

Society for Economic Botany Annual Meeting
Tucson, Arizona, June 1- June 5, 2003
PRELIMINARY PROGRAM

Sunday, June 1

9:00 am - Noon Council Meeting
Noon - 1:00 pm Council Lunch
1:00 - 5:00 pm Council Meeting, continued.

Monday, June 2

8:00 am Registration, Continental Breakfast
9:45 am Call to Order, Daniel Austin, Meeting Coordinator
Welcome, Rick Brusca, Arizona Sonora Desert Museum
Welcome, Gary Martin, President, Society for Economic Botany
Symposium I. Ethnobotany of the Sonoran Desert and Vicinity. Organizers: Ana Lilia Reina and Steven P. McLaughlin
Session 1. Chair: Steven P. McLaughlin
10:00 am **Mark Dimmitt**: Introduction to the ecology of the Sonoran Desert region.
10:30 am **Amadeo M. Rea**: Economic botany vs. ethnobotany: what is the difference?
11:00 am **Wendy C. Hodgson**: Pre-Columbian agaves: living plants linking an ancient past in Arizona.
11:30 am **Elaine Joyal**: Palms and peoples in Sonora, Mexico.
12:00-1:00 pm Lunch Break
Session 2. Chair: Ana Lilia Reina
1:00 pm **David Yetman**: Columnar cacti in cultures of northwest Mexico.
1:30 pm **Thomas R. Van Devender** and **David Yetman**: Mayos and the tropical flora of southern Sonora.
2:00 pm **Noemí Bañuelos-Flores** and **Patricia L. Salido**: On plants, women and health: Mayo domestic medicine.
2:30 pm **Laura Monti**: Sonoran Desert plants selected by the Seri Indians for diabetes: adaptations and applications of *Opuntia bigelovii*, *Senna covesii*, *Rhizophora mangle*, *Bursera laxiflora* and *Krameria grayi*.
3:00 - 3:30 pm Afternoon Break
Session 3. Chair: Wendy Hodgson
3:30 pm **Richard Felger** and **Mary Beck Moser**: Seri ethnobotany revisited.
4:00 pm **Ana Lilia Reina G.** and **Thomas R. Van Devender**: Ethnobotany of the Maicoba Mountain Pima in eastern Sonora, Mexico.
4:30 pm **Robert Bye**: Beyond the desert: ethnobotanical studies in the Sierra Tarahumara, Chihuahua.
6:00 pm Social Event: *Barbacoa* at residence of Mark Dimmitt

Tuesday, June 3

8:00 am Registration and continental breakfast
8:00-12:00 noon Collections of Ethno- and Economic Botany Collections. Chair: Jan Salick. Classrooms 1 & 2.
Contributed Papers Session 1. Chair: TBA
9:00 am **Will McClatchey** and **Kim Bridges**: Emergent theories of human interactions with plants based on 56 years of *Economic Botany*.
9:15 am **Eugene Richard Chung**: A representative sampling of our biocultural diversity: ethnobiology of the National Heritage Fellows, Master Folk Artists of the United States.
9:30 am **Heidi Ballard**: Harvester knowledge and science: research on the impacts of harvesting salal (*Gaultheria shallon*) on the Olympic Peninsula, Washington.
9:45 am **My Lien T. Nguyen**: (Re)constructing culture in the Vietnamese Diaspora: the case of cookbooks.
10:00 am **Christian R. Vogl**, **Brigitte Vogl-Lukasser**, and **Helmut Reiner**: A documentation of the last remaining pockets of local knowledge on management and processing of *Brassica rapa* ssp. *rapa* (the turnip) in alpine eastern Tyrol (Lienz district).
10:15 am **Melissa S. May**: The forest for the trees? The political ecology of three carbon sink reserves within southern Brazil's Atlantic coastal forest.
10:30-11:00 am Morning Break

Contributed Papers Session 2. Chair: Marie Standifer

- 11:00 am **Marie Scott Standifer, Jenna Kuttruff, and Shirley C. Tucker:** Plant padding in prehistoric footwear from Arnold Research Cave, Missouri.
- 11:10 am **David L. Lentz, Jason Yaeger, and Cynthia Robin:** The pine tree trade: exchange and distribution among Late Classic Maya in the Upper Belize River Valley.
- 11:30 am **Emily McClung de Tapia, Diana Martínez Yrizar, Emilio Ibarra Morales, and Cristina Adriano Morán:** Prehispanic utilization of edible agricultural weeds in the Teotihuacan Valley, Mexico.
- 11:45 am **Gustavo S. Azenha:** Markets, resource-use dynamics, and deforestation: a comparative study of Pataxó craft production in the villages of Barra Velha and Boca da Mata (Porto Seguro, Bahia, Brazil).
- 12:00 noon **Irma G. López-Muraira, Ana G. Valenzuela-Zapata, and Laurentina Hernández:** Diversity of weeds in agave plantations in the Tequila region, Jalisco, Mexico.
- 12:15 am **Ana G. Valenzuela-Zapata and Gary P. Nabhan:** A new nomenclatural status proposed for tequila agaves group and blue agave (*Agave tequilana* Weber).
- 12:30 - 1:30 pm Lunch Break

Contributed Papers Session 3. Chair: Jan Timbrook

- 1:30 pm **Michael Plotkin, Forest Gauna, and Daniel Potter:** Ethnobotany of Mexican gardens in the Great Central Valley of California.
- 1:45 pm **Anne Frances:** A comparative study of Ngóbe (Guaymí) and Tico home gardens in southern Costa Rica.
- 2:00 pm **Jan Timbrook:** Sukinik'oy: a Chumash ethnobotanical garden.
- 2:15 pm **James A. Bauml:** Music medicine: a new ethnobotanical use category from the Sierra Madre Occidental of Mexico.
- 2:30 pm **Michael B. Casaus:** Quantitative ethnobotany and acculturation among the Rarámuri of the Sierra Tarahumara, Chihuahua, Mexico.
- 2:45 pm **Maria Fadiman:** Comparing resource use between three different ethnic groups in the Macho-Chindul Ecological Reserve, Ecuador.
- 3:00 - 3:30 pm Afternoon Break
- 3:00 - 4:00 pm Poster Session 1. All poster presenters should stand by their displays. Posters should be on display from 8:30 AM Tuesday to 5:00 PM Thursday.

Contributed Papers Session 4. Chair: Lindy Brigham

- 4:00 pm **Walter H. Lewis:** Traditional medicinal knowledge: its value and protection.
- 4:15 pm **Letitia M. McCune:** The importance of growth habit and habitat on the antioxidant activity of medicinal plant species.
- 4:30 pm **Lindy A. Brigham:** Production and distribution of antimicrobial naphthoquinones in the Boraginaceae.
- 4:45 pm **Karol Chandler-Ezell:** Dreadful drugs, doctors and disease: how do perceptions of conventional healthcare and personal risk lead to herbal remedies?
- 5:00 pm **Bradley C. Bennett:** Maikua to Burundanga: transformation of *Brugmansia* from a cultural keystone to a pernicious vice.
- 5:15 pm **Arieh Levine, Amy Brown, Jonathan D. Baker, and Janet Onopa:** Biocultural perspectives on traditional 'Awa use and the kava-kava controversy.
- 5:30 pm **Memory Elvin-Lewis:** Optimizing new therapeutic discoveries from ethnomedicine and ethnobotanical data.

Wednesday, June 4

8:00 am Registration and Continental Breakfast

Contributed Papers Session 5. Chair: TBA

- 9:00 am **Lisa Gollin:** Making scents of taban Kenyah (Kenyah medicines): subtle and profound sensory attributes of Kenyah Leppo` Ke plant therapies.
- 9:15 am **Margaret Delfeld:** *Coriaria microphylla* Poir. (Coriariaceae): was it a psychedelic plant in Guatemala?
- 9:30 am **Adam L. Edwards and Bradley C. Bennett:** What is cassina?
- 9:45 am **Stephen R. Hodges and Bradley C. Bennett:** The ethnobotany of *Pluchea carolinensis* in the botánicas of Miami, Florida.

- 10:00 am **Jan Salick, Jessica Woo, Ruth Sherman, Norbu Cili, An na, and Sonam Dorje.** Tibetan people, plant, and environmental interactions in Menri (Medicine Mountains), Eastern Himalayas.
- 10:15-10:45 am Morning Break
- Contributed Papers Section 6. Chair: Mary Eubanks
- 10:45 am **David A. Cleveland and Daniela Soleri:** Broadening Darwin's analogy to farmer selection: how farmer knowledge and practice can contribute to biological theory.
- 11:00 am **John Tuxill, José Luis Chávez-Servia, Jaime Canul Ku, Luis Búrgos May, Victor Interian Ku, and Devra Jarvis:** Environmental variability, farmer experimentation, and the conservation of crop diversity in Mayan milpas of Yucatan, Mexico.
- 11:15 am **Luis M. Arias, D. E. Williams, L. Latournerie, E. Sauri, G. Balam, J. L. Chávez, and A. Ramírez:** Maize and man in the Maya Southern of Mexico: comparing local and scientific classification of Yucatan landraces.
- 11:30 am **Mary W. Eubanks and James F. Reynolds:** Investigation of enhanced drought tolerance in corn.
- 11:45 am **Adriana Otero-Arnaiz, Alejandro Casas, and James L. Hamrick:** Genetic variation of wild and managed populations of *Polaskia chichipe* (Cactaceae) in the Tehuacan Valley, Central Mexico.
- 12:00 noon **Diane Ragone:** Seasonality studies and evaluation of breadfruit germplasm.
- 12:15 pm **Eric J. Votava, Jit Baral, and Paul W. Bosland:** Genetic diversity of chile (*Capsicum annum* L. var. *annuum*) landraces from northern New Mexico.
- 12:30-1:30 pm Lunch Break
- Contributed Papers Session 7. Chair: Catherine Fowler
- 1:30 pm **Eve Emshwiller:** Conservation and evolution of clonally-propagated crops: what do we need to know?
- 1:45 pm **Jennifer Cruse-Sanders and James L. Hamrick:** Conservation of genetic diversity in wild American ginseng (*Panax quinquefolius*) under varying harvest pressure.
- 2:00 pm **Andrew Salywon, David A. Dierig, Diana Jasso de Rodríguez, and Jon P. Rebman:** Acquisition and new crop development of *Lesquerella* and *Physaria* germplasm from the U.S. and Mexico.
- 2:15 pm **Kelly Kindscher:** Conservation status of *Echinacea* species on public and private lands.
- 2:30 pm **Heather McMillen and Lisa X Gollin:** For the love and hate of aliens: biodiversity management and local perspectives on native/introduced plants in Hawai'i.
- 2:45 pm **Catherine S. Fowler, Pauline Esteves, and Bill Helmer:** The Timbisha Shoshone tribe's honey mesquite protection and restoration project.
- 3:00-3:30 pm Afternoon Break
- 3:00 - 4:00 pm Poster Session 2. All poster presenters should stand by their displays. Posters should be on display from 8:30 am Tuesday to 5:00 pm Thursday.
- Contributed Papers Session 8. All Trees Considered. Chair: Daniela Soleri
- 4:00 pm **Hector M. Castañeda:** Ethnoecological aspects of the *Myroxylon balsamum* (L.) Harms cultivation system in El Salvador: a case study.
- 4:15 pm **Campbell Plowden:** The production ecology and harvesting economics of copaiba (*Copaifera* spp.) oleoresin in the eastern Brazilian Amazon.
- 4:30 pm **Orlo C. Steele:** Cultural use and importance of mangrove species in Samoa, Tonga and Fiji.
- 4:45 pm **Kevin Jernigan:** An investigation of tree identification methods among the Aguaruna Jívaro of the Peruvian Amazon.
- 5:00 pm **John Rashford:** Alternative perspectives on the introduction of the African baobab (*Adansonia digitata*) into India.
- 5:15 pm **Daniela Soleri:** Understanding processes affecting distribution and diversity of an introduced crop: historic olive trees in the central coast of California.
- 5:30 pm **Donald R. Hodel:** Past and present date palm (*Phoenix dactylifera* L.) cultivation in California.
- 5:45 pm **Dennis V. Johnson:** Past and present date palm (*Phoenix dactylifera*) cultivation in northwestern Mexico and Arizona.

Thursday, June 5

8:00 am Registration and Continental Breakfast

Symposium II: Symposium on ethnobotany of southern Mexico. Organizers: Gary J. Martin, John R. Stepp, and Tamara Ticktin

Session 1. Knowledge and use of resources. Chair: Tamara Ticktin

8:45 am **Gary J. Martin, John R. Stepp, and Tamara Ticktin:** Introduction. Ethnobotany in southern

- Mexico: understanding people and plant relationships in a biocultural hotspot.
- 9:00 am **Brent Berlin:** The common flora is the medicinal flora: theoretical implications of a comparison of medical ethnobotanical and general floristic surveys in the Chiapas Highlands.
- 9:30 am **John R. Stepp:** Specialized vs. generalized ethnobotanical knowledge of medicinal plants in southern Mexico.
- 10:00 am **Gary J. Martin and Søren Wichmann:** Identifying Mixean ethnobotanical key stone species through comparative linguistics.
- 10:30 am Morning Break
- 11:00 am **Eugene Hunn:** Comparing ethnobotanical knowledge among communities to test for the effects of linguistic and economic assimilation.
- 11:30 am **Barbara Frei Haller and Michael Heinrich:** Comparing Zapotec and Mixe medicinal plant uses.
- 12:00 noon **Daniela Soleiri, David Cleveland, and Flavio Aragón Cuevas:** Farmer's conceptual knowledge and values regarding maize improvement and transgenes in the Central Valleys of Oaxaca.
- 12:30 - 1:30 pm Lunch Break
- Session 2. Conservation and management of resources. Chair: John R. Stepp
- 1:30 pm **Javier Caballero, María Eugenia Correa, Abigail Nieves, Laura Cortés, and Carlos Matorell:** How to manage a plant resource? Cultural and ecological factors that regulate plant management by the Yucatec Maya.
- 2:00 pm **Patricia Colunga García-Marín, Daniel Zizumbo-Villarreal, and Rocio Ruenes Morales:** Domestication of plants in Maya lowlands.
- 2:30 pm **Tamara Ticktin and Fernando Ramírez Ramírez:** Local management of plant populations and metapopulations in the Sierra Santa Marta, Mexico: implications for use and conservation.
- 3:00 - 3:30 pm Afternoon Break
- 3:30 pm **Silvia Purata:** *Bursera* wood and resin extraction in Oaxaca, Mexico: common property, community forestry, the tragedy and the triumph.
- 4:00 pm **Fabio Pedro Bandeira, Carols Martorell, Javier Caballero, and Jorge Meave:** Floristic heterogeneity in rustic coffee plantations, and its role in the conservation of plant diversity: a case study of the Chinantec region of Oaxaca, Mexico.
- 4:30 - 5:30 pm Business Meeting
- 5:30 pm Pre-banquet Wine and Cheese Social
- 7:00 - 9:00 pm Banquet, Arizona-Sonora Desert Museum. After dinner speaker: **Daniel Zohary**, Distinguished Economic Botanist, 2003.

Poster Presentations:

- Summer Austin**, and **Michael B. Thomas**: Survey of medicinal plants of Portland, Jamaica.
- Rachel Bell**, and **Donna Ford-Werntz**: A taxonomic analysis of *Allium tricoccum* s. l.
- Joanne Birch**, and **Beryl B. Simpson**: The pharmacopoeia of Dr. Gideon Lincecum: taxonomic identifications.
- Deanna Bodey**, **David Dierig**, and **Pernell Tomasi**: Growth phases of *Lesquerella fendleri* and *L. pallida* in response to two different temperatures.
- Juanita Choo**: A phylogenetic perspective on the ethnobotany of palms (Arecaceae).
- Eve Emshwiller**, **Christine Niezgodá**, and **Ines Schönberger**: Storage solutions for economic botany collections.
- Miguel González-Botello**, and **Eduardo Estrada-Castillón**: Cacti with traditional and potential uses in the state of Nuevo Leon, Mexico.
- Carmen González-Soberanis**, and **Alejandro Casas**: Traditional management and domestication of tempesquistle, *Sideroxylon palmeri* (Sapotaceae) in the Tehuacán-Cuicatlán Valley, central Mexico.
- Eric Harris**: Ethnobotany of small things: examples from the history of moss taxonomy.
- Susannah Johnson-Fulton**, and **Jill Pruetz**: Preliminary studies of the ethnobotany of savanna chimpanzee food plants in southeastern Senegal, west Africa.
- Betony Jones**: Webs and strands: patterns and processes of environmental knowledge creation, transmission, and change among the Rungus of Sabah, Malaysia.
- Sarah Khan**: "Madhumeha": diabetes mellitus and classical Ayurvedic formulations for treatment.
- Amanda Koch**, **Joann Scurlock**, **Burton Anderson**, and **Djaja Soejarto**: Elucidating an herbal handbook from ancient Mesopotamia.
- Joshua Lambert**, **Ross Meyers**, **Ann Dougherty**, **Colby Caldwell**, **Robert Dorr**, and **Barbara Timmermann**: Cytotoxic lignans from *Larrea tridentata* (Zygophyllaceae).
- Pesach Lubinsky**: Plant-human interactions: an interactive CD-ROM for ethnobotanists.
- Eugenia Lugo Cervantes**, **C. Flores Chavira**, and **Raymundo Ramírez Delgadillo**: Distribution of *Ditaxis heterantha* Zucc. (Euphorbiaceae) in central and western Mexico.
- Jaime Martínez-Castillo**, **Daniel Zizumbo-Villarreal**, **Hugo Perales-Rivera**, and **Patricia Colunga García-Marín**: Intraspecific diversity and morpho-phenological variation in *Phaseolus lunatus* L. from the Yucatan Peninsula, Mexico.
- John McCloy**: Chia: a Tucson super seed?
- Laurie Monti**: The ironwood tree as habitat for medicinal plant communities in the Sonoran Desert: a case for ethnobiological conservation.
- Sergio Moreno Salazar**, **Araceli Enriquez Verdugo**, **Carolina Cuamea López**, **Ramón Robles Zepeda**, **Enrique Bolado Martínez**, and **Teresa Medrano Candelas**: Antimicrobial activity of thirty species used by ethnic groups of Sonora, Mexico for gastrointestinal disorders.
- Aswini Pai**, and **Brian C. McCarthy**: Response of *Acorus calamus* L. rhizome to shade, moisture and nutrient treatments.
- Dana Price**, and **Martin Terry**: A tale of two cacti: impact of the peyote (*Lophophora williamsii*) trade on endangered star cactus (*Astrophytum asterias*).
- J. Giles Waines**, and **Francisco J. Ibarra-Perez**: Pollination biology of domesticated tepary bean (*Phaseolus acutifolius*).
- Laura Weiss**, and **Eugenio Santiago**: Medicinal plant usage in the rural tropical town of El Verde, Puerto Rico.
- Dawn Youngblood**: Identification and quantification of edible plant foods in the Karoo, South Africa.