* and *Nopalea cochenillifera*.
- 10:15am **M. D. Merlin:** Archaeological evidence for the worldwide tradition of psychoactive drug plant use.
- 10:30-10:45 Coffee break

Contributed Papers, Session II, Chair: Ed Kennelly (Lecture Hall)

- 10:45 am **Bradley C. Bennett:** Doctrine of Signatures: An explanation of medicinal plant discovery or dissemination?
- 11:00 am **Isaac S. Bruck:** Ethnobotanically identified poisonous plants of the K'ekchi' Maya and the isolation and characterization of several novel Lobeline alkaloid analogs from *Hippobroma longiflora* (Campanulaceae).
- 11:15 am **Michael B. Casaus:** Plant beings and their role in the medical system of the Rarámuri of the Sierra Tarahumara, Chihuahua, Mexico.
- 11:30 am **Steven J. Casper and Walter H. Lewis:** Biodirected isolation and characterization of antimalarial components from *Persea* species.
- 11:45 am **Rebekah Chapman, James Affolter, David Giannasi, Stanley Kays, and Marta Lagrotteria:** Medicinal plant conservation and cultivation: A pilot study with lemon verbena, (*Aloysia triphylla*).
- 12:00-1:30 pm Lunch break, optional box lunch
- 12:00-1:30 pm Open viewing: Mertz Library Expansion Tours: Steere Herbarium and Plant Research Laboratory
- 1:30-5:00 pm Workshop, International Working Group on Taxonomic Databases for Plant Sciences (TDWG), Room 302, Watson Bldg.

Contributed Papers, Session III, Chair: Elli Wurtzel (Lecture Hall)

- 1:30 pm **Alfredo Gomez-Beloz:** The wound healing activity of ohoru (*Symphonia globulifera* L.f.) collected from the Orinoco River Delta, Venezuela.
- 1:45 pm **Scott M. Herron:** Today's traditional plant uses of the Anishinaabek Great Lakes Indians.
- 2:00 pm **Sarah Khan:** Ayurveda and diabetes mellitus.
- 2:15 pm **Luke Mease, Alexandra Paul, Christian Palmer and Kahale Pali:** Marquesan medicinal plants: A comparative study.
- 2:30 pm **Carsten Smith Olsen:** Commercial collection of Himalayan medicinal plants, I: The trade in *Nardostachys grandiflora* and *Neopicrorhiza scrophulariiflora*.
- 2:45 pm **Helle Overgaard Larsen:** Commercial collection of Himalayan medicinal plants, II: The effects of different collection methods on wild populations of *Nardostachys grandiflora*.
- 3:00-3:15 pm Afternoon break

Contributed Papers Session IV, Chair: Cynthia Gallagher (Lecture Hall)

- 3:15 pm **Christian Palmer:** Plants used to treat topical conditions in Ko'olauloa, Hawaii.
- 3:30 pm **Marie S. Standifer, Leon C. Standifer, and Shirley C. Tucker:** Habitat, uses, and morphological variation in *Erynigium yuccifolium* Michaux.

- 3:45 pm **John R. Stepp**: Variation in Tzeltal Maya medicinal plant knowledge.
- 4:00 pm **Rebekka Stone and Juan Almeyda, MD**: A comparative ethnomedical study of gardens in two urban communities of Tegucigalpa, Honduras.
- 4:15 pm **Larry M. Lake**: Food crop introductions in highlands West New Guinea 1938-1998: An ethnobotanical tale.
- 4:30 pm **Eve Emshwiller**: Comparing fluorescent AFLP data with the folk taxonomy of the clonally-propagated tuber crop oca (*Oxalis tuberosa*).
- 4:45 pm **Ernest Small**: Germplasm resources for development of *Cannabis sativa* (marijuana, hemp) for food, fiber, and medicinal purposes.
- 5:15 pm Depart from Mosholu Gate, N.Y. Mets vs. Atlanta Braves Baseball, Shea Stadium

Tuesday, June 25

- 8:45 am Registration opens, Ross Gallery
- 8:45 am-12:00 pm Workshop, International Working Group on Taxonomic Databases for Plant Sciences (TDWG), Room 302, Watson Bldg.
- 8:45-10:15 am Contributed papers session (Lecture Hall), Poster session (Library Bldg., room to right of Rotunda)

Contributed Papers, Session V, Chair: Christine Padoch (Lecture Hall)

- 8:45 am **Christian Reinhard Vogl**: The value of organic farming for the in-situ conservation of agrobiodiversity and related traditional ecological knowledge.
- 9:00 am **Timothy Johns and Pablo B. Eyzaguirre**: Development of a global strategy linking nutrition and health with plant genetic resource conservation.
- 9:15 am **Eva Doll Lehmbeck, Fabienne Taylor, and Adam Edwards**: Plants and Cultures of the Opa Locka/Hialeah Flea Market, Miami, FL.
- 9:30 am **My Lien T. Nguyen**: Traditions and evolution in cultural botanical knowledge among the Vietnamese of East and West.
- 9:45 am **Mary Theresa Bonhage-Freund**: The city in the country: Exploring the role of local resources in Old Albany, New York.
- 10:00 am **Valerie Imbruce and Christine Padoch**: The demand for diversity: Changing urban consumption patterns and their effects on production landscapes.
- 10:15 am **Daniela Soleri and D. A. Cleveland**: Investigating conceptual knowledge in ethnobiology: Methodology and opportunities for collaboration in plant breeding and genetic resource conservation.
- 10:30-10:45 am Coffee break

Contributed Papers, Session VI, Chair: Mike Balick (Lecture Hall)

- 10:45 am **Will McClatchey and K. W. Bridges**: Strong inference in ethnobotany.
- 11:00 am **Diane Ragone**: Botanical and ethnobotanical inventory of the National Park of American Samoa.
- 11:15 am **Mark Thomas Nickum**: Ethnobotany of a Tongan voyaging canoe: The Kalia Mileniume.
- 11:30 am **Roberta Lee, Robert Wolkow, Berry J. Brosi, Michael J. Balick, Mark Kostka, Bill Raynor, Robert Gallen, Ally Raynor, Pelihter Raynor, and Dana Lee Ling**: Traditional and contemporary use of Sakau (*Piper methysticum*) in Pohnpei, Federated States of Micronesia.
- 11:45 am **Berry J. Brosi, Michael J. Balick, Roberta Lee, Robert Wolkow, Mark Kostka, Bill Raynor, Robert Gallen, Ally Raynor, Pelihter Raynor, and Dana Lee Ling**: Assessing trends in Micronesian traditional knowledge.
- 12:00-1:30 pm Lunch break, optional box lunch
- 12:00-1:30pm Tours: Steere Herbarium and Plant Research Laboratory.

Contributed Papers, Session VII, Chair: Camille Tipton (Lecture Hall)

- 1:30 pm **Mark A. Blumler**: Introgression and invasion of *Avena barbata* in California and Oregon.
- 1:45 pm **Nancy J. Turner and Helen Clifton**: Traditional harvesting and processing of Red Laver seaweed (*Porphyra* spp.) on the north coast of British Columbia

- 2:00 pm **Miriam Kritzer Van Zant:** Ethnobotany of the Rosaceae in southern Illinois.
- 2:15 pm **Patricia Vera-Caletti and Heike Vibrans:** Uses and management of the genus *Casimiroa* (Rutaceae).
- 2:30 pm **Dan K. Evans and Daniel Chaffin:** Ethnobotany and secretory reservoir anatomy in leaves and bracts of *Clibadium surinamense* L. (Asteraceae), an Amazonian ichthyotoxic species.
- 2:45 pm **Camille Tipton-Allaband:** Novel dye plants and weaving techniques of the Huaorani, Ecuadorian Amazon
- 2:00-5:00 pm Workshop, The Ethnobotanist's Toolkit: Promising Digital Tools and Technologies, Room 302, Watson Bldg.
- 3:00-3:15 pm Afternoon break

Contributed Papers, Session VIII, Chair: Olga Orozco (Lecture Hall)

- 3:15 pm **Jennifer Cruse-Sanders, Jim Hamrick and Alejandro Casas:** Patterns of genetic diversity in *Stenocereus stellatus* (Cactaceae), a semi-domesticated species in central Mexico.
- 3:30 pm **Eglé L. Zent and Stanford Zent:** Knowledge and use of fungi by the Hoti: A mycophile society from the Venezuelan Amazon.
- 3:45 pm **Wilson Crone:** Economic botany in a distance learning format II: Experience from an intercampus course.
- 4:00 pm **Eugene Richard Chung:** Holy mole, it's biodiversity on a single plate! The ethnobotany of pepian and the moles.
- 4:15 pm **Basurto, Francisco, Virginia Evangelista, and Delia Castro:** Cultivation manners of *Capsicum* spp in the Sierra Norte de Puebla, México.
- 5:15 pm Depart from Mosholu Gate, Broadway show, "Phantom of the Opera"
- 6:00-8:00 pm Student party on the Snuff Mill Terrace

Wednesday, June 26

- 8:00 am Registration opens, Ross Gallery
- 8:00-10:15 am Posters (Library Bldg., right side of the Rotunda)
- 8:00-10:15 am Symposium II (ASSESSING LOCAL MANAGEMENT OF WILD PLANT RESOURCES: APPROACHES IN POPULATION BIOLOGY) Lecture Hall (Organizer: Tamara Ticktin)
- 8:00 am **Tamara Ticktin:** Assessing the harvest of non-timber resources from a population ecology perspective: a review of case-studies and suggestions for future directions.
- 8:20 am **Kristine Stewart:** Using Population Viability Analysis (PVA) to assess harvest impacts.
- 8:40 am **Deanna Christensen and David L. Gorchov:** Projecting the effect of harvest on the population biology of goldenseal, *Hydrastis canadensis* H., a medicinal herb in Ohio, USA forests.
- 9:00 am **Byran A. Endress and David L. Gorchov:** Linking communities and experimental ecology: the harvest of *Chameadoreia radicalis* in the El Cielo Biosphere Reserve, Mexico.
- 9:20-9:35 am Coffee break
- 9:35 am **Aditi Sinha and Kamaljit Bawa:** Demographic models for monitoring and managing populations of nontimber forest products.
- 9:55 am **Javier Caballero, Andrea Martinez, Maria Teresa Pulido and Maria Eugenia Correa:** Directed and undirected management of plant populations by the Yucatec Maya: Historical implications and practical applications.
- 10:25 am. **Jan Salick and Heidi H. Schmidt:** Population ecologies of Tibetan medicinals: Implications of monocarpy for sustainable management.
- 10:45-11:00 am Coffee break
- 11:00 am **Campbell Plowden, Christopher Uhl, and Francisco de Assis Oliveira:** The harvest and management potential of titica vine roots (*Heteropsis* spp.) in intact, burned and logged forests in the eastern Brazilian Amazon.
- 11:20 am **Charles M. Peters:** Population ecology and the management of tropical resources: A plea for parsimony and participation.
- 11:40 am **Julie Velasquez Runk and Mark Wishnie:** Harvesting utility: Population ecology methods for local application.
- 12:00-1:30 pm Lunch break, optional box lunch

- Contributed papers, Session IX, Chair: Julie Velasquez Runk (Lecture Hall)
- 1:30 pm **Bruce Hoffman:** Demography, canopy cover, and aerial root production of *Clusia grandiflora* and *Clusia palmicida* five years after NTFP harvest in Guyana, South America.
- 1:45 pm **Mark Plotkin:** Biocultural conservation in the Amazon: The ACT experience
- 2:00 pm **David E. Williams, Andrew Jarvis, Karen A. Williams, and Luigi Guarino:** GIS-assisted exploration for plant genetic resources in Paraguay
- 2:15 pm **Patricia Shanley, Margaret Cymery, Leda Luz, and Gabriel Medina:** Logging and livelihoods: Thresholds and prospects for compatibility in eastern Amazonia.
- 2:30 pm **Maria Fadiman:** Use of piqigua, *Heteropsis ecuadorensis* (Araceae) in northwestern Ecuador.
- 2:45 pm **Alice Benzecry and Ruth Dweck:** Economic value of Bignoniaceae lianas from the forests of the Coto Brus region, Costa Rica.
- 3:00 pm **Krisa Fredrickson:** The consumption of aloeswood and the incense culture of Japan.
- 3:15-4:15 pm Presentation, Intellectual Imperatives in Ethnobotany: Discussion of NSF Workshop, Room 302, Watson Bldg.
- 4:15-5:15 pm Business Meeting, Lecture Hall
- 6:00-7:00 pm Cash bar at Snuff Mill
- 7:00-9:30 pm Banquet, Snuff Mill, After-Dinner Speaker: Distinguished Economic Botanist, **Professor Sir Ghillean T. Prance**

Thursday, June 27

- 8:00-9:00 am Meet at Mosholu Gate for Field Trips to Bear Mountain, Central Park, and Staten Island (see Special Events/Tours/Fieldtrips section for details)

SPECIAL EVENTS/TOURS/FIELDTRIPS

BARBECUE AT FORDHAM UNIVERSITY

After the symposium on Sunday, June 23, 6-8 pm, we will have a traditional barbecue picnic on the campus of Fordham University, exact location to be announced. (Pre-registration required.)

BANQUET AT THE SNUFF MILL, THE NEW YORK BOTANICAL GARDEN

Join us on Wednesday evening (June 26, 7-9:30 pm) for an elegant banquet prepared by New York's most celebrated caterer, Abigail Kirsch. The evening repast will be topped off by brief award announcements and a lecture by this year's **Distinguished Economic Botanist: Professor Sir Ghillean T. Prance**. Free shuttle service from the Mosholu and Conservatory Gates will be provided. (Pre-registration required.)

STUDENT PARTY

A party just for economic botany students will be held on Tuesday night, June 25th from 6-8 pm. The event is designed to give students an opportunity to compare notes on different programs, share ideas on funding, and have a good time. Location will be at the Snuff Mill Terrace. Kurt Reynertson (kreynert@lehman.cuny.edu), City University of New York, will be the host.

SPECIAL EVENTS

The New York Mets vs. the Atlanta Braves: Baseball at Shea Stadium

This will be an exciting match-up between two National League rivals. These two teams, both loaded with talent, are sure to be contesting play-off spots for the pennant race. Monday, June 24. Depart from Mosholu Gate at 5:15 pm. Scott Baggett will be the host. (Pre-registration required.)

A Night on Broadway: "Phantom of the Opera" at the Majestic Theater

Phantom has been widely acclaimed as one of the most ingeniously staged plays on Broadway. The fantastic sets will amaze you. Also, the group leader will take you to one of our botanist's favorite eateries in Times Square after the show. So if you love theater productions on a grand scale plus

excellent food at a not-so-New York price, this will be a night to remember. Monday, June 25. Depart from Mosholu Gate at 5:15 pm. Rebekka Stone will be the host. (Pre-registration required.)

WORKSHOPS

International Working Group on Taxonomic Databases for Plant Sciences (TDWG). The focus is on making the Economic Botany Data Collections Standard more accessible and convenient for institutions and researchers recording economic and ethnobotanical data. Topics include changes that have been proposed to the EBDCS and the difficulties faced by those implementing its use, as well as a presentation of research on an EBDCS Uses Key that will help avoid duplications and frustrations in determining which categories are suitable for data placement. Organized by Daphne Christopher.

The Ethnobotanist's Toolkit: Promising Digital Tools and Technologies. This workshop will demonstrate a plethora of new tools, neat gadgets, and useful technologies that make the study of the relationships between people and plants a bit easier and more efficient. We will examine some of the more promising digital tools for collecting and analyzing field data. Representative topics include: using a PalmPilot as a data recorder, linking GPS to computers, spatial analyses with ArcView, and the promise of digital video. Organized by Chuck Peters.

2nd Annual Curator's Meeting on Ethno- and Economic Botany Collections. Research of many ethno- and economic botanists depends heavily on these collections. Yet these collections have no standards of curation, nor any organization to facilitate collaboration among scientists. So, our 2nd Curatorial Workshop at the SEB meeting will continue to address our common needs. This workshop will be held off-site at the AMNH in their anthropology collections area, highlighting ethnobiological artifacts. Depart from the Mosholu Gate, Monday, at 8:45 am. Time of return: after lunch. Organized by Jan Salick.

Intellectual Imperatives in Ethnobiology: Presentation and Discussion of NSF Workshop. The National Science Foundation is funding a review and whitepaper of the state of ethnobiology and related research, methodology, analyses, education, and funding. The presentation will report on the workshop to elicit input from the SEB membership at large. We are trying to convince NSF to fund ethno- and economic botany and to bring our proposals up to standard. The workshop will be held at 3:15 pm on June 26, Room 301. Organized by Jan Salick.

FIELD TRIP SCHEDULE

Field trip organizer: Jan Stevenson (jstevenson@nybg.org)

Saturday, June 22, 2002

Urban Ethnobotany Field Trips:

Chinatown. Chinatown has been described as a Chinese colony within New York City. See Chinatown's vibrant foods, markets, and *Materia Medica* with ethnobotanist Meeyoung Choi. The light afternoon meal at a Chinese eatery will be extra, at participant's choice and expense. Departs from the Ross Gallery at 10:15 am and returns at 5:00 pm. (Pre-registration required.)

Union Square Market. New York's largest greenmarket brings the best of the local farms to the urban doorstep. See this favorite haunt of urban chefs with ethnobotanist Andreana Ososki. The light afternoon meal at an eatery near the Market will be extra, at participant's choice and expense. Departs from the Ross Gallery at 11:15 am and returns at 5:00 pm. (Pre-registration required.)

Little India. Immigrants say there is an unending creative flexibility in New York City that makes it feel much like the grit of India. Witness that creativity in the markets of Little India with ethnobotanist Sarah Kahn. The light afternoon meal at an Indian eatery will be extra, at participant's choice and expense. Departs from the Ross Gallery at 12:15 pm and returns at 5:00 pm. (Pre-registration required.)

Botánicas. Botánicas are small storefront shops associated with Caribbean and Latin American spiritual and ethnomedical systems. Compare several local botánicas with ethnobotanists Bekka Stone and Jolene Yukes. The light afternoon meal at a Latino eatery will be extra, at participant's choice and expense. Departs from the Ross Gallery at 1:15 pm and returns at 5:00 pm. (Pre-registration required.)

Economic Botany Tours of the Garden's Living Collections:

Plants of Flavor and Fragrance. The Enid A. Haupt Conservatory is a National Historic Landmark. Stroll through the galleries of the Haupt Conservatory and view plants important to the spice trade and the perfume industry. Discussions will range from ancient Egypt to the modern sensory revolution. This two-hour, docent-led tour departs from the Ross Gallery at 10:00 am and again at 1:00 pm.

Traditional and Shamanistic Uses of Rainforest Plants. This Conservatory tour will focus on plants used in Western medicine, with its controlled, fact-based approach to treatment. It will also consider plants used in South American shamanism, where illness is viewed both physically and spiritually. The two-hour, docent-led tour departs from the Ross Gallery at 10:30 am and again at 1:30 pm.

Yanomami Hammocks and Indigo Jeans: Classic Fiber and Dye Plants. This outdoor tour of the display gardens will explore the history of fibers and dyes and the significance of color in some societies. Time permitting, the group will peek into the Conservatory, to view some tropical fibers and dyes. This two-hour, docent-led tour departs from the Ross Gallery at 11:00 am and again at 2:00 pm.

Classic Plants to Restore, Energize, and Stimulate. Stroll through the *World of Plants* in the Enid A. Haupt Conservatory and hear how humans have turned to the plant kingdom to restore the intensity, force, and energy of youth. The focus will be on

appetite stimulants, body tonics, and aphrodisiacs. This two-hour, docent-led tour departs from the Ross Gallery at 11:30 am and again at 2:30 pm.

Sunday, June 23, 2002 (No SEB Field Trips. Symposium Day)

Monday, June 24, 2002

Behind-The-Scenes at the Garden (Lunchtime Tours)

Open Viewing of The LuEsther T. Mertz Library and The William D. Rondina and Giovanni Foroni LoFaro Gallery. The Mertz Library is one of the largest and most actively used botanical and horticultural libraries in the world. The holdings range from rare herbals and manuscripts from the 12th century to the most important modern research materials. The new Gallery offers changing exhibits from the Library's rarest holdings. Library staff will be on-hand for questions from 12:00 noon to 1:30 pm.

Tour of the Herbarium. Herbarium staff will introduce guests to The William and Lynda Steere Herbarium, one of the five largest herbaria in the world. Designed by one of the country's leading museum architects, the 70,000 sq. ft. facility houses 6.5-7 million specimens from every continent and dating from the 17th century. The 45-minute tour departs from the Ross Gallery at 12:15 pm and again at 12:45 pm.

Tour of the Plant Research Laboratory. Erica Kipp, Manager of the Plant Research Laboratory, will discuss the history of medicinal plant research at the Garden and plans for laboratory research at the Garden through the next decade. Guests will be introduced to the facilities currently used for mycology, structural botany, natural products chemistry, molecular systematics, and genomics. The 45-minute tour departs from the Ross Gallery at 12:15 pm and again at 12:45 pm.

Tuesday, June 25, 2002

Behind-The-Scenes at the Garden (Lunchtime Tours)

Tour of the Herbarium. Herbarium staff will introduce guests to The William and Lynda Steere Herbarium, one of the five largest herbaria in the world. Designed by one of the country's leading museum architects, the 70,000 sq. ft. facility houses 6.5-7 million specimens from every continent and dating from the 17th century. The 45-minute tour departs from the Ross Gallery at 12:15 pm and again at 12:45 pm.

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Wednesday, June 26, 2002 (No SEB Field Trips. Day for strolling the Garden.)

Thursday, June 27, 2002

Urban Ethnobotany Field Trips.

Day Hike in the Greenbelt of Staten Island. Garden graduate student and Staten Island native Lauren Raz will lead the group through the protected lands and historic landmarks in the heart of Staten Island. The day includes a ride on the Staten Island Ferry and stops at High Rock Park environmental education center, Moses Mountain, and the remote

Bloodroot Valley. Departs from the Mosholu Gate at 8:00 am and returns at 8:00 pm. (Pre-registration required.)

Surviving the Urban Jungle: Edible Plants of Central Park. Garden graduate student Nat Bletter will discuss some of the hundreds of edible wild plants that grow all around us. The group will also learn how to transform several of these wild things into tasty dishes that friends would never suspect came from the local flora. Bring your appetite and a container for carrying your wild harvest. Departs from the Mosholu Gate at 9:00 am and returns at 2:00 pm. (Pre-registration required.)

Field Trip to the Hudson River Valley, Designated by Congress as “The Landscape That Defined America,” a National Treasure, and a Place That Has Long Attracted Scientists, Artists, and Writers..

First stop is Bear Mountain State Park, inspiration for many painters of the Hudson River School. Systematic botanists Michael Nee and Daniel Atha will lead the group through Deciduous Upland Oak Forest against views of the Hudson and the Manhattan skyline. The second stop is Cabbage Hill Farm, part of *Saving Working Landscapes: A Campaign for Hudson Valley Farms*. This educational, working farm promotes sustainable agriculture, aquaponic technique, and preservation of rare animal breeds. Departs from the Mosholu Gate at 8:00 am and returns at 5:00 pm. (Pre-registration required.)