



# American Arachnology

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B. Vogel, Editor  
940 Poly Drive  
Billings, MT 59102

AMERICAN ARACHNOLOGY # 14

The inevitable has happened: membership fees have risen for everyone. Also, American Arachnology will no longer be sent free to non-members of AAS in the United States; a \$2 subscription fee is requested. For more information, see the report of the 1975 AAS business meeting on page 4.

Back issues of AA are still available for \$4.00 for numbers 1-10, 50¢ each for numbers 11, 12, 13, or other single issues. Orders should be sent to Nan Lawler, 1753 Grand Avenue, Santa Barbara, California 93103.

Contributions to American Arachnology--as well as announcements, exchanges, requests, etc.--should be sent to the Editor, B. Vogel, 940 Poly Drive, Billings MT 59102.

IN THIS ISSUE--Directory of Arachnologists. All AAS members who have paid their 1975 dues (according to information on hand as we go to press) are marked with \*. If you believe there is some mistake, please write to the Secretary, Nan Lawler (address above). Likewise, if your address is not correct, please let her know--we have had tremendous problems with publications being returned or apparently disappearing from the earth. Correct addresses may help.

Speaking of addresses, you may have noticed the change in return address on publications. This is because the Secretary is no longer associated with the Santa Barbara Museum of Natural History.

## *Future Meetings*

1976. There will be 2 regional meetings in North America.

Western Region in Albuquerque, New Mexico, June 17, 18; Dan Jennings, host.

Eastern Region in Carbondale, Illinois, July or August (date not yet announced); Joe Beatty, host.

Jennings and Beatty will be sending out announcements and application forms to members in their regions in the near future. If you feel you have been overlooked, write Jennings or Beatty. The meetings are open to all who wish to attend.

1977. The 7th International Arachnological Congress is scheduled to be held at Exeter University (England) from 27 July to 4 August. The first circular will be mailed in February 1976. Inquiries should be addressed to Dr. A. F. Millidge, President of the Organizing Committee.

1978. The 2nd National/International AAS meeting will be held. Gainesville, Florida, and Ottawa, Canada, have both been offered as meeting places.

# The Ecological Buffer System

OR

## WHAT THEY ARE GOOD FOR

Some time ago I wrote a somewhat pessimistic piece "what are they good for?" expressing the central cultural discomfort with our ubiquitous friends. Perhaps pessimism is justified if, as in my case, it caused me to brood on the question and arrive at what I am presumptive enough to say is an answer.

In my mental ramblings I take the unsystematic liberty of thinking of "bugs" collectively, that is, terrestrial arthropods--insects, arachnids and other miscellaneous creepies as all being the same sort of creature, doing generally the same sort of thing. They are all an order of magnitude smaller than vertebrate animals, have short life cycles, bloomed during the Carboniferous, but still enjoy evolutionary expansion. In fact, one of the most conspicuous things is that there are so many bugs, and that they are everywhere.

If you reject the premise that they are here to annoy us (which I do as absurd and trivial) then it does become a more profound question. Why do you need 100 species of North American Pardosa; why do you need 110 species of Theridion; why would you need 2000 species of Cicindella? More maddening is why do you find so many of them together? Why do you so often find groups of closely related species living together with very little temporal or spatial separation and only the finest of variation in parameters of their niche? This pattern of insect/arachnid occurrence makes little sense in terms of competition between species, but perhaps it does if one considers the community evolving as a unit, with the survival of the community taking precedence over the survival of single species.

Drawing a parallel from physiology, I suggest that the ecological function of insects/arachnids is to act as a buffer system to resist radical short-term changes in a community or ecosystem. In each community is a complex, interrelated web of arthropod organisms, capable of reproducing rapidly, capable of producing a vast number of individuals.

Insects are important if not necessary in the reproduction of the major plant species of a community. While many of the trees and bushes, the biological "skeleton" of a community, are capable of vegetative reproduction, they depend heavily on sexual reproduction, assisted by pollinators, as an alternate survival strategy. A notable exception to this is of course grasslands.

Dead animals and plants are largely recycled because of arthropod action. Insects are important grazers, and arthropod pests and parasites may even serve as major regulators of mammal populations in certain communities. For example, it may be that biting flies protect wetlands from overgrazing by hooved mammals.

A buffer system must not only act homeostatically on the entire system, but maintain its own balance. The arthropod sub-unit of a community may be largely self-regulatory, with the major predators of arthropods being arthropods. I do not deny large predation upon arthropods by small vertebrates. I don't think this invalidates my idea, but the buffer system may have to be extended to include these small vertebrates as well.

I have neither the space, nor indeed, the data to offer this idea as a scientific hypothesis at this time. Some data does exist. Mattson and Addy<sup>1</sup>

<sup>1</sup> W. J. Mattson & N. D. Addy, 1975. Science, 190(4214):515-522.

## THE ECOLOGICAL BUFFER SYSTEM (2)

consider insect grazers as important regulators of primary forest production, and further that grazing improves production.

It might be fruitful to view agricultural pests as part of a buffer system. If my idea is true, then attempting to control crop pests is fighting a buffer system which is attempting to restore diversity to the plant part of the community. Maybe biological control of crop pests will become understanding something about the buffer system, and utilizing it, instead of trying to eradicate it.

So--what good are they? Well, I think they are absolutely essential in maintaining the stability and diversity of biological communities. They are the homeostatic mechanism of an ecosystem. That's what they are good for.

--Beatrice R. Vogel

## 1975 Warrensburg Meeting

AMERICAN ARACHNOLOGICAL SOCIETY MEETING, 1975, WARRENSBURG, MISSOURI

The First National/International meeting of the American Arachnological Society was, hands down, the best scientific meeting I have ever been to. I would even include the (for me) extremely eventful AAAS meeting in Denver around 1960, when I met Harriet Exline Frizzell. At that time I knew of not more than a half-dozen arachnologists on the continent, and meeting another person of the same passion was indeed an event. Was it then not an event to the nth power to see in the short span of 15 years a gathering of 70 North American Arachnologists?

Yes, indeed, and a great deal of the credit of a successful meeting can be given to the organizer, Bill Peck. Central Missouri State University has nearly ideal facilities for such a meeting. We were housed in the same building as the meetings, with the cafeteria only a block away. Most of us were spared the hassle of transportation. The meetings were well-organized, and happily all single sessions, with none of the horror of choosing which session to attend which is nearly an intrinsic feature of scientific meetings. But credit must also be given the participants of the meetings--the papers were generally of high quality, whether a progress report, or the final results of arachnological research. It was gratifying to learn that the Society has blossomed into a well-rounded scientific fellowship, not dominated by systematics, ethology, physiology, ecology, morphology, etc., but each discipline well represented by students with a common interest--arachnids.

The Warrensburg meeting was well-organized, well-attended and was also very social. Contrary to popular misconception, Central Missouri is not entirely arid. The environment for basic scientific exchange was created the evening before the meeting formally opened in Bill Peck's yard with liberal amounts of popular beverages. The second afternoon of the 3-day meeting was a field trip to an interesting historical site on the Missouri River, which was also arachnologically interesting. The outing was followed by an "informal" dinner

## 1975 WARRENSBURG MEETING (2)

of barbequed whole pig at Warrensburg's most exotic establishment, complete with open air dining, bar and swimming pool.

The three days were full of arachnology and arachnological exchanges. Old friendships renewed, and new friendships established--important to arachnology the science, because science is a human endeavor and only flourishes if its underlying humanity does.

## AMERICAN ARACHNOLOGICAL SOCIETY--Business meeting, 26 June 1975, Warrensburg

Results of the 1975 elections: President--Bill Peck  
Vice President--Charles Dondale  
Secretary--Nan Lawler  
Treasurer--Mel Thompson  
Directors--Herbert Levi  
                  Willis Gertsch  
                  Bea Vogel

AAS dues.--This is the year of the inevitable increase. You have probably received your 1976 dues notices and have noticed that all dues have increased. For 1976 AAS dues will be:

Regular--\$12.50  
Student--\$7.50  
Institutional--\$15.00

(Notice also that CIDA dues are \$10.00, and BAS is now \$12.00.)

We still retain Associate memberships. Associate members should write the Secretary to inform her of their status and to up-date our records.

American Arachnology will no longer be free to non-members in the U.S. To cover the increased costs of everything--paper, envelopes, mailing, address changes--the newsletter will charge \$2/year to subscribers in the U.S. who are not members of the American Arachnological Society. If you are in the U.S., not an AAS member, and wish to continue to receive AA, please send your subscription to the Secretary.

## C.I.D.A.

Centre International de Documentation Arachnologique

Unfortunately there has been some confusion about 1975 (past) dues, which should be straightened out by now. A separate mailing from Levi and Dondale, correspondents for North America, requested the difference between dues paid by many members, and the \$10 (US) charged by C.I.D.A. The List of Arachnological Works was mailed only to those who paid their dues. If you have paid your full dues and not received your list, please write Prof. Max Vachon, C.I.D.A., 61, Rue de Buffon, Paris Veme, France. We trust this confusion will not be repeated.

The next edition of the Directory of Arachnologists of the World is planned to be published for the 1977 Congress. Individual questionnaires will be sent in February 1976 and must be returned before December 31, 1976.

## Announcements &

WANTED--References or unpublished observations of Gelis parasites of wolf spiders.

Gail Doell has collected several specimens of an ichneumon Gelis which is a parasite in the egg cases of the wold spider Pardosa tristis. Mr. James Hansen of the Entomology Department at Washington State University believes the parasite has never been described and they have begun a literature search to verify this. Any information and assistance would be most welcome. Gail Doell, Department of Biology, Texas Christian University, Fort Worth, Texas 76129.

The Proceedings of the 6th International Congress (Amsterdam) are now in print and available from Dr. W. Junk B. V., Publishers, 13, Van Stolkweg, THE HAGUE, Holland.

CORRECTION--In "Arachnology at the AMNH" (AA #13) Norm Platnick wrote that Anapistula was probably the only 4-eyed U.S. spider. He wishes to ammend this and include the 4-eyed Mexican uloborid Miaagrammopes which barely gets to southern Texas.

ADDITIONS & CORRECTIONS to the non-publication "Catalog of New Spider Genera 1940-1970"--

In the Bibliography, "Caravallo" should be spelled Carcavallo.

### AGELENIDAE

Maimuna Lehtinen 1967, Textrix (not Textris). vestita

### FAMILIES NOT SUPPLIED

(Questions should be addressed to Bertha S. Gerschman de Pikelin and Rita D. Schiapelli, Museo Argentino de Ciencias Naturales "Bernardino Rivadavia," Avda. Angel Gallardo 470, Casilla de Correo 10, Suc. 5, Buenos Aires, Argentina.)

Chubutia Mello-Leitao 1940=Tryssothelae Simon 1902

Chubutia notata Mello-Leitao=Tryssothelae patagonica Simon 1905

, Gerschman de Pikelin & Schiapelli 1970 Bull. Mus. Nat. Hist. Nat.  
2 ser. tomo. 41 Suppl. No. 1, 1969 (1970):152

Parachubutia Mello-Leitao 1940=Lycinus Thorell 1894

Parachubutia gajardoi Mello-Leitao 1940=Lycinus gajardoi (Mello-Leitao  
1940) nov. comb.

Schiapelli & Gerschman de Pikelin 1965. Segundas Jornadas Entomoepi-  
demiologicas Argentinas, Salta 1965, V. 1:57

Juambeltzia Mello-Leitao 1946=Idiops Perty 1833

Juambeltzia clara Mello-Leitao 1946=Idiops clarus (Mello-Leitao 1946)  
nov. comb.

Schiapelli & Gerschman de Pikelin 1971, Rev. Soc. Ent. Argentina, v.  
33 (1-4):57.

Levina Zapfe 1963=Lycinus Thorell 1894

Levina épipiptusa Zapfe 1963=Lycinus gajardoi (Mello-Leitao 1940)  
Schiapelli & Gerschman de Pikelin, 1973. Physis C v.32 n.85:289

HERE IT IS, at long last (and probably out-of-date already!):  
the Directory of Arachnologists

People and institutions marked \* are 1975 members of A.A.S., according to the information the Secretary has on hand as we go to press. If you think there has been a mistake, please write to the Secretary.

Institutions are listed alphabetically by city (for the most part).

Mailing (especially keeping up with changes of address) continues to be a problem. We ask your help:

1. Please notify the Secretary (Nan Lawler, 1753 Grand Avenue, Santa Barbara, California 93103) of any change of address.
2. All 1975 members should have received the Journal of Arachnology 3(1) by now. If you have not received it, please notify the Secretary.

Of particular concern to members within the U. S. (since we guarantee return postage, and undelivered publications come back--usually) are some facts:

- a. If someone writes on the envelope, "Please forward to..." it is rarely forwarded. It is usually returned (and AAS pays the postage).
- b. From whatever is written on the envelope, it is impossible to distinguish a permanent change of address from a temporary one. Since the mail is so slow, a temporary change of address is usually out-of-date by the time it reaches the Secretary, thus when the publication is sent again to the new address, it is returned again.
- c. It has become apparent that institutions (schools) are not necessarily eager to receive or hold mail for their students. A number of times we have sent publications to members at institutional addresses, only to have them returned marked "unknown." This seems to be a particular problem during vacations, and there is no way to time mail to arrive during school terms. Not only do vacation times vary, but also it is impossible to predict delivery date.

So... if you have not been receiving all the publications you should, you might consider getting a truly permanent address--relatives, friends, anyone who is willing to receive and hold your mail for you.

Returned publications will be resent only at the request of the member.

# DIRECTORY OF ARACHNOLOGISTS

- ABALOS, J. W.  
 Facultad de Ciencias Exactas  
 Fisicas y Naturales  
 Dept. de Zoologia  
 Velez Sarsfield 299  
 Cordoba, ARGENTINA
- ABRAMS, Barbara  
 415 West Johnson St., Apt. 230  
 Madison, Wisc. 53703
- AGUILAR, Pedro G.  
 Univ. Nacional Agraria  
 Apartado 456  
 La Molina, Lima, PERU
- AITCHISON, Cassie \*  
 Dept. of Zoology  
 Univ. of Manitoba  
 Winnipeg, Manitoba  
 R3T-2N2 CANADA
- ALBERTI, Dr. Giorgio  
 Museo Civico De Storia Natur.  
 Piazza A. Mortis 4  
 34123 Trieste ITALY
- ALLEN, Terry M. \*  
 5209 N. Fresno St. #103  
 Fresno, CA 93710
- ALLISON, Rodney \*  
 20, Arnolds Close  
 Barton-On-Sea  
 Hants BH 25 7 JW  
 ENGLAND
- ALLRED, Dorald M. \*  
 Prof. of Zoology  
 301 WIDB-BYU  
 Provo, Utah 84602
- ALTERI, Charlott H. \*  
 Butler Street  
 Wolcott, NY 14590
- ANDERSON, John F. \*  
 Dept. of Zoology  
 Univ. of Florida  
 Gainesville, Fla. 32601
- ARPAL, M. Martinez  
 Rambla Cataluna, 60  
 Barcelona (7) SPAIN
- ASPEY, Dr. Wayne \*  
 The Marine Biomed. Institute  
 Univ. of Texas Medical Branch  
 Galveston, TX 77550
- AYERY, Richard F. \*  
 1437 W. Prince Road  
 Tucson, Ariz. 85705
- AZEVEDO, William E.  
 Dept. of Entomology  
 University of Arizona  
 Tucson, Ariz. 85721
- BAILEY, Hector  
 Univ. of Montreal  
 2490 E. Sherbrooke St., Apt. 6  
 Montreal, 134, Quebec  
 CANADA
- BAKEWELL, William C.  
 10824 Lindbrook Dr.  
 Los Angeles, CA 90024
- BARE, Rex O.  
 606 W. 29th Place  
 Lawrence, Kansas 66044
- BARRERA, Alfredo  
 Museo de Historia Natural  
 Nuevo Bosque de Chapultepec  
 Apt. Postal 18-845  
 Mexico, D. F. MEXICO

BASS, James T., Jr. \*  
 Georgia Southwestern College  
 507 Barlow Street  
 Americus, GA 31709

BAUAB VIANNA, Maria Jose  
 Fac. de Cienc. Med. e Biol.  
 de Botucatu  
 Caixa Postal 103, Rubiao Junior  
 S. Paulo 1860 BRAZIL

BEATTY, Joseph A. \*  
 Dept. of Zoology  
 Southern Illinois Univ.  
 Carbondale, Ill. 62901

BEER, Robert E. \*  
 Dept. of Entomology  
 Univ. of Kansas  
 Lawrence, Kansas 66044

BENEDICT, Ellen M. \*  
 Dept. of Biology  
 Portland State Univ.  
 P.O. Box 751  
 Portland, Oregon 97207

BENNER, Bill  
 1442 Durham Rd.  
 Penndel, Penna 19047

BENTON, Cole L.B.,Jr. \*  
 1305 N. Hoyle Ave.  
 Bay Minette, Alabama 36507

BENTZIEN, Michael M. \*  
 Div. of Entomology  
 Univ. of California  
 Berkeley, CA 94720

BERRY, James W.  
 Butler University  
 Indianapolis, Ind. 46208.

de BIASI, Persio  
 Instituto Butantan  
 Seccao do Arthropods Peconhentos  
 Caixa Postal 65  
 Sao Paulo SP BRAZIL

BIFFIN, Edward H. \*  
 8 Orchard Row, Church Road  
 Grafham, Huntingdon  
 PE 18 OBD ENGLAND

BILLODEAUX, John S.  
 204 Davies Ave.  
 Jennings, Louisiana 70546

BIXLER, David E. \*  
 Chaffey College  
 Alta Loma, CA 91701

BOGGILD, Ole \*  
 Uddyhojvej 186  
 DK-8900 Randers, DENMARK

BOLON, Carl B. \*  
 212 N.W. 25th St.  
 Corvallis, Oregon 97330

BOWLING, Thomas A. \*  
 Tekonsha High School  
 Tekonsha, Mich. 49092

BRADY, Allen R. \*  
 Hope College  
 Holland, Mich. 49423

BRAGG, Philip D. \*  
 4610 West 6th Avenue  
 Vancouver 8, B. C., CANADA

BREEDLOW, Cynthia H. \*  
 Dept. of Biol. UMC, 53  
 Utah State Univ.  
 Logan, Utah 84321

BRIGGS, Thomas S. \*  
 845 Corbett Ave.  
 San Francisco, CA 94131

BRIGNOLI, Paolo M. \*  
 Instituto di Zool. dell'Univ.  
 Viale Dell'Universita, 32  
 00100 Roma, ITALY

BROOKHART, Jack \*  
 7393 South Tamarac  
 Englewood, Colo. 80110

CANTRELL, Carol J. \*  
 200 Lower Creek Road  
 R.D. No. 7, Apt. 65  
 Ithaca, NY 14850

BROWN, Kathy \*  
 3328 Dothan  
 Dallas, TX 75229

CAPOCASALE, Roberto \*  
 Inst. de Invest. Cienc. Biol.  
 (Lab. de Zool. Experimental)  
 Ave. Italia 3318  
 Montevideo, URUGUAY

BROWN, Wynne \*  
 Biological Science West  
 University of Arizona  
 Tucson, Ariz. 85721

CARICO, James E. \*  
 Lynchburg College  
 Dept. of Biology  
 Lynchburg, VA 24504

BUCHERL, Wolfgang  
 rua Sagarana 152  
 Vila Madalena  
 05444 SAO PAULO SP BRAZIL

CARLTON, Richard S.  
 Ira G. Darling Center  
 Univ. of Maine  
 Walpole, Maine 04573

BUCKLE, Donald J. \*  
 2010 Lorne Ave.  
 Saskatoon, Saskatchewan  
 CANADA  
 BURGESS, J. Wesley  
 N.C. Dept. of Mental Health  
 Div. of Research, Box 7532  
 Raleigh, NC 27611

CARLYSLE, Carol  
 Dept. of Entomology  
 Univ. of Florida  
 Gainesville, Fla. 32601

CARPENTER, Ronald \*  
 57 Footscray Road  
 Elstree, London  
 SE 9, ENGLAND

BUSKIRK, Ruth E. \*  
 Neurobiology & Behavior  
 Langmuir Laboratory  
 Cornell Univ.  
 Ithaca, NY 14850

CARPENTER, Rose M. \*  
 4507 McNeil Street  
 Wichita Falls, TX 76308

BUTCHER, Mary  
 University College  
 Oxford, ENGLAND

CARREL, James E. \*  
 Div. of Biological Science,  
 Univ. of Missouri-Columbia  
 Columbia, MO 65201

CADY, Craig  
 508 Somerset Dr.  
 Green Bay, Wisc. 54301

CARROLL, Devin P. \*  
 818 Blaine St.  
 Riverside, CA 92507

CALDWELL, Robert T. \*  
 P. O. Box 409  
 Iowa City, Iowa 52240

CARTER, Richard T. \*  
 Dept. of Anthropology  
 Univ. of Manitoba  
 Winnipeg, Manitoba CANADA

CAMERON, H. D. \*  
 2048 Charlton  
 Ann Arbor, Mich. 49103

CASEY, Ernest R. \*  
 1005 S. W. 2nd Avenue  
 Gainesville, Fla. 32601

CASSIN, Vernon A., Jr. \*  
 Harvard Law School  
 Cambridge, Mass. 02138

CRAIG, John L. \*  
 34 Williams  
 Fort Leonard Wood, MO 65473

CHIRI, Angel  
 711 Orange Grove, Apt. B.  
 Glendale, CA 91205

CRAIG, Patrick R. \*  
 1911 Haste  
 Berkeley, CA 94704

CHOC, George A.  
 Rt. 6 Box 89  
 Duluth, Minn. 55804

CRANDALL, Robert H. \*  
 1992 N. Mar Vista  
 Altadena, CA 91001

CILEK, Jim \*  
 Box 773  
 Flager Beach, Fla. 32036

CRAWFORD, Clifford S. \*  
 Dept. of Biology  
 Univ. of New Mexico  
 Albuquerque, New Mexico 87106

CLOUDSLEY-THOMPSON, John \*  
 Dept. of Zoology  
 Birkebeck College Malet Street  
 London, WC1E 7HX ENGLAND

CRAWFORD, F. T.  
 Dept. of Psychology  
 Florida State Univ.  
 Tallahassee, Fla. 32306

CODDINGTON, Jonathan  
 9 Partner's Lane  
 Millbrook, NY 12545

CRAWFORD, Rod \*  
 Thomas Burke Memorial  
 Washington State Museum  
 Univ. of Washington  
 Seattle, Wash. 98105

COLLINS, Daniel R. \*  
 P. O. Box 165  
 Hiram, Ohio 44234

CROCKER, John \*  
 34 Bramcote Rd.  
 Loughborough, Leicestershire  
 LE11 2SA ENGLAND

COOKE, John A. L. \*  
 Oxford Scientific Films, Ltd.  
 Long Hanborough  
 Oxford, OX7 2LD ENGLAND

CUTLER, Bruce \*  
 1747 Eustis Street  
 St. Paul, Minn. 55113

da COSTA, Dra. Ana Timoteo  
 Arachnidos  
 Museo Nacional Quinta da Boa V.  
 Z.C. - 08 Rio de Janeiro  
 BRAZIL

DEVOE, Robert D.  
 Dept. of Physiology  
 Johns Hopkins Medical School  
 Baltimore, MD 21205

COYLE, Frederick A. \*  
 Dept. of Biology  
 Western Carolina Univ.  
 Cullowhee, NC 28723

DINGERKUS, Guido  
 Cornell Univ., Dept. Biol. Sci.  
 Langmuir Laboratory  
 Ithaca, NY 14850

CRAGIN, Murray \*  
 1939 A Sandstone  
 Kirtland AFB West  
 New Mexico 87118

DOELL, Gail \*  
 Dept. of Biology  
 Texas Christian Univ.  
 Ft. Worth, TX 76129

DONDALE, C. D. \*  
 Entomology Research Institute  
 Canada Agriculture  
 Ottawa, Ontario K1A 0C6  
 CANADA

DORRIS, Peggy Rae  
 Henderson State College  
 125 Evonshire Drive  
 Arkadelphia, Ark. 71923

DOUGLAS, Michael Edward  
 Savannah River Ecology Lab.  
 Drawer E  
 Aiken, SC 29801

DREW, Leslie C.  
 Museum of the Rockies  
 Montana State Univ.  
 Bozeman, Mont. 59715

DREW, William A. \*  
 Entomology Dept.  
 Oklahoma State Univ.  
 Stillwater, OK 74074

DREWS, David  
 120 S. 5th St.  
 Warren, Minn. 56762

DRUMMOND, R. O.  
 Entomology Research Div.  
 U.S.D.A. P.O. Box 232  
 Kerrville, TX 78028

DUMITRESCU, Dan, \*  
 Musee d'Histoire Naturelle  
 "Gr. Antipa"  
 1, Chausee Kisseleff  
 Bucarest, ROUMANIA

DURBIN, David \*  
 4137 19th Street  
 San Francisco, CA 94114

EASON, R. Robinson \*  
 Cricket-Dade Enterprise  
 6 Highland Estates  
 Columbia, MO 65201

EBERHARD, William \*  
 Departamento de Biología  
 Universidad del Valle  
 Cali, COLOMBIA

EDGAR, Arlan L. \*  
 Alma College  
 Alma, Michigan 48801

EDWARDS, Glavis B., Jr. \*  
 Dept. of Entomology  
 University of Florida  
 Gainesville, Fla. 32611

von EICKSTEDT, Vera R. D.  
 Instituto Butantan  
 Caixa Postal 65  
 Sao Paulo SP BRAZIL

ELLIOTT, William R. \*  
 Dept. of Biology  
 Texas Tech University  
 Lubbock, TX 79409

ENDERS, Frank \*  
 Drawer DG (USDA-ARS)  
 College Station, TX 77840

ENNICK, Franklin \*  
 7760 Stockton Avenue  
 El Cerrito, CA 94530

ENNS, Wilbur R. \*  
 Univ. of Missouri-Columbia  
 1-87 Agriculture Boulevard  
 Columbia, MO 65201

ERWIN, Robert L.  
 Museum of Zoology  
 Louisiana State Univ.  
 Baton Rouge, LA 70803

EXNER, Frank K. \*  
 P. O. Box 298  
 Weston, OH 43569

FALCH, John A.  
3612 Garfield Ave. So.  
Minneapolis, MN 55409

FARR, James A. \*  
Dept. of Biol. Science  
Florida State Univ.  
Tallahassee, Fla. 32306

FIRSTMAN, Bruce L. \*  
Cal Poly State Univ., Pomona  
3801 W. Temple Ave.  
Pomona, CA 91768

FLOWERS, R. Willis  
Dept. of Entomology  
Univ. of Wisc.  
1630 Linden Drive  
Madison, Wisc. 53706

FLCYD TOREN, Linda \*  
1620 Notre Dame Avenue  
Belmont, CA 94002

FOIL, Lane \*  
Drawer EM, Dept. Ent.  
Miss. State University  
Mississippi 39762

FORSTER, Raymond R. \*  
Otago Museum  
King Street  
Dunedin, NEW ZEALAND

FOWLER, D.  
Dept. of Biology  
Western Michigan Univ.  
Kalamazoo, Mich. 49001

FOX, Irving \*  
School of Medicine--GPO Box 5067  
Dept. of Medical Zoology  
San Juan, Puerto Rico 00936

FOX, William K. \*  
Ventura College  
4667 Telegraph Rd.  
Ventura, CA 93003

FRANCKE, Oscar F. \*  
Dept. of Zoology  
Arizona State University  
Tempe, Ariz. 85281

FREIRE-MAIA, Lineu  
Dpto. de Fisiologia  
Facultade de Medicina do Univ.  
Federal de Minas Gerais  
Belo Horizonte, BRAZIL

FRIEDRICH, Victor  
Dept. of Neuropathology  
Harvard Medical School  
25 Shattuck  
Boston, Mass. 02115

FRINGS, Hubert \*  
Univ. of Oklahoma  
Dept. of Zoology  
730 Van Vleet Oval  
Norman, OK 73069

FROMMER, Saul  
Curator, UCR Insect Coll.  
Univ. of California  
Riverside, CA 92502

FRONK, Don W. \*  
Colorado State Univ.  
Dept. Zoology--Entomology  
Ft. Collins, Colo. 80521

FUNK, Richard C. \*  
Dept. of Zoology  
Eastern Illinois Univ.  
Charleston, Ill. 61920

GABBUTT, Peter D. \*  
Dept. of Zoology  
The University  
Manchester, M13 9PL ENGLAND

GABEL, J. R. \*  
440 Monticello Street  
San Francisco, CA 94127

GALIANO, Maria Elena \*  
Museo Argentino de Cienc. Nat.  
"Bernardino Rivadavia"  
Avenue Angel Gallardo 470  
Buenos Aires, ARGENTINA

GERSCHMAN de PIKELIN, B.S.  
Museo Argentina de Cien. Nat.  
"Bernardino Rivadavia"  
Av. Angel Gallardo 470  
Buenos Aires, ARGENTINA

GRISWOLD, Charles E. \*  
Univ. of California

201 Wellman Hall  
Berkeley, CA 94720

GERTSCH, Wilkist J. \*  
Portal, Ariz. 85632  
Dept. of Zoology  
Arizona State University  
Tempe, AZ 85287

GIVENS, Robert P. \*  
Univ. of Ill./Zoology  
103 Vivarium Bldg.  
Healey & Wright Sts.  
Champaign, Ill. 61820

GLADNEY, William J. \*  
Entomology Research Division  
U.S.D.A. Box 232  
Kerrville, TX 78028

GOLDFARB, Iris Linda \*  
Dept. of Biology  
City College of NY  
Convent Avenue at 138 St.  
New York, NY 10031

GONZALEZ ISPONGA, M.C.P.A. \*  
Instituto Pedagógico  
Dept. de Tecnología Audiovisual  
Avenida Paez--El Paraíso  
Caracas, D. F., VENEZUELA

GOODNIGHT, Clarence U. \*  
Dept. of Biology  
Western Michigan Univ.  
Kalamazoo, Mich. 49001

GORHAM, John Richard \*  
FDA HFF 12700 Rockville Rd  
2000 Rockville Street, S.W.  
Washington, D. C. 20204

GORTON, Ralph G. \*  
Lansing Community College  
Science Dept.  
419 North Capitol Avenue  
Lansing, Mich. 48914

GOWAN, T. Daye \*  
Box 911  
Georgia Southwest College  
Americus, GA 31709

GREENSTONE, Matthew \*  
Dept. of Zoology  
Univ. of California  
Berkeley, CA 94720

GRUBER, Jürgen \*  
Naturhistorisches Museum Wien  
3. Zoologisches Abteilung  
Postfach 417 Burgring 7

A-1014 Wien, AUSTRIA

GUARISCO, Hank \*  
Box 3171  
Lawrence, Kansas 66044

Gwynne, Darryl T. \*  
Colorado State Univ. 80523  
Dept. of Zoology & Entomology  
Ft. Collins, Colo. 80521

HADLEY, Neile F. \*  
Dept. of Zoology  
Arizona State University  
Tempe, Ariz. 85281

HAGSTRUM, David W. \*  
USDA Insect Attractants,  
Behavior & Basic Research Lab.  
P. O. Box 14565  
Gainesville, FL 32601

HARADON, Richard M., Jr.  
29 Cedar Ave.  
Stoneham, Mass. 02180

HARDMAN, J. M. \*  
Dept. of Biol. Sciences  
Simon Fraser Univ.  
Burnaby, BC V5A 1S6 CANADA

HARP, Joel M. \*  
3606 S. Huges  
Amarillo, TX 79110

HARPER, Charles A. \*  
Bechtel Corporation  
P. O. Box 3965  
San Francisco, CA 94119

HAYES, Jack. \*  
 School of Medicine  
 Texas Tech University  
 P. O. Box 4569  
 Lubbock, TX 79409

HAYNES, Dean L.  
 Dept. of Entomology  
 Michigan State Univ.  
 East Lansing, Mich. 48823

HEBAR, Karen \*  
 Inst. f. Exper. Zool.  
 Hochschule f. Bodenkultur  
 Gregor Mendel Strass 33  
 A-1180 Vienna, AUSTRIA

HEISS, John S.  
 Dept. of Entomology  
 Univ. of Arkansas  
 Fayetteville, Ark. 72701

HENNESSEY, Michael K. \*  
 11 Adams Dr.  
 Whippanny, NJ 07981

HENRIQUES, Laurence Peter  
 Rugby School--Cotton House  
 10 Hillmorton Road  
 Rugby, Warwicks  
 ENGLAND

HIGASHI, Gail A.  
 2244 Kula Lolea Drive  
 Honolulu, Hawaii 96819

HILL, Stuart Baxter  
 Macdonald Campus of McGill Univ.  
 P. O. Box 86  
 Ste. Anne de Bellevue  
 Quebec, 800 CANADA

HITE, Maxine  
 Arkansas State Univ.  
 Drawer WW  
 State University, Ark. 72467

HJELLE, John T. \*  
 19 Melrose Ave.  
 San Francisco, CA 94131

HOBBS, Donna E.  
 Biology Dept.  
 Univ. of New Mexico  
 Albuquerque, NM 87131

HOFF, C. Clayton \*  
 Biology Dept.  
 University of New Mexico  
 Albuquerque, NM 87131

HOFFMANN S., Dr. Anita \*  
 San Angel Inn  
 Campestre 27  
 Mexico 20, D. F. MEXICO

HOLM, Dr. Ake  
 Zoological Institute  
 Box 561  
 751 22 UPPSALA SWEDEN

HOLMBERG, R. G. \*  
 Athabasca University  
 14515-122 Ave.  
 Edmonton, Alberta  
 T5L 2W4 CANADA

HOM, Kevin S. \*  
 667 39th Ave.  
 San Francisco, CA 94121

HORNER, Norman V. \*  
 Biology Dept.  
 Midwestern University  
 3400 Taft  
 Wichita Falls, TX 76308

HORTON, Charles \*  
 Zool. Dept., Morrill Science Cen.  
 Univ. of Massachusetts  
 Amherst, Mass. 01002

HOWARTH, Francis G. \*  
 Bernice P. Bishop Museum  
 P. O. Box 6037  
 Honolulu, Hawaii 96818

HOWELL, James O.  
 Univ. of Ga. Experiment Sta.  
 Experiment, GA 30212

HUBBARD, Michael D. \*  
 Entomology Section  
 Box 111--Univ. P. O.  
 Florida A & M Univ.  
 Tallahassee, Fla. 32307

HUBLE, Dr. Jan \*  
 Laboratory Animal Ecology  
 Ledegankstr. 35  
 Gent B 9000 BELGIUM

HUGHES, Stephen E. \*  
 Dept. of Zool.,--Morrill Sci. Cen  
 Univ. of Mass.  
 Amherst, Mass. 01002

HUNT, R. Howard \*  
 Atlanta Zoological Park  
 800 Cherokee Ave. S.E.  
 Atlanta, GA 30316

HUNTER, Michael \*  
 218 N. Duval #3  
 Tallahassee, Fla. 32301

HYATT, K. H.  
 British Museum (Natural Hist.)  
 Cromwell Road  
 London SW 7, ENGLAND

ICENOGLIE, Wendell R. \*  
 32631 Grand Avenue  
 Winchester, CA 92396

IMAMURA, Taiji \*  
 Dept. of Biology  
 Ibaraki University  
 Bunko 2-chome 1-1- Mito  
 Mito, Ibaraki Pref. JAPAN

JACKSON, Robert R. \*  
 NC Dept. of Mental Health  
 Research Div., Box 7532  
 Raleigh, NC 27602

JACOBSON, Larry  
 3024 Enders Ave.  
 Bellingham, Wash. 98225

JARMAN, R. A.  
 9, Rivers Rd., Teynham  
 Nr. Sittingbourne  
 Kent, ME9 9TD  
 GREAT BRITAIN

JENNINGS, Daniel T. \*  
 Rocky Mountain Forest & Range  
 Experiment Station  
 5423 Federal Building  
 Albuquerque, NM 87101

JILLSON, Raymond R. \*.  
 6566 Elder Street  
 Los Angeles, CA 90042

JOHNSON, Allan D. \*  
 2330 North Kedzie Blvd.  
 Chicago, Ill. 60647

JOHNSON, Bob D.  
 Dept. of Biology  
 Univ. of Dayton  
 Dayton, Ohio 45409

JOHNSON, Peter \*  
 Depauw Univ.  
 Harrison Hall, Dept. of Zoology  
 Green Castle, Ind. 46135

JOHNSON, Steve \*  
 4624 Orchard Ave.  
 San Diego, CA 92107

JUDD, William W.  
 Dept. of Zoology  
 Univ. of Western Ontario  
 London, Ontario CANADA

JUNG, Albert K. S. \*  
 Dept. of Zoology  
 Univ. of Florida  
 Gainesville, Fla. 32601

KAMM, Dwight  
 Div. of Biol. Sci., Snow Hall  
 Univ. of Kansas  
 Lawrence, Kansas 66044

KARPINSKI, Mary E. \*  
 c/o Payne  
 138 W. Constitution #F  
 Norman, OK 73069

KOMAREK, E. V.  
 Tall Timbers Res. Station  
 Route 1, Box 160  
 Tallahassee, Fla. 32303

KASPAR, John L.  
 Professor of Biology  
 University of Wisconsin  
 Oshkosh, Wisc. 54901

KOPONEN, Seppo  
 Dept. of Zoology  
 Univ. of Turku  
 SF-20500 Turku 50, FINLAND

KASTON, B.J. \*  
 Dept. of Zoology  
 California State Univ.  
 San Diego, CA 92182

KRAFFT, Dr. B.  
 Laboratoire De Psycho Physiol.  
 Universite De  
 Nancy 1, Case Officielle #140  
 54037 Nancy Cedex, FRANCE

KEEGAN, Col. Hugh L. \*  
 Dept. of Preventative Medicine  
 Univ. of Miss. Medical Center  
 Jackson, Miss. 39216

KRAUS, Prof. Dr. O.  
 Zool. Staatinst.  
 Von Melle Park 10  
 2000 Hamburg 13  
 GERMANY

KILLEBREW, Don W. \*  
 818 Vine Street  
 Bryan, TX 77801

KRIVDA, Walter  
 P. O. Box 864  
 The Pas, Manitoba CANADA

KIRKENDALL, Larry \*  
 Div. of Biol. Sci.  
 Univ. of Michigan  
 Ann Arbor, Mich. 48104

KRONESTEDT, T.  
 Naturhistoriska Rijsmuseet  
 Fack, S-105  
 Stockholm 50, SWEDEN

KJELLESVIG-WAERING, Erik N. \*  
 P. O. Box 699  
 Marco Is., Fla. 33937

KUSCHEVICK, Tomas Cekalovic.  
 Museo  
 Universidad de Concepcion  
 Castilla 1807  
 Concepcion, CHILE

KLEE, George E.  
 Dept. of Biol., Kent State Univ  
 Stark Regional Campus  
 Canton, Ohio 44720

KUTCHER, Steven R. \*  
 Biology Dept.  
 California State Univ.  
 6101 E. 7th Street  
 Long Beach, CA 90840

KNOST, Susan J.  
 1717 Starbrook Dr.  
 Charlotte, NC 28210

LARREA, Catherine  
 3195 Heights Dr. F  
 Reno, Nevada 89503

KNOWLTON, George F.  
 Biology Dept. UMC-53  
 Utah State Univ.  
 Logan, Utah 84321

LAWLER, Nan \*  
 1753 Grand Ave.  
 Santa Barbara, CA 93103

LEE, Vincent F. \*  
 California Academy of Sciences  
 Golden Gate Park  
 San Francisco, CA 94118

LEECH, Robin E. \*  
 Research Secretariat  
 Alberta Environment  
 Milner Bldg. 10040--104 St.  
 Edmonton, Alberta CANADA  
 T5J 0Z6

LEGG, Dr. Gerald  
 Booth Museum  
 194, Dyke Road  
Brighton, Sussex ENGLAND

LEHTINEN, Pekka T.  
 Dept. of Zoology  
 Univ. of Turku  
 20500 Turku 50 FINLAND

LEIGH, Thomas F. \*  
 Univ. of California, Davis  
 17053 Shafter Avenue  
 Shafter, CA 93263

LEIGHTON, Ronald \*  
 3 Winterburn Heights, West Derby  
 Liverpool 12, Lancashire  
 L12 858 UNITED KINGDOM

LEVI, Herbert W. \*  
 Museum of Comparative Zoology  
 Harvard University  
 Cambridge, Mass. 02138

LEWIS, Jerry \*  
 P. O. Box 2582  
 Carbondale, Ill. 62901

LIGHT, Edwin L. \*  
 Univ. of Colorado Museum  
 Boulder, Colo. 80302

LINN, Charles E., Jr. \*  
 Biol. Dept. Cal. State Univ.  
 6101 E. 7th St.  
 Long Beach, CA 90840

LISE, Arno Antonio  
 Pontifícia Universidade Católica  
 do Rio Grande do Sul  
 Museu de Ciências  
 Avenida Ibiranga 6681  
 Porto Alegre, BRAZIL

LOFRANO, Fred  
 2505 Tipperary Ave.  
 So. San Francisco, CA 94080

LOWRIE, Donald C. \*  
 Route 2 Box 331 F  
 Santa Fe, NM 87501

LUBIN, Yael D. \*  
 Smithsonian Tropical Res. Inst.  
 P. O. Box 2072  
 Balboa, CANAL ZONE

LUCAS, Ken  
 720 Bradford Way  
 Pacifica, CA 94044

LUCAS, William J., Jr. \*  
 11359 Boyne Blvd.  
 Allendale, Mich. 49401

LUCZAK, Dr. Jadwiga  
 Institute of Ecology  
 05-150 Lomianki  
 Dziekanow Lesny, POLAND

MAC MAHON, James A. \*  
 Dept. of Zoology  
 Utah State Univ. (UMC 53)  
 Logan, Utah 84322

MADDISON, Wayne \*  
 4108 Apple Valley Lane  
 Burlington, Ontario  
 L7L 1Z2 CANADA

MAHNERT, Volker \*  
 Muséum d'Histoire Naturelle  
 route de Malagnou, c.p. 284  
 1211 Geneve 6 SWITZERLAND

MALCOLM, David R. \*  
 Division of Science  
 Pacific University  
 Forest Grove, Ore. 97116

MANUEL, Raymond \*  
 Dept. of Entomology, Macdonald  
 College of McGill Univ.  
 1 Maple Avenue, Box 33  
 Montreal H9X 3M1, Quebec, CANADA

MARER, Patrick J. \*  
 Dept. of Entomology  
 Univ. of Calif., Davis  
 Davis, CA 95616

MARINKELLE, C. J.  
 Universidad de los Andes  
 Calle 18-A, Carrera 1-E  
 Apartado Aereo 4976  
 Bogota, D. E. COLOMBIA

MARQUA, David G. \*  
 Los Angeles Co. Nature Center  
 1000 N. Durfee Ave.  
 South El Monte, CA 91733

MARQUEZ-MAYAUDON, Carlos \*  
 Instituto de Biologia  
 Univ. Nac. Autonoma de Mexico  
 Mexico 20, D. F. MEXICO

MARTIN, Eliezer F.  
 Museo de Historia Natural  
 Nuevo Bosque de Chapultepec  
 Apartado 18, D. F. MEXICO

MATLACK, Martin C. \*  
 Dept. of Biol.  
 Univ. of N. M.  
 Albuquerque, NM 87131

MATTHIESEN, Fabio Aranha \*  
 Fac. do Filosofia Ciencias e  
 Letras de Rio Claro  
 P. O. Box 178  
 Rio Claro SP BRAZIL

MAURY, Emilio A. \*  
 Mus. Argentino de Cienc. Nat.  
 Angel Gallardo 470  
 Casilla Correo 10, Suc. 5  
 Buenos Aires, ARGENTINA

MC ALISTER, W. H.  
 The Victoria College  
 2200 E. Red River  
 Victoria, TX 77901

MC CRONE, John D. \*  
 Dean, Sch. of Arts & Sci.  
 Western Carolina Univ.  
 Cullowhee, NC 28723

MC GHEE, Charles R. \*  
 Dept. of Biology  
 Middle Tennessee State Univ.  
 Box 292  
 Murfreesboro, Tenn. 37130

MERRETT, Dr. Peter \*  
 Inst. of Terrestrial Ecology  
 Furzebrook Research Station  
 Wareham Dorset  
 BH20 5AS ENGLAND

MESIBOV, Bob  
 P. O. Savage River  
 Tasmania 7321 AUSTRALIA

MESKILL, Judith \*  
 437 S Street  
 Morristown, NJ 07960

MINCH, Edwin W. \*  
 Arizona State Univ.  
 Dept. of Zool., L.S.C. 226  
 Tempe, Arizona 85281

MITCHELL, Robert W. \*  
 Dept. of Biology  
 Texas Tech University  
 Lubbock, TX 79409

MOEUR, John E. \*  
 Zoology Dept.  
 University of Georgia  
 Athens, GA 30602

MONROE, Ronald  
 20 Samara Street Sunnybank  
 Brisbane, 4109, AUSTRALIA

MONTELEONE-RUNHOLT, Muriel \*  
 Rt. 2  
 Marshall, Minn. 56258

MOODY, James V. \*  
 Texas Tech University  
 Ent. Sect. Agr. Bldg.  
 Lubbock, TX 79409

MOODY, Marjorie J. \*  
 205-C No. Hall Avenue  
 Visalia, CA 93277

MOORE, Frank J.  
 Dept. of Entomology  
 Ohio State Univ.  
 1735 Neil Ave.  
 Columbus, Ohio 43210

MORETON, Ann \*  
 Writer-Photographer  
 Route 2  
 Powhatan, VA 23139

MORGAN, Paul N. \*  
 VA Hospital  
 Medical Research  
 300 E. Roosevelt Rd.  
 Little Rock, Ark. 72206

MOSIG, Dirk Walter  
 Georgia Southwestern College  
 Dept. of Psychology  
 715 Pine Avenue  
 Americus, GA 31709

MOSS, Charles D.  
 Arizona State Univ.  
 Dept. of Zoology  
 Tempe, Ariz. 85281

MOULDER, Bennett C.  
 Biology Dept.  
 Illinois College  
 Jacksonville, Ill. 62650

MUCHMORE, William B. \*  
 Dept. of Biology  
 Univ. of Rochester  
 Rochester, NY 14627

MULLEN, Gary R. \*  
 Dept. of Zool.--Ent.  
 Auburn Univ.  
 Auburn, AL 36830

MULLINEX, Carolyn \*  
 Entomology Dept.  
 California Academy of Sciences  
 Golden Gate Park  
 San Francisco, CA 94118

MUMA, Martin H. \*  
 P.O. Box 2020  
 Silver City, NM 88061

MUNDEL, Peter \*  
 Dept. of Zoology  
 Univ. of Texas  
 El Paso, TX 79968

MURPHY, John & Frances \*  
 323 Hanworth Road, Hampton  
 Middlesex, TW 12 3 ET  
 ENGLAND

MUTCHER, Steven R.  
 Biology Dept.  
 Calif. State University  
 Long Beach, CA 90840

MORRISON, Eston O.  
 Dept. Biol. Sciences  
 Tarleton State College  
 Stephenville, TX 76401

NAUD, Lee  
 Universal Studios  
 3900 Lankershim Blvd.  
 Universal City, CA 91608

NEAL, John William, Jr. \*  
 USDA, ARS, East  
 Building 467-C  
 Beltsville, MD 20705

NELLIST, David Richard \*  
 15, Newlyn Close, Bricket Wood  
 St. Albans, Herts AL2 3UP  
 ENGLAND

NELSON, John M. \*  
 Oral Roberts University  
 7777 South Lewis  
 Tulsa, OK 74105

NELSON, Sigurd, Jr. \*  
 Dept. of Zoology  
 State University of N. Y.  
 Oswego, NY 13126

NISHIKAWA, Yoshiski  
 Biol. Labor. Otemon-Gakuin Univ.  
 230 Ai Ibaraki  
 Osaka, JAPAN

NORTON, Roy A. \*  
 Dept. of Forest Zoology  
 College Envir. Sci. & Forestry  
 Syracuse Campus  
 Syracuse, NY 13210

OBENCHAIN, Frederick D.  
 Route 1, Colonial Hgts.  
 Statesboro, GA 30458

O'DONNELL, Mark  
 6238 Ventura Canyon Ave.  
 Van Nuys, CA 91401

OEHLER, Charles  
 Cincinnati Museum of Nat.Hist.  
 1720 Gilbert Avenue  
 Cincinnati, Ohio 45202

O'HARE, Erin  
 10 I.U.Willets Rd. W.  
 Roslyn, NY 11576

OLIVARES, Manuel A.  
 Dept. of Entomology  
 University of Kansas  
 Lawrence, KS 66044

OLMSTEAD, Jack V. \*  
 Dept. of Biology  
 Calif. State Univ.  
 Long Beach, CA 90840

OPELL, Brent D. \*  
 Museum of Comparative Zoology  
 Harvard University  
 Cambridge, Mass. 02138

OWEN, Ann  
 113 B Lacob  
 Spring Lake, NC 28390

OLLERENSHAW, Barry Marsland  
 "Wyldacre" West Park  
 Hyde, Cheshire, ENGLAND

PARKER, J. R.  
 Peare Tree House  
 Blennerhasset Green  
 CARLISLE, Cumbria CA5 3RE  
 ENGLAND

PARKER, W. S. \*  
 Dept. of Biological Sciences  
 Miss. Univ. for Women  
 Columbus, Miss. 39701

PEAKALL, David B.  
 Langmuir Lab  
 Cornell Univ.  
 Ithaca, NY 14850

PEASLEE, Juanita \*  
 Route #1  
 Centerview, Missouri 64019

PECK, William B. \*  
 Dept. of Biology  
 Central Missouri State Univ.  
 Warrensburg, MO 64093

PEDNEAULT, Andre  
 365 Rue Morin  
 Chicoutimi, Quebec, CANADA

PICKLE, John H., Jr.  
 802 Frank Drive  
 Champaign, Ill. 61820

PENNIMAN, Andrew J. \*  
 Ohio State Univ.  
 Dept. of Zoology  
 1735 Neil Avenue  
 Columbus, Ohio 43210

PETTIT, Billy H. \*  
 6761 Segovia Rd.  
 Mississauga, Ontario  
 LSN 1P1 CANADA

PHERSON, David A.  
 Northwestern Univ.  
 Evanston, Ill. 60201

PINTER, Lawrence \*  
 Dept. of Entomology  
 2500 Dole St., Room 23  
 Univ. of Hawaii  
 Honolulu, Hawaii 96822

PLATNICK, Norman \*  
 Dept. of Entomology  
 American Museum of Nat. Hist.  
 Central Park West at 79th St.  
 New York, NY 10024

POLIS, Gary A.  
 879 Grape  
 Riverside, CA 92507

PRATT, Joe D.  
 Westmoor Park, 119 Flagg Rd.  
 West Hartford, Conn. 06117

PRENTICE, John H.  
 1825 T St., N.W., #608  
 Washington, D. C. 20009

PRESTWICH, Kenneth N.  
 Dept. of Zoology  
 Univ. of Florida  
 Gainesville, Fla. 32601

PROSYNSKI, J.  
 Zaklad Biologii  
 W.S.N. ul Prusa 12  
 08100 Siedlce, POLAND

FUHRINGER, Dr. Gottfried \*  
 Inst. Exp. Zool. u. Vergl.  
 HS fur Bodenkultur  
 Gregor-Mendelstrasse 33  
 A-1180 Wien, AUSTRIA

PURRONE, Alan D. \*  
 482 Edison Road  
 Trumbull, Conn. 06611

QUINTERO, Diomedes \*  
 Escuela de Biología  
 Univ. de Panamá  
Estateta Universitaria  
 Panama, PANAMA

RADOVSKY, Frank J.  
 c/o Bishop Museum  
 P. O. Box 6037  
 Honolulu, Hawaii 96818

RALSTON, James  
 Dept. of Zool., 220 Nat.Sci.Bld  
 Michigan State Univ.  
 East Lansing, Mich. 48823

RAMELA, Maria  
 Instituto de Biología Aplicada  
 Universidad de Barcelona  
 Barcelona - 7, SPAIN

RANDALL, John B. \*  
 2806 NE 17th Drive  
 Gainesville, Fla. 32601

RANDALL, Winnifred  
 Dept. of Biology  
 Case Western Reserve Univ.  
 Cleveland, Ohio 44106

RAPP, William F. \*  
 430 Ivy Ave.  
 Crete, Neb. 68333

REDDELL, James \*  
 Texas Tech University  
 Dept. of Biology  
 Lubbock, TX 79409

REDNER, Jim  
 Entomology Research Inst.  
 K.W. Neatby Bldg., Carling Ave.  
 Ottawa, Ont. K1A 0C6 CANADA

REEDER, William G. \*  
 Dept. of Zoology  
 Univ. of Wisconsin  
 Noland Bldg, 250 N. Mills St.  
 Madison, Wisc. 53706

REISKIND, Jonathan \*  
 Dept. of Zoology  
 University of Florida  
 Gainesville, Fla. 32601

RENAULT, Thadde R.  
 Forest Research Lab.  
 P. O. Box 4000  
 Fredericton, New Brunswick  
 CANADA

RENTZ, David C. \*  
Assist. Curator/Dept. Ent.  
Cal. Academy of Sciences  
Golden Gate Park  
San Francisco, CA 94118

RICHARDSON, Mary W. \*  
Southern Illinois Univ.  
Carbondale, Ill. 62901

RICHMAN, David B. \*  
Dept. of Zoology  
Univ. of Florida  
Gainesville, Fla. 32601

RIDDLE, Wayne A. \*  
Univ. of New Mexico  
Dept. of Biology  
Albuquerque, NM 87106

RIECHERT, Susan E. \*  
Zoology Dept.  
501 Hesler Biology Bldg.  
University of Tennessee  
Knoxville, TN 37916

ROBERTS, M. J. \*  
"NODFA"  
41, Padeswood Road  
Buckley, CH7 2JL  
Flintshire, N. Wales, ENGLAND

ROBINSON, Michael H.  
Smithsonian Trop. Res. Institute  
P. O. Box 2072  
Balboa, CANAL ZONE

ROSIN, Ruth  
16 West 82nd St.  
New York, NY 10024

ROSSMAN, Douglas A. \*  
Louisiana State Univ.  
Museum of Zoology  
Baton Rouge, La. 70803

ROTH, Vince D. \*  
Southwestern Research Sta.  
Portal, Arizona 85632

ROVNER, Jerome S. \* 23  
Dept. of Zoology  
Ohio University  
Athens, Ohio 45701

ROWLAND, Dan L. \*  
Dan L. Rowland & Assoc., Inc.  
1000 W. La Palma Ave.  
Anaheim, CA 92801

ROWLAND, J. Mark  
318 Arguello Blvd., Apt. 1  
San Francisco, CA 94118

SAARISTO, M. I.  
Dept. of Zoology  
University of Turku  
20500 TURKU 50, FINLAND

SADANA, Dr. G. L.  
Dept. of Zoology-Entomology  
Punjab Agricultural Univ.  
Ludhiana, Punjab INDIA

SAITO, Hiroshi  
Asahi-CHO 3-772  
Ashikaga-She, Tochigi-Ken  
JAPAN

SARINANA, Frank O.  
City of Hope Medical Center  
Duarte, CA 91010

SAUER, Richard J. \*  
Michigan State Univ.  
Dept. of Entomology  
East Lansing, Michigan 48823

SAVORY, Theodore H.  
11 Orchard Road  
Dorking, Surrey  
ENGLAND

SCHAEFER, Matthias \*  
Zool. Institut de Universitat  
Hegewischstrasse 3  
23 Kiel GERMANY

SCHIAPPELLI, R. D.  
Museo Argentino de Cienc. Nat.  
"Bernardino Rivadavia"  
Av. Angel Gallardo 470  
Casilla de Correo 10  
Buenos Aires, ARGENTINA

SCHICK, Robert \*  
 18745 Plummer St.  
 Northridge, CA 91324

SHULOV, A.  
 Dept. of Entomology  
 The Hebrew University  
 Jerusalem, ISRAEL

SCHLINGER, Evert I. \*  
 Dept. of Entomology  
 Univ. of California  
 Berkeley, CA 94720

SILER, Timothy  
 6883 N. Elm Tree Rd.  
 Milwaukee, Wisc. 53217

SCHMOLLER, Ron  
 P. O. Box 629  
 Cottonwood, AZ 86326

SILHAVY, V.  
 674 Ol Trebic  
 A. Dvoraka 26  
 CZECHOSLOVAKIA

SEDGWICK, Walter \*  
 Bar M Ranch  
 Boston, GA 31626

SIMS, Roger A.  
 108 Elmwood Ave.  
 Modesto, CA 95354

SEIDEL, D. R. \*  
 P. O. Box 205  
 Buckhannon, WV 26201

SLATTERY, Theresa \*  
 112 Ascan Ave.  
 Forest Hills, NY 11375

SHADAB, Mohammad Umar  
 Dept. of Entomology  
 Amer. Mus. Natural History  
 Central Park West at 79th St.  
 New York, NY 10024

SNETSINGER, Robert \*  
 Penn. State University  
 Dept. of Entomology  
 102 Patterson  
 University Park, PA 16802

SHEAR, William A. \*  
 Dept. of Biology  
 Hampden-Sydney College  
 Hampden-Sydney, VA 23943

SOARES, Helia E. M. \*  
 FCOMBB, Caixa Postal 103  
 18,610 - Rubiao Junior  
 Sao Paulo, BRAZIL

SHENEFELT, R. D.  
 Insectarium, Dept. of Entomol.  
 Univ. of Wisconsin  
 346A Russell Labs  
 Madison, Wisc. 53706

SOILEAU, Carmen \*  
 Dept. of Zoology  
 Southern Illinois Univ.  
 Carbondale, Ill. 62901

SHERIDAN, Dennis \*  
 965 Pacific  
 Morro Bay, CA 93442

SOLEGLAD, Michael E. \*  
 3927 Polack St.  
 San Diego, CA 92110

SHOLES, Owen \*  
 224 Langmuir Lab  
 Cornell University  
 Ithaca, NY 14850

SPEILMAN, A.  
 Dept. of Tropical Pub. Health  
 Harvard School of Pub. Health  
 25 Shattuck St.  
 Boston, Mass. 02115

SHOCK, Roland \*  
 Central Wash. State College  
 Dept. of Biol. Sci.  
 Ellensburg, WA 98926

SELLERBERG, William \*  
 5419 Christy Blvd.  
 Saint Louis, MO 63116

STAHNKE, Herbert L. \*  
 2016 E. Laguna Drive  
 Tempe, Ariz. 85282

SUZUKI, Seisho \*  
 Hiroshima Univ., Zool. Lab.  
 Higashisenda-Machi,  
 Hiroshima, 730 JAPAN

STARR, Christopher K. \*  
 Dept. of Entomology  
 The Univ. of Kansas  
 Lawrence, Kansas 66044

SWEET, Ray A.  
 Pope John Sec. School, Box 370  
 Koforidua, GHANA

STELNICKI, Thomas D.  
 R-R #1 - 29 Fival Ranches  
 New Port Richey, Fla. 33552

SZERLIP, Sigurd L. \*  
 201 Wellman Hall, Dept. of Ent.  
 Univ. of California  
 Berkeley, CA 94720

STEWARD, Kenneth W.  
 Dept. of Biology  
 North Texas State Univ.  
 Denton, TX 76203

TANAKA, Hozumi \*  
 Entomological Laboratory  
 Univ. of Osaka Prefecture  
 Mozu-Umemachi Sakai  
 Osaka. 591 JAPAN

STOCKTON, William D. \*  
 Calif. State Univ., Long Beach  
 6101 E. 7th Street  
 Long Beach, CA 90840

TARISSANTS, Marie-Cecile \*  
 a/s Dr. J. G. Pilon, Dept. Biol.  
 Universite de Montreal  
 C. P. 6128, Montreal 101  
 Quebec, CANADA

STONE, Karl J. \*  
 813 NW 20th Street  
 Minot, ND 58701

TAYLOR, Brian \*  
 Oak Forest Lane  
 Bethany, MO 64424

STOWE, Mark K. \*  
 161 Grand View Ave.  
 Hamden, Conn. 06514

TESSLER, Steven \*  
 Pennsylvania State Univ.  
 1221 ½ Old Boalsburg Rd.  
 State College, PA 16801

STRANDTMANN, Russell W.  
 Dept. of Biology  
 Texas Tech Univ.  
 Lubbock, TX 79409

THALER, K. \*  
 6020 Innsbruck  
 Zoologisches Institute  
 Universitatstr 4  
 AUSTRIA

STRAUMFORS, Mr. P.  
 Hubergueien 8H  
 8613 Selfors, NORWAY

THEWKE, Siegfried E.  
 Res. Specialist--Entomol.  
 1-87 Agriculture Bldg.  
 Columbia, MO 65201

SUMMERS, Gerald \*  
 Sect. of Faun. Surveys, & Insect  
 Illinois Natural History Survey  
 Urbana, Ill. 61801

THILL, Joseph F. \*  
 36 Allegany Avenue  
 Kenmore, NY 14217

THIRY, Marc R. \*  
 313 East 15th Place  
 Lawrence, Kansas 66044

TURNBULL, Albert Lloyd \*  
 Dept. of Bio-Science  
 Simon Fraser Univ.  
 Burnaby 2, B. C. CANADA

THOMPSON, Mel E.  
 Whittier Narrows Nature Center  
 1000 No. Durfee Ave.  
 South El Monte, CA 91733

TUSSLER, Mr. W. H.  
 Hurricane House  
 Sanibel Is., Fla. 33957

THORN, Erik  
 1164 Patrick Street  
 Victoria, B. C., CANADA

TUXEN, S. L. \*  
 Zoologiske Museum  
 Universitetsparken 15  
 2100 Kobenhavn O  
 DENMARK

TIETJEN, William L. \*  
 Biology Dept.  
 Georgia Southwestern College  
 Americus, GA 31709

UBICK, Darrel \*  
 1516 Martin Ave.  
 San Jose, CA 95126

TOLBERT, Wayne W. \*  
 Graduate Program in Ecology  
 Univ. of Tennessee, 408 10th St.  
 Knoxville, Tennessee 37916

UETZ, George W. \*  
 Univ. of Illinois  
 202 Vivarium Bldg, Wright & Healy  
 Champaign, Ill. 61820

TONGIORGI, Prof. Paolo  
 Istituto di Zoologia  
 Via Universita, 4  
 4110 Modena, ITALY

UNZICKER, John D. \*  
 Ill. Natural History Survey  
 Urbana, Illinois 61801

TOOLSON, Eric C. \*  
 1110 Butte Ave.  
 Tempe, Arizona 85281

VACHON, Max  
 Museum Nat. d'Histoire Naturelle  
 61, Rue de Buffon  
 Paris, 75005 FRANCE

TRIGG, John R.  
 University of Dayton  
 Dayton, Ohio 45409

VAIL, David  
 Dept. of Zoology  
 220 Natural Science Bldg.  
 Michigan State Univ.  
 East Lansing, Mich. 48823

TRIPP, John R. \*  
 Biology Dept.  
 Florida Southern College  
 Lakeland, Fla. 33802

VALERIO, Carlos E. \*  
 Dept. de Biologia  
 Univ. de Costa Rica  
 Ciudad Universitaria  
 COSTA RICA

TRUDEAU, Thomas \*  
 Dept. of Wildlife & Fish. Sci.  
 Texas A & M Univ.  
 College Station, TX 77843

VAN DYKE, Don  
 Star Route Box 119A  
 Forest Falls, CA 92339

VAN HELSDINGEN, Peter J. \*  
 Ryksmuseum van Naturr. Hist.  
 Raamsteeg 2  
 Leiden, HOLLAND

VINCENT, Leonard S. \*  
 Univ. of California  
 201 Wellman Hall  
 Berkeley, CA 94720

VINEGAR, Allen \*  
 Dept. of Environ. Health  
 Kettering Lab., College Of Med.  
 Univ. of Cincinnati  
 Cincinnati, Ohio 45267

VLIJM, Prof. Dr. L.  
 Biol. Lab., Vrije Universiteit  
 De Boelelaan 1087  
 Amsterdam, HOLLAND

VOGEL, Beatrice \*  
 940 Poly Drive  
 Billings, Montana 59102

VOSSBRINCK, Charles R.  
 Dept. Zool. & Ent.  
 Colorado State Univ.  
 Fort Collins, Colo. 80523

VYVERBERG, Mildred \*  
 1320 NW 17th St.  
 Gainesville, Fla. 32605

WAGNER, Frederick W. \*  
 Dept. Biol. Sciences  
 Texas Tech Univ.  
 Lubbock, TX 79409

WAGNER, Janice  
 University of Illinois  
 Dept. of Biology, Box 4348  
 Chicago, Ill. 60680

WALCOTT, Charles \*  
 Div. of Biological Sciences  
 State Univ. of New York  
 Stony Brook, NY 11790

WALDORF, Elizabeth \*  
 2625 July Street  
 Baton Rouge, La. 70808

WALSH, Maurice \*  
 12-D Vairo Blvd.  
 State College, Pa. 16801

WALLACE, H. K. \*  
 1717 NW 23rd  
 Apt. 2D Sycamore  
 Gainesville, Fla. 32605

WANLESS, F. R. \*  
 Arachnology  
 British Museum (Nat. Hist.)  
 Cromwell Road  
 London SW 7 ENGLAND

WEAVER, Andrew A. \*  
 The College of Wooster  
 Dept. of Biology  
 Wooster, Ohio 44691

WEBB, James P., Jr.  
 Dept. of Biology  
 Texas Tech University  
 Lubbock, TX 79409

WEBB, R. J. \*  
 Oakdene, Castle Hill  
 Brenchley 2012  
 Conbridge, Kent  
 TN12 7DB ENGLAND

WESTON, Bob  
 3031 Glen Oaks St.  
 Clearwater, Fla. 33515

WEYGOLDT, Dr. Peter  
 Zool. Inst. der Univ.  
 Katharinenstr 20  
 78 FREIBURG in Breisgau GERMANY

WHARTON, G. W. \*  
 Acarology Laboratory  
 Ohio State Univ.  
 484 West 12th Ave.  
 Columbus, Ohio 43210

WHATMOUGH, George W. \*  
 "Lindens" Gibraltar Hill  
 Lincoln  
 LN1 3BW ENGLAND

WHITCOMB, W. H. \*  
 Dept. of Entom. & Nemat.  
 University of Florida  
 Gainesville, Fla. 32601

WILLIAMS, Stanley C. \*

Dept. of Biology  
Calif. State Univ.  
San Francisco, CA 94132

WILSON, Dennis  
5733 Georgia  
Kansas City, Kansas 66104

van WINGERDEN, Walter K.R.E. \*

Department of Ecology  
Vrije Universitet  
De Boelelaan 1087  
Amsterdam, HOLLAND

WISE, David \*

Dept. of Biology  
University of New Mexico  
Albuquerque, NM 87131

WITT, Peter N. \*

NC Dept. of Mental Health  
Division of Research  
Box 7532  
Raleigh, NC 27611

WOLFF, Robert John \*

Biology Dept.  
Western Michigan Univ.  
Kalamazoo, Mich. 49008

WRENN, William J. \*

Dept. of Biology  
University of North Dakota  
Grand Forks, ND 58201

YAGINUMA, Takeo \*

Biological Laboratory  
Ohtemon-Gakuin University  
230 AI, Ibaraki, Osaka, JAPAN

YEARGAN, Kenneth \*

2077 Rebel Rd.  
Lexington, KY 40503

YONEDA, Hiromus \*

Laboratory of Biology  
Toin High School  
1-1-chome Toyohara-cho  
Wakayama-shi, JAPAN

ZAMUDIO V., Maria de la Luz \*

Amazonas 21  
Mexico, D. F. 5 MEXICO

ZEPP, Donald B. \*

Dept. of Entomology  
1-87 Ag. Bldg.  
University of Missouri  
Columbia, MO 65201

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 ENGLAND

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 Hope Department of Zoology  
 (Entomology)  
 Oxford, OX1 3PW ENGLAND

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CANADA

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NATURALE  
Lungadige Porta Vittoria, 9  
Verona, 37100 ITALY

Library \*  
PACIFIC FOREST RES. CENTRE  
Dept. of the Environment  
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Victoria, B. C. CANADA

THE VICTORIA COLLEGE \*  
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