



THE BEAN BAG

**A newsletter to promote communication among research scientists
concerned with the systematics of the Leguminosae/Fabaceae**

Number 39

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From the Editors

Joseph H. Kirkbride, Jr. and John H. Wiersema

The *Bean Bag* (BB) is designed to promote communication among research scientists concerned with legume systematics. To achieve this goal the BB is issued in May and November of each year and features six columns: From the Editors, News (meetings, major events, announcements, etc.), Latin American Legume Report, Nodulation and Nitrogen Fixation (new nodulation records), New Readers, Gleanings, and Recent Legume Literature. Data in the Gleanings column are derived from questionnaire sheets which Readers complete and return. If you have news about legume systematics, send it to us for this column. The Recent Legume Literature column contains published research papers of specific interest to BB Readers. Recent is defined as one year old. We rarely will publish a citation that is more than one year old. Specific interest to BB Readers is defined as research papers of interest to a worldwide group of legume systematic botanists. We encourage BB Readers to send us notices, observations, etc.

Diacritical marks can now be placed in the BB. If such marks should be placed in your name, address, publications, etc., please let us know. We are especially interested in correcting our Directory.

Electronic copies of the BB and the *Directory* can be obtained from TAXACOM or through Internet at HUH.HARVARD.EDU. TAXACOM is a free online service for biosystematics and biogeography at the Buffalo Museum of Science, Buffalo, New York, USA. The system operator is Dr. Richard H. Zander. TAXACOM is available 24 hours daily at telephone number 716-896-7581 using 2400/1200/300 bps, 8 data bits, 1 bit stop, and no parity. Outside of the USA use CCITT at 2400 bps, otherwise use Bell protocols. HUH.HARVARD.EDU is a free service on Internet maintained by Dr. James Beach at the Harvard University Herbaria, Cambridge, Massachusetts, USA. Connect to HUH.HARVARD.EDU via FTP using the name FTP and the password FTP, and copies of the BB and the Directory are in the subdirectory /PUB/NEWSLETTERS/BEANBAG.

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SYMPOSIUM ON ADVANCES IN FABACEAE

Mar del Plata, Argentina
2-8 October 1994

The Symposium will be part of the VI Congresso Latinoamericano de Botánica to be held in Mar del Plata, Argentina, 2-8 October 1994. The main objectives of the Symposium will be to discuss aspects of our knowledge of legume systematics after the 3rd International Legume Conference, including systematics of the higher groups, phytogeography, new lines in research, and databases. The Symposium will provide an opportunity to publicize recent results in legume research and widen contacts among research scientists in Latin America. The symposium will last two and a half hours with 30 minutes for each lecture and 30 minutes for the final discussion period. Coordinators: Biol. Harold C. de Lima and Eng. Agr. Renée H. Fortunato.

Lectures

1. *The present state of Fabaceae systematics.*
Speaker: G.P. Lewis, Royal Botanic Gardens, Kew, Great Britain—A synthesis of the present level of knowledge of the Fabaceae after the 3rd International Legume Conference. The lecture will focus on advances in systematics of the higher taxonomic levels: order, family, subfamily, tribe, and genus.
2. *Origin, diversity, and phytogeography of Neotropical Fabaceae.*
Speaker: M. Lavin, Montana State University, USA—A synthesis of our present knowledge of the origin, relationships, and phylogeny of Neotropical Fabaceae, focusing on the centers of diversity and main patterns of geographical distribution.
3. *New lines of research in Fabaceae systematics.*
Speaker: A. Delgado Salinas, Herbario Nacional, México—An overview of recent advances in the application of new methods and techniques in Fabaceae systematics, such as DNA, ontogeny, phytochemistry, reproductive biology, and cladistic analysis.
4. *Fabaceae databases: Priorities and perspectives.*
Speaker: F.A. Bisby, Southampton University, Great Britain—Information and services of the databases on the Fabaceae already in existence, focusing on the availability of software and the participation of specialists and institutions in Latin America.

For additional information, contact: Haroldo C. de Lima, Jardim Botânico do Rio de Janeiro, Rua Pacheco Leão, 915, 22460-051 Rio de Janeiro, RJ, Brasil; FAX: 021-512-2077; e-mail: pmajb92@ibase.br.

International Workshop on ALBIZIA and PARASERIANTHES Species

13-19 November 1994
Davao City, Philippines

Tropical forests are disappearing at an alarming rate as the demand for tropical forest products increases with world population. To protect these natural forests, the production of fuel, food, fodder, timber, poles, and other tree products must be shifted to plantation and farm forestry systems. *Albizia* and *Paraserianthes* species have great potential to protect the land and provide valuable products through plantation and farm forestry in the tropics. This workshop is being organized to bring together researchers and practitioners to develop production systems using *Albizia* and *Paraserianthes* that will shift pressure away from the world's tropical forests.

The objectives of the workshop are to: 1. increase the knowledge of development workers and scientists concerned with the utilization and management of *Albizia* and *Paraserianthes* species in plantation and farm forestry by exchanging information and documenting current research, 2. increase the use of *Albizia* and *Paraserianthes* species in agroforestry systems by providing extensionists, development workers, and farmers with practical information in a readily usable form, and 3. increase research support for *Albizia* and *Paraserianthes* species by identifying research priorities and initiating collaborative networks.

The workshop will be conducted in English. The schedule will include 40 invited and contributed papers with 15 minutes allocated for each paper presentation followed by five minutes for discussion. There will also be an opportunity for 20 poster presentations. These may be included in

the proceedings if prepared in full. Working groups will meet during the workshop to summarize current research, develop an action plan for future research, and write or edit chapters of a silvacultural field manual on the production and use of *Albizia* and *Paraserianthes* species. There will also be field trips to project sites where these species have been planted.

Workshop results will be presented in: 1. A proceedings volume that will include selected papers and working-group recommendations, 2. a silvaculture field manual on the production and use of *Albizia* and *Paraserianthes* species, 3. two new *NFT Highlights* on *Albizia* species, 4. updated *NFT Highlights* on *Albizia lebeck* and *Paraserianthes falcata*, 5. an action plan for future research and development of *Albizia* and *Paraserianthes* species, and 6. a worldwide network of scientists and development workers concerned with *Albizia* and *Paraserianthes* species.

For further information contact: James M. Roshetko, Nitrogen Fixing Tree Association, 1010 Holomua Road, Paia, Hawaii 96779-9744, USA; Telephone: 808-579-9568; FAX: 808-579-8516.

The Rupert Barneby Award

Enrique Forero

The New York Botanical Garden is pleased to announce that Dr. André Mauricio de Carvalho of the Centro de Pesquisas do Cacau, Itabuna, Brasil, and Prof. Ricardo Vanni of the Instituto de Botánica del Nordeste, Corrientes, Argentina, are the recipients of the 1993 *Rupert Barneby Award*. Dr. Carvalho will use his award to continue his work on a taxonomic treatment of New World *Dalbergia*. Prof. Vanni will be able to further his studies of *Zornia* sect. *Anisophylla* in South America and *Stylosanthes* for the floras of Argentina and Paraguay.

The New York Botanical Garden invites applications for the 1994 *Rupert Barneby Award*. The award of US\$1,000.00 is to assist researchers planning to come to The New York Botanical Garden to study the rich collection of Leguminosae. Anyone interested in applying for the award should submit their curriculum vitae and a letter describing the project for which the award is sought and how the collections at NYBG will benefit their research. Travel to NYBG should be planned between January 1, 1995 and January 31, 1996. The letter should be addressed to Dr. Enrique Forero, Director, Institute of Systematic Botany, The New York Botanical Garden, Bronx, NY 10458-5126 USA, and received no later than December 2, 1994. Announcement of the recipient will be made by December 16th. Anyone interested in making a contribution to *The Rupert Barneby Fund in Legume Systematics*, which supports this award, may send their check, payable to The New York Botanical Garden, to Dr. Forero.

Smithsonian Institution's Natural History Gopher Server

Warren L. Wagner

The Department of Botany of the National Museum of Natural History, Smithsonian Institution, is pleased to announce the inauguration of a Gopher Server that will provide Internet access to databases and documents that have been created or are now managed by their staff. The following are accessible on the Natural History Gopher Server:

1. *Type Specimen Register, U.S. National Herbarium*: The Type Register of the U.S. National Herbarium provides label and bibliographic data for more than 88,000 types that are included in the 4.5 million-specimen collection. Type specimens are among the most frequently consulted specimens in herbaria since their interpretation helps fix the application of scientific names. The register includes not only label data, but also indicates whether or not bibliographical information associated with a type specimen was verified by our staff.

2. *ASPT Newsletter*: The *ASPT Newsletter* (1987-present), published quarterly by the American Society of Plant Taxonomists, and currently being edited at the National Museum of Natural History, focuses on matter of interest to the plant taxonomy community. It includes news items and information on awards and funding; job opportunities; internships and fellowships; symposia and meetings; flora projects; and new books, serials, and newsletters. Recent issues of the *Newsletter* may be browsed or

searched. A search will return relevant sections from all of the issues posted on the Gopher Server. The *Newsletter* will become an important electronic archive of contemporary activity in the field of botany.

3. *Biological Conservation Newsletter and Bibliography*: The *Biological Conservation Newsletter* (1981-present), a monthly publication of the Department of Botany, serves the biodiversity research and conservation communities. It has articles on conservation research and news items. It also provides an important compilation of new publications, fellowship and grant opportunities, job announcements, educational materials, and meetings. An extensive bibliography of relevant current literature is a useful service provided in each issue. Recent issues of the *Newsletter* will be available, along with the cumulative bibliography of more than 6,400 references.

4. *Historical Collections in the U.S. National Herbarium*: The Index to Historical Collections is a list of the major collections acquired by the U.S. National Herbarium through 1965. When known, information is provided on the size of the collection and its place of origin. This index, with more than 1,600 records, is the most comprehensive account of the collectors represented in the U.S. National Herbarium. The information can be searched by the name of the collector or a geographical locality. It is a valuable reference for systematists seeking to locate specimens and for historians documenting botanical collecting expeditions.

5. *Plants of the Guianas*: The *Checklist of the Plants of the Guianas (Guyana, Surinam, French Guiana)* (1992), produced by the Smithsonian's Biological Diversity of the Guianas Program in collaboration with ORSTOM, Cayenne, French Guiana, accounts for all of the vascular plants, bryophytes, and Characeae (algae) known to occur in these three countries of northeastern South America. Accepted names, distribution by country, limited synonymy, and references are among the information included. The original publication has been reproduced on the Gopher Server.

The addresses of the Natural History Gopher Server are nmnhgoph.si.edu or 160.111.64.84, port 70.

For further information contact: Dr. Ellen Farr, Department of Botany, NHB 166, Smithsonian Institution, Washington, D.C. 20560 USA; telephone: 202-357-1882; FAX: 202-786-2563; e-mail: mnhbo001@si.edu Internet.

Botanic Garden Irkutsk State University

Victor Ya. Kuzevanov

The Botanic Garden of Irkutsk State University (BG-ISU), created in 1941, today occupies 27.08 hectares within the city of Irkutsk, 70 kilometers west of Lake Baikal. It is the only site of plant introduction in Eastern Siberia, and is categorized by law as a nature preserve within the city of Irkutsk.

The principle tasks of BG-ISU are plant introduction; the training of university students, school children, and the general population; and the improvement of ecological conditions. BG-ISU is working to save the genetically diverse flora of Eastern Siberia by adding to its collection of living plants and by studying their biology. With the existing collection, an assortment of plants better adapted to local and other climatic and ecological conditions, BG-ISU endeavors to increase the amount of green area in the city and to improve the environment. BG-ISU carries out educational activities related to nature preservation and botanical knowledge. BG-ISU is the only botanic garden in Central Siberia included in the International Nomenclature of Botanic Gardens, since 1953, and is a member of the Network of Botanic Gardens of Russia.

BG-ISU staff maintains and studies a living collection of 1,300 plant species and varieties from various regions of the world. BG-ISU is a center of training and practical study for students of the Biological and Soil, Geological, Geographical, and Chemical Faculties of Irkutsk State University at which staff members give lectures and carry out research. In the past five years, students at BG-ISU have completed one doctorate and six master's and eight bachelor's degrees. Courses and workshops are held regularly for student pharmacologists of the Irkutsk State Medical Institute, students of the Irkutsk State Pedagogical Institute, summer students of the Irkutsk Pharmacological College, and for school teachers. School groups also make frequent field trips to the Botanic Garden. In the past five years, staff members have published 14 articles and seven conference abstracts in Russian publications. Once

every two years, BG-ISU issues a seed list, "Delectus of the Irkutsk Botanic Garden," as part of its international seed exchange program.

Currently, BG-ISU is organized into four sections:

1. Dendrology. Occupies about eight hectares. Maintains and studies approximately 300 species of woody plants and bushes, including both local Siberian flora and flora of the former Soviet Union and world.
2. Wild Flora and Germplasm Preservation. Occupies about one hectare on which over 300 species are maintained. Consists of three collections: systematic, medicinal, and rare and endangered plants of Eastern Siberia.
3. Flowering and Ornamental Plants. Over 500 species are maintained in a field and two greenhouses (1,000 square meters and 200 square meters). Tropical and subtropical cultures are included.
4. Horticultural plants. Occupies about two hectares. Over 200 species and varieties of fruiting and other cultivated plants.

At the moment, BG-ISU is registered as a branch of the university, but it expects to become a partly independent entity within the next few years. The staff includes 29 members, including four Ph.Ds.: three administrative workers, 12 biologists, three senior and two junior lab workers, four gardeners, and four guards. The University provides only for BG-ISU operating expenses and staff salaries, averaging US\$40 per month. Financial support for BG-ISU restoration and beautification was discontinued over five years ago. The equipment of BG-ISU does not meet modern standards or current needs, as it lacks the following: 1) Machinery for soil treatment, 2) vehicles for transportation, 3) elementary equipment for botanical, physiological, and soil research, and 4) a sewage system. The physical infrastructure of BG-ISU is in poor condition. The perimeter fence remains broken in several spots because the university is not able to provide funds for its repair. Nearby residents trespass on the grounds of BG-ISU constantly, leading to frequent destruction and theft of valuable plants. The one guard per 24 hour period allowed by the university's budget cannot patrol 27 hectares adequately. Especially destructive are teenagers who build fires in the midst of a relic pine forest situated on the BG-ISU grounds. Four years ago, almost 1.5 hectares of the forest were designated for cutting by the administration of the city of Irkutsk to build a highway and homes. At least 0.25 hectares have been cut and the completion of one building has seriously damaged the biocenosis of the forest. Both a hot water pumping station and a power station for city trolley buses now run through BG-ISU. Lawns and natural fields were harmed by construction machinery. Building materials and trash litter the forest as a result of the construction. A temporary order of stay exists for the forested area not yet cut. Beginning in 1981, almost 60 percent of the valuable tropical and subtropical plants died every winter due to accidents resulting from a dangerously constructed heating system. This system has been repaired as one of the first acts of the new management of BG-ISU, financed independently from the university.

Unfortunately, the break-up of the Soviet Union has forced fundamental changes in the system supporting botanical, ecological, and biotechnological research. Shortages have come, and we have to look for any collaboration/support from international sources.

At present BG-ISU is looking for collaboration in:

- 1) GENE BANK PROJECT for rare and endemic Siberian plant conservation (seed banking, collections, etc),
- 2) construction of a COMPUTER DATA BASE (Paradox 3.5, scanning of color pictures and maps) of plant genetic resources in Siberia as a part of the Gene Bank Project,
- 3) botanical expeditions around Baikal Lake to save endangered plants,
- 4) clonal propagation (fruit trees, etc) and genetic transformation of plants,
- 5) seed exchange and/or seed production, and
- 6) publishing of attractive brochures and photo-cards on Siberian flowering plants.

Dr. Victor Ya. KUZEVANOV, Director, The Botanic Garden, Irkutsk State University, Koltsov Street, 93, P.O.Box 1457, Irkutsk, 664039, Russia; Phone: 7-(3952)-435836; Fax: 7-095- 4202106 (International) or 7-3952-332238 (Local); Telex: 231511 PTB SU
Attention IGU KUZEVANOV; Email: vic@bogard.irkutsk.su.

Nodulation and Nitrogen Fixation

Legume Nodulation Reports not in Allen and Allen (1981)

Taxon	Status ¹	Nodule ² Shape	Source ³
<i>Astragalus adsurgens</i> Pallas	+		1
<i>Chamaecrista nomame</i> (Sieb.) H. Ohashi	+		1
<i>Derris trifoliata</i> Lour.	+		1

¹Status: +, root nodules reported as present; -, root nodules reported as absent; ±, the nodulation report conflicts with Allen and Allen (1981).

²Nodule shape: Ae, aeschynomoid; As, astragaloid (now referred to as caesalpinoid by Corby); Cr, crotalaroid; CrB, branched crotalaroid; CrS, simple crotalaroid; De, desmodioid; Gl, globose; Lu, lupinoid; Mu, mucunoid.

³Source:

1. Oyaizu, H., S. Matsumoto, K. Minamisawa, and T. Gamou. 1993. Distribution of rhizobia in leguminous plants surveyed by phylogenetic identifications. *J. Gen. Appl. Microbiol.* 39: 339-354.

Gleanings

ABDULINA (new Reader) did a dissertation on "Species of the genus *Oxytropis* DC. of North Tian-Schan" in 1984. He is now investigating the Fabaceae of Kazakhstan, preparing a database and keys to genera and species and determining the distribution of taxa in Kazakhstan. He needs new publications on the Fabaceae, and offers in exchange herbarium specimens of Fabaceae from Kazakhstan.

ADAMS (new Reader) has interests in the legumes of Europe and tribe Hedysareae.

AGULLO, see BRIZUELA.

ALBUQUERQUE has begun working on leguminous weeds and can supply information on Amazonian legumes, chiefly weeds and medicinal plants.

BEREZUTSK (new Reader) is working on two projects: floristic revision of the legumes in the Saratov Region for ILDIS and the anthropotolerance of Fabaceae, including resistance to direct anthropogenic impact, tolerance to secondary habitats, and increasing anthropogenic trends in the region. He needs publications dealing with his areas of study, and he offers in exchange legume herbarium specimens from the Saratov Region of southeastern European Russia.

BEYRA-MATOS has the article "Distribución y ecología de las especies cubanas del genero *Crotalaria* (Leguminosae—Faboideae)" at the printer and two other manuscripts, "Arquitectura foliar de los taxa cubanos de la tribu Millettieae" and "Características epidérmico-foliares de los taxa cubanos de la tribu Millettieae," in the editorial process. She has completed her taxonomic study of tribe Millettieae and prepared a manuscript for the fascicle of the new *Flora de la República de Cuba*. From January to April of 1994, she carried out studies on the foliar architecture and leaf anatomy of the Cuban taxa of tribe Robinieae after which she prepared the manuscript of the Robineae for the new *Flora de la República de Cuba*. In May, 1994, she will begin her studies of tribe Desmodieae in Cuba.

BLAISE (new Reader) is studying tannin and cyanine production in the *Lotus corniculatus* group. He needs seeds of the *Lotus corniculatus* group (*L. borbasii*, *L. creticus*, *L. halophilus*, *L. japonicus*, *L. krylovii*, *L. peregrinus*, *L. stenodon*, and *L. strictus*) and other species, *L. angustissimus*, *L. conimbricensis*, *L. cytisoides*, *L. drepanocarpus*, *L. edulis*, *L. ornithopoides*, *L. parviflorus*, and *L.*

subbiflorus, and he offers in exchange seeds of *L. alpinus* from the French Alps and *L. corniculatus*, *L. tenuis*, and *L. uliginosus* from France.

BOCHKIN is preparing a treatment of Fabaceae for the project "Flora of Lower Volga" and working on adventitious and ruderal Fabaceae in the former USSR. He needs new publications on the Fabaceae and adventitious and ruderal plants, and offers in exchange herbarium specimens of Fabaceae (especially *Astragalus*) and other families from middle Asia, Siberia, the Russian Far East, Krymea, Caucasus, European Russia, and especially from the lower Volga.

BRIZUELA is working on the floral biology of *Vigna adenantha*, with Verónica Di Stilio, HOC, AGULLO, and PALACIOS, and on the taxonomy of *Prosopis*.

COLES (new Reader) is working on the systematics of the genus *Cicer*.

COMBES needs seeds of *Lathyrus sativus* or other *Lathyrus* spp. resistant to bruchids, and offers in exchange seeds of *L. cicera*, *L. heterophyllus* (many accessions), *L. latifolius*, *L. sativus*, and *L. sylvestris*.

CORBY has a paper in press on "Growth and decay of the rhizobial nodules of the Leguminosae."

COWAN begun preparation of the Mimosoideae, excluding *Acacia*, for the *Flora of Australia*. He received a one-year grant from the government of Australia in support of this work.

Di Stilio, Verónica, see BRIZUELA.

DREWES has a paper in press for *Candollea*, *Notulae ad Florum Paraquariense* entitled "Notas en Phaseolinae II: Nueva combinación en el género *Macroptilium*" with PALACIOS, and is finishing her revision of *Macroptilium* from Argentina.

DUBOVIK (new Reader) is studying the taxonomy and floristics of legumes from the Ukraine, especially the Crimea, and Caucasus. She needs recent publications on the systematics of *Astragalus*, *Caragana*, *Chamaecytisus*, *Coronilla*, *Genista*, etc. and herbarium specimens of *Genista* and other legumes from Bulgaria, Greece, and Turkey, and offers in exchange publications on and herbarium specimens of legumes from the Ukraine.

ESPINOSA-HERNANDEZ (new Reader) is working on interspecific competition and niche differentiation in relation to phosphorus and nitrogen in *Avena sativa* and *Lupinus arboreus*.

GAMA-LOPEZ has started working on the systematics of *Stylosanthes*, and needs all information referring to *Stylosanthes*.

GUNN has completed data collection for 269 genera of Faboideae for the third and final volume of his study on the fruits and seeds of the Fabaceae. He is now being assisted by Anna Weitzman who will collect data for tribes Millettieae, Phaseoleae, and Sophoreae. KIRKBRIDE will edit volume three and also prepare the introduction and keys for the volume. After publication of the third volume, the DELTA databases for all three volumes will be merged and published electronically. Following completion of the faboid volume, GUNN will be spending most of his time building two fruit-seed databases: one emphasizing his collections of tropical drift fruits and seeds, and the other on fruit and seed characters at the family level. After August 1994, his address will be 120 White Squirrel Lane, Brevard, North Carolina 28712 USA. Also see KIRKBRIDE.

HANELT and D. Mbewe of Lusaka, Zambia, are studying the protein types of *Phaseolus vulgaris* land-races from Georgia (Transcaucasus).

HOC, see BRIZUELA.

ISELY has completed a draft manuscript of US *Lupinus* and is working on treatments of all US genera, "a shade over 100," updating, editing, revising, correcting, and nomenclature.

James, Euan, is conducting research into nitrogen fixation and flooding tolerance in the genus *Neptunia*. He understands that there is a flood-tolerant species, *N. lutea*, in the southeastern US, and he needs seeds of the species. Biological Sciences, University of Dundee, Dundee, DD1 4HN, Scotland, Great Britain.

KAGALO (new Reader) is working on a floristic revision of the legumes of West Ukraine for ILDIS and on the database FABA for legume species of West Ukraine. She offers in exchange legume specimens from the Carpathian Mountains of West Ukraine.

KIRKBRIDE is working on a book chapter summarizing the taxonomic history and infrageneric-supraspecific classification of *Lotus* and the morphology of the cultivated species of *Lotus*, and is collaborating with WIERSEMA and GUNN on the description of a new African genus of tribe Swartzieae. Also see GUNN.

KRAMINA needs seeds and herbarium materials of species in the *Lotus corniculatus* group and offers the same from European Russia.

KRISHNAKUMARI (new Reader) is studying the effects of hormones on legumes, especially *Vigna mungo*.

KRUGER is now working on the evaluation, selection, breeding, and commercial development of *Cajanus cajan*, *Vigna unguiculata*, and *Voandzeia subterranea* and on the description and characterization of *Macroptilium atropurpureum* collections. He needs material of *Voandzeia subterranea*, and offers in exchange African grasses and introduced tropical and subtropical legumes.

KURLOVICH is developing Vavilov's theoretical ideas on classification, evolution, geography, and history of cultivated plants. He needs seeds of *Lupinus albus*, *L. angustifolius*, *L. luteus*, and *L. mutabilis* for breeding studies, and offers in exchange his new publications and seeds of *Lupinus*.

KUZEVANOV (new Reader) is director of the Botanic Garden of Irkutsk State University (BG-ISU); see his article in this issue of *The Bean Bag*.

LEE (new Reader) is studying the rhizobial cell and working on the arbuscular mycorrhizal fungi of legumes, especially wild Korean legumes.

Mbewe, D., see HANELT.

MENDONÇA is studying the phenology of arboreal legume species at the Biological Station of Caratinga, Minas Gerais, Brazil. He needs publications on tropical legume phenology, and offers herbarium specimens in exchange.

MILTON is investigating animals associated with *Acacia erioloba* in the southwest arid zone of Africa.

MOSJIDIS is now working on the quantitative genetics and isozymes of *Trifolium repens*, red clover.

PALACIOS, see BRIZUELA and DREWES.

PAVLOVA (new Reader) is working on a floristic treatment of Fabaceae in the Russian Far East for ILDIS.

PEDLEY is now doing the following: 1) revising *Desmodium* and related genera (*Aphyllodium*, *Dendrolobium*, *Phyllodium*, and *Tadehagi*) for Australia; 2) preparing a conspectus of *Chamaecrista* in Australia; and, 3) revising *Alysicarpus* in Australia.

PIZARRO (new Reader) is an agronomist who has worked in the Tropical Forage Program of the Centro Internacional de Agricultura Tropical (CIAT) since 1981. In 1989 a joint program was established between CIAT and EMBRAPA for research in the Brazilian Cerrado vegetation. His research is focused on the collection and preliminary evaluation of tropical grasses and legumes. The most important legume genera are: *Arachis*, *Calopogonium*, *Centrosema*, and *Stylosanthes*.

PODOLNAYA (new Reader) is studying the anatomy and morphology of pods and seeds of selected species of *Medicago* and *Trigonella*. She offers in exchange seeds of *Medicago* and *Trigonella* from Caucasus and Crimea.

POTOKINA is working on the reproductive biology of *Vicia*. She needs seeds of perennial species of *Vicia*, excluding *V. cracca*, and seeds and herbarium specimens of *Astragalus* from both the New and Old Worlds. She offers in exchange seeds of *Phaseolus* and *Vigna* from Uzbekistan, local varieties, and seeds of *Astragalus* from Central Asia.

PUNITHAVATHY (new Reader) is studying the effects of herbicides on legumes.

RAMIREZ-AVILES (new Reader) is studying the management and effects of environmental conditions on flowering, seed set, and seed maturation in *Aeschynomene*, *Arachis*, *Centrosema*, and *Leucaena*. He needs seeds of *Arachis* spp., and offers information on the agronomy of *Canavalia ensiformis* seed production.

REPJEV (new Reader) is working on the germplasm of *Vicia*. He needs *Vicia* seeds for breeding, and offers in exchange legume publications and seeds of *Vicia*.

REYNOSO is studying the taxonomy and palynology of *Calliandra* in Jalisco, Mexico, and preparing a preliminary check list of the legumes of Jalisco. He needs publications and type photographs, and offers in exchange herbarium specimens, seeds, and fruits.

RICO-ARCE needs herbarium specimens of Neotropical *Acacia* and Ingeae (except *Inga*), dry leaflets for DNA analysis, and wood samples of *Acacia*, and offers herbarium specimens of Mexican Leguminosae in exchange.

RODRIGUEZ-CARRASQUERO is now working on the legumes of the Venezuelan Andes, especially the trees. He offers in exchange legume specimens of Venezuela.

ROSKOV and SYTIN in collaboration with YAKOVLEV are continuing their work on the database "North Eurasian Legumes," legumes of the former USSR (FSU) and Mongolia. The database now includes 2,246 species and infraspecific taxa forming a complete checklist for the area. More than 40 legume specialists from Russia, the Ukraine, Belorussia, Estonia, Latvia, and Turkmenistan are assisting in regional floristic reviews of the database. Distributions of species and infraspecific taxa in the database will be derived from the literature, the largest herbaria of the FSU, and little-known collections of many universities, pedagogical institutes, and nature reserves.

Ruijun, Li, is interested in the genomic differentiation and speciation of *Vicia*, and needs seeds of *Vicia americana* and other species of South American *Vicia* species. Department of Biology, Harbin Normal University, Harbin 150080, P.R. of China

SAGALAEV (new Reader) is treating the genus *Astragalus* for the "Flora of Lower Volga."

SANDERSON (new Reader) is working on the molecular phylogenetics of *Astragalus* and Galegeae.

SCHMIDT (new Reader) needs information about amphicarpic legumes or other plants which have similar mechanisms, and offers information on the amphicarpic legume *Centrosema rotundifolium*.

SEFEROVA has started working on the spermoderm anatomy of *Cicer* seeds and the systematics of the genus *Cicer*. She needs seeds of wild *Cicer* species, and offers in exchange seeds of *Cicer acantophyllum* Pamir.

SOKOLOFF needs seeds and herbarium material of *Anthyllis* and related genera and new publications on *Anthyllis* and Loteae taxonomy. He offers in exchange seeds and herbarium specimens of *Anthyllis* from Russia and herbarium specimens of vascular plants from the Murmansk Region and Kurelia, Russia.

SYTIN, see ROSKOV.

SZABO is now working on: 1) electronic database for germplasm, including legumes; 2) DINIFIX—electronic database of dinitrogen fixation bibliography which is available from the network of the Hungarian Academy of Sciences; and, 3) intraspecific variability in *Trifolium pannonicum*. He needs material of *Trifolium* sect. *Stenostemum* (*T. caucasicum*, *T. pannonicum*, etc.), and offers different morphotypes of *T. pannonicum*.

ULLE is doing a floristic revision of the legumes in SKO herbarium (Institute of Biology, Syktyvkar) for ILDIS, see ROSKOV. He needs publications on the genus *Lotus*, and offers in exchange new herbarium specimens of legumes from Komi and Arkhangelsk Region (northeastern European Russia).

VEASEY (new Reader) is a research agronomist at the Instituto de Zootecnia in Nova Odessa, São Paulo, Brazil, and works principally with genetics and forage plant breeding. Recently more emphasis has been placed on the evaluation of nitrogen fixing trees and shrubs at her institute. Consequently she is now starting a Ph.D. dissertation on the genetic variability of *Sesbania*.

Vincent, Michael A., has focused his research on the taxonomy of New World clovers (*Trifolium*, Leguminosae). He is working on: 1) distributions and status of the seven eastern United States native *Trifolium* (*T. bejariense*, *T. calcaricum*, *T. carolinianum*, *T. polymorphum* (*T. amphianthum*), *T. reflexum*, *T. stoloniferum*, and *T. virginicum*); 2) a monograph of *Trifolium* sect. *Involucrarium*; 3) species complex of *Trifolium*, called by him *T. amabile* complex, which extends from southwestern US through Central America into South America; and, 4) treatments of *Trifolium* in Mexico and for the Flora of Chile. He needs specimens of the genus *Trifolium*, especially from the New World, and seeds of any *Trifolium* species for his seed bank and for DNA analyses and for allozyme and morphological studies. He will exchange specimens for new collections or receive specimens as gifts for determinations. Herbarium MU, Department of Botany, Miami University, Oxford, Ohio 45046 USA; telephone: 513-529-2755; FAX: 513-529-4243; e-mail: vincentm@mu-support.acs.muohio.edu Internet.

Weitzman, Anna, see GUNN.

WEDER is working on the primary structure of a trypsin-chymotrypsin inhibitor from *Lens culinaris*.

WIERSEMA, see KIRKBRIDE.

WONG-LEON is now investigating the morphometry of *Phaseolus*.

YAKOVLEV, see ROSKOV.

ZALLOCCI is working on the chemotaxonomy of *Prosopidastrum* and *Prosopis* and the chemical analysis of pollen and nectar in Phaseoleae subtribe Phaseolinae and *Prosopis*.

ZYMNITSKAYA (new Reader) is working on the comparative embryology of *Trifolium*. She needs information and publications on the morphology and anatomy of seeds, fruits, and flowers and on chromosome numbers of legumes, especially *Trifolium*, and offers information and publications on the reproductive biology of *T. pannonicum*, *T. pratense*, and *T. trichocephalum*.

RECENT LEGUME LITERATURE

Eds. Note: Author names in all capital letters are BB Readers. Their full names and addresses are listed in November 1992 BB Directory and supplements. Correspondence about their articles should be sent directly to them.

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New Readers and Changes for the November 1992 Directory

The complete *Bean Bag Directory* now appears on a three-year schedule. The last full *Directory* appeared in November 1992, and the next complete *Directory* will be published in November 1995. Use this supplement in conjunction with the November 1992 *Directory*.

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