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A News Forum for Acridologists and Orthopterists THE ORTHOPTERISTS' SOCIETY

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MESSAGE FROM THE EDITOR

This summer's meeting promises to be a very interesting and rewarding one, judging from the abstracts and articles that have already been submitted for publication in the 5th Proceedings. For those of you still planning on attending and participating in the meetings, please be sure to follow the instructions enclosed in this issue for proper submission of manuscripts.

Immediately following the Meetings this summer we will be releasing the first number of volume 11 of Metaleptea. The second number will be released in December. We continue to solicite articles, news notes, cartoons, items of interest to an orthopterological audience, and notices.

David A. Nickle Editor, Orthopterists' Society All corresponding Society business should be mailed to the Executive Secretary, Prof. S. K. Gangwere, Department of Biological Sciences, Wayne State University, Detroit, MI 48202, U.S.A

MEETINGS. - Meetings of the Orthopterists' Society are held on a triennial basis, in the United States, Latin America, Canada, or Europe. Symposia, research papers, and business conducted at the meetings are published in the <u>Proceedings of the Orthopterists' Society</u>.

MEMBERSHIP. - Membership is open to anyone expressing an interest in Orthoptera. Annual dues for members are \$15 (U. S. currency) and for students \$7 (U. S. currency). Members are entitled to all publications available for the duration of their membership.

PUBLICATIONS. - The Society's publications include a newsletter, Metaleptea, which is published biannually, the Proceedings of the Orthopterists' Society, which is published triennially in conjunction with the Meetings, and Occasional Papers, an irregularly published journal for medium to large sized papers dealing with research on any aspect of Orthoptera. For information regarding any of these publications, contact DR. David A. Nickle, Editor, SEL, USDA, C/O National Museum of Natural History, Smithsonian Institution NHB-168, Washington, D. C. 20560 U. S. A.

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REPORT FROM THE EXECUTIVE SECRETARY

As you know, Local Arrangements Committee Chairman Eugenio Morales, his associates, and I have been working on arrangements for the Society's forthcoming 5th International Meeting to be held at Valsain, Spain, July 17-21*, 1989. I have developed a computer spreadsheet that includes prospective participants' data, and I have sent each individual a letter of acknowledgment. I plan to send a second mailing this week. It will update the spreadsheet, enclose proof, and provide publication instructions.

To date, a gratifying number of members from 22 countries are either fully registered or in preliminary stages of registration for the 5th Meeting. I estimate that this early total includes only about half of those who will eventually participate. It follows that I need better information for adequate planning. Hence this plea that, if not already done, you submit immediately 1) your completed registration form (enclosed) so that I may guarantee space for you on the program and have accommodations set aside for your lodging and subsistence in the Valsain area. I also need 2) the title/s of any paper/s that you wish to read, along with 3) abstracts or resumes of these works, and 4) the registration fee of \$100 (Active Members) or \$25 (Student Members)**. Remember, registration and hotel costs will climb, and arrangements may be difficult to make on a last-minute basis. The program is filling rapidly, so you may have to read your presentation in title or by poster.

Hotel arrangements are currently under negotiation. Double rooms in Segovia or Madrid are expected to run from ptas 4,000 (good) to ptas 8,000 (excellent) per day and singles from ptas 3,000 to 5,000. Meals are expected to run from ptas 1,000 to 3,000 per day. (Ptas 115 = \$1 US currency, approximate). These projected costs, moderate as they are for an international meeting, may be subject to reduction in the case of individuals on a limited budget. The Morales committee is looking into less expensive alternatives.

In late April, I am going to Spain to complete meeting arrangements personally with Eugenio and his committee. Arrangements should have firmed up by that date allowing for announcement of the scientific program and the details of lodging and subsistence shortly thereafter. Eugenio and I will need firm hotel reservations in hand by the end of May, which means that, once notified, you will have to complete your hotel reservations promptly.

The ballots mailed with Metaleptea 10(1) have been tallied but not yet ertified by the Elections Committee, whose responsibility it is to monitor the election and inform the membership of the talley. The Committee's report will be released at the Valsain Meeting. For now, it is sufficient to note that R. F. Chapman, of Berkeley, CA, USA, has been elected President Elect for the 1989-1992 term and Baccio Baccetti, of

Siena, ITALY, Aola M. Richards, of Kensington, NSW, AUSTRALIA, and A. B. Ewen, of Saskatchewan, CANADA, Board Members for that term. Baccio Baccetti, of Siena, and Felice Capra, of Genoa, ITALY, Kurt Harz, of Steinsfeld, WEST GERMANY, and Eugenio Morales, of Madrid, SPAIN, were named Honorary Members, effective at the Valsain Meeting. I congratulate all of them on this well-deserved recognition.

In response to the query of some members about the significance of the one or more asterisks following their name on the mailing list, let me provide the following code to membership class: *Active, **Student, ***Honorary, ****Emeritus, and *****Sponsored.

The total membership of the Orthopterists' Society has burgeoned since the organization became global in scope. However, our objective is to represent the entire fraternity of orthopterists, a goal that can be met only if each current member considers himself/herself a membership committee member at-large and, as such, personally responsible for membership solicitation. This is the intent of enclosing, as we do routinely, a society brochure and membership application. I urge you to give these materials to students, colleagues, and others who, by virtue of their orthopterological interests, should be encouraged to join.

The total balance in the Society's two bank accounts equals only \$8,600.25 (US currency) as of March 21, 1989. This total is patently inadequate to meet operational costs, to say nothing of the 5th Meeting projected expenses. I urge prompt payment of any unpaid dues and meeting fees or deposits.

I look forward to seeing you at Valsain! Until then,

S. K. Gangwere Executive Secretary Orthopterists' Society

- * Please note that the meeting has been tentatively extended to include a Friday, July 21 morning session. This additional session is needed for a Workshop on Locust Pest Management (Organizer: M. P. Pener). All those who can stay on for this extra morning will find the deliberations productive.
- ** Registration after May 1, 1989, increases to \$150 (Active) and \$40 (Student).

THE ORTHOPTERISTS' SOCIETY

1988 FINANCIAL STATEMENT (In Dollars, US Currency)

* * * * * * *

Checking account balance Jan 1	\$2,451.80
Receipts	**
Dues	2,300.00
Publication receipts	23.00
Gifts & contributions	1,228.76
	25.43
Miscellaneous	
Total receipts	
Disbursements	45,502.15
Stationery & clerical supplies	0.00
Stamps, mailing, & telephone	868.76
Publication & printing	
Bank transfers to savings account	
Missellansons	121 30
Miscellaneous	¢4 610 31
Total disbursements	\$4,010.31
Receipts less disbursements (= deficit)	-1,028.12
Jan 1 balance less deficit	1 423 68
Checking account balance Dec 31	
Checking account parance Dec 31	#1,425.00

Savings account balance Jan 1	\$1,342.87
Descrite	Ð
Deposits Cash transfer	3 221 30
Interest on account (savings)	
Deposits	* / DO6 D3
Total deposits	\$4,900.93
Withdrawals Total withdrawals	1,445.36
Deposits less withdrawals (= surplus)	3,461.57
Jan 1 balance plus surplus	4.804.44
Savings account balance Dec 31	\$4.804.44
1 등	14 50 to \$500 150 120 150 150 150 150 150 150 150 150 150 15
* * * * *	
Society financial status (= checking + savings totals)	
as of Dec 31	\$6,228.12
WE OT DEC 21	, , , , , , , , ,

THE ORTHOPTEROID COLLECTION OF ERNEST R. TINKHAM

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The sudden death of Ernest R. Tinkham in February, 1987, ended a long and colorful entomological career. Tinkham published 89 scientific papers, articles, and book chapters, and described 106 species and subspecies of orthopteroid insects. While his papers stated where types and paratypes were deposited or to be deposited, that action was not always effected. Additionally, many of his types (46 total) were deposited in the "Tinkham Entomological Museum". This repository was no more than an attached room to his residence in Indio, California. Tinkham's collection represented the largest private orthopterological collection in the United States. I had several discussions with him over the five years preceding his death regarding the deposition of his collection. Unfortunately, 49 of his 106 holotypes (46%), including many from the Far East, have not been located. These missing types were mostly allocated between IU and TEM (see Table 1). Professor Hua (pers. comm. 1988) noted that the entomological collections at III [and HM] were left undisturbed in spite of the fervor of the Cultural Revolution of the 1960's and 1970's. It therefore appears that these types were simply never deposited at IU, a contention supported by my finding five holotypes, reportedly deposited there, in good condition despite more than 40 years of storage in Tucson, Arizona. These types have been returned to ZU. Holotypes supposedly at TEM, but missing, are more problematic. Those types found were well labelled and in good condition except for several alcoholics that needed replenishment. I simply never

Table 1. Number of holotypes found at cited depository or elsewhere.

Cited holotype depository*	Number of holo- types cited	Number of holo- types found
ANSP	14	10
CAS	3	3
HM	10	10
III	19	8
TEM	46	14
UCLA	1	1
UMMZ	2	1
USNM	_11_	_10
TOTAL	: 106	57

^{*} See text for key to abbreviations.

found the holotypes and hundreds of alcoholic paratypes, labeled or not, that should have been there. If pinned types were destroyed, their labels would have survived. Again, these were not found. Additionally, the general collection in Indio had been devestated by dermestids, the result of years of neglect. What was salvageable was generally poorly or incompletely labeled. These specimens are deposited at CAS, where using Tinkham's sketchy field notes, I will attempt to identify collection localities. Far East material (mostly China) will be divided between CAS and ANSP. Needless to say, this above tragic state of affairs argues strongly against deposition of types in private collections.

Through the generosity of Tinkham's widow, Marion, and at the suggestion of Dr. P. H. Arnaud, Chairman, Department of Entomology, CAS, a Tinkham archive will be established at CAS. Placed therein will be various representative works that reflect Tinkham's diverse interests: drafts of book chapters, manuscripts, poetry, field notebooks,

photographs, conservation efforts, and autobiographical materials.

The following list includes all of Tinkham's types, publication reference number (refer to accompanying bibliography for complete citation), where the holotype was supposedly deposited, and where the holotype, if located, presently is placed. Lastly, if the holotype is lost, and paratypes are known to exist, these will be listed to facilitate future possible lectotype designations. Starting in the 1960's if the holotype was a female, it was incorrectly designated as the allotype - this error is corrected in the list.

The following abbreviations are used:

A Allotype

ANSP Academy of Natural Sciences, Philadelphia, PA

CAS California Academy of Sciences, San Francisco, CA

H Holotype

HM Heude Museum, Aurora University, Shanghai, People's Republic of China [Material now at SIE]

Lingman University, Canton, People's Republic of China [Renamed ZU]

NL Holotype not located

P Paratype

SIE Shanghai Institute of Entomology, Academia Sinica, Shanghai, People's Republic of China [Repository of HM material]

TEM Tinkham Entomological Museum

UCLA University of California, Los Angeles, CA

UMMZ University of Michigan Museum of Zoology, Ann Arbor, MI

USNM United States National Museum, Washington, DC

ZU Zhongshan University, Institute of Entomology, Guangzhou People's Republic of China [Formerly IU]

Taxa within each group are listed alphabetically by genus. Higher taxonomic categories are based on those in Rentz (1979) and Kevan (1982). Names used are those cited in original publication.

Taxon F	Publication	Cited Type	Present Type	Comment
ACRIDIDAE				
Chapacris tonkinensis	24	TEM	CAS	A in CAS
Cibolacris samalayucae	66	TEM	NL	P in CAS
Coptacra formosana	24	none	NL	*
Coptacra hainanensis	24	LU	NL	
Coptacra lofaoshana	24	TEM	NL	
Ecphanthacris mirabilis	24	TEM	NL	
Eucoptacra kwangtungensis	24	LU	NL	
Incolacris hainanensis	24	LU	ZU**	
Miramella lofaoshana	24	LU	ZU	
Miramella shirakii	12	TEM	CAS	A in CAS
Miramella splendida	12	TEM	CAS	A in CAS
Niitakacris goganzanensis	12	TEM	CAS	A in CAS
Oxyrrhepes cantonensis	24	LU	ZU**	A in ZU
Podisma lofaoshana	9	LU	ZU	
Rhopaloceracris chapaensis	24	TEM	NL	
Schistocerca chinatiensis	41	TEM	NL	
Sinacris oreophilus	24	LU	NL	
Tauchira gressitti	24	LU	ZU**	A in ZU
Toacris shaloshanensis	24	TEM	CAS	A in CAS
Toacris yaoshanensis	24	LU	ZU**	A in ZU
Traulia lofaoshana	24	TEM	NL	
Trimerotropis agretis barnumi	65	TEM	NL	P in CAS
Trimerotropis a. gracewileyae	65	TEM	CAS	
Trimerotropis a. hewitti	73	CAS	CAS	
Trimerotropis arizonensis	39	TEM	CAS	
Trimerotropis citrina neomexica	ena 67	TEM	. CAS	
Tszacris haii	24	TEM	CAS	
Xenacanthippus hainanensis	24	LU	ZU**	
GRYLLACRIDIDAE	10 Ki			
Nippancistroger sinensis	9	LU	ZU	
MANTIDAE				
Amantis hainanensis	15	TEM	NL	
Amantis lofaoshanensis	15	LU	NL	
Amorphoscelis chinensis	15	LU	NL	A in USNM
Ceratohaania hainanensis	18	TEM	NL	
Deiphobe yunnanensis	18	LU	NL	
Hestiasula hoffmanni	18	TEM	NL	
Leptomantis tonkinae hainanae	18	TEM	NL	
Odontomantis javana hainana	18	TEM	NL	
Palaeothespsis oreophilus	15	USNM	USNM	
Pseudogousa sinensis	15	LU	NL	
Sinomiopteryx grahami	15	ANSP	ANSP	
Tropidomantis gressitti	15	TEM	NL	

Taxon	Publication	Cited Type	Present Type	Comment
RHAPHIDOPHORIDAE				
Ammobaenetes arizonensis	39	TEM	NL	
Daihinibaenetes giganteus	68	TEM	NL	
Daihinibaenetes tanneri	68	TEM	NL	
Macrobaenetes algodonensis	69	TEM	NL	
Macrobaenetes kelsoensis	69	TEM	NL	
Macrobaenetes sierrapintae	69	TEM	NL	
Utabaenetes tanneri	79	UMMZ	NL	
STENOPELMATIDAE				
Ammopelmatus kelsoensis	74	TEM	CAS	4
Stenopelmatus cahuilaensis	76	TEM	CAS	
Stenopelmatus mescaleroensis	89	TEM	NL	
Stenopelmatus nigrocapitatus	77	CAS	CAS	
Viscainopelmatus davewerneri	78	TEM	CAS	
TETRIGIDAE				
Eugavialidium formosanum	7	TEM	NL	P in ZU
Formosatettix arisanensis	17	TEM	NL	P in CAS
Formosatettix karenkoensis	17	TEM	NL	
Hancockia kwangtungensis	9	LU	NL	
Hydrotetrix hivaoana	19	UMMZ	UMMZ	
Rhopalina javana	23	ANSP	ANSP	
Rhopalotettix chinensis	23	LU	NL	
Rhopalotettix clavipes borneens	sis 23	ANSP	ANSP	
Rhopalotettix hainanensis	23	LU	NL	
TETTIGONIIDAE: CONOCEPHALINAE			· .	
Conocephalus pieli	31	НМ	SIE	
TETTIGONIIDAE: LISTROSCELIDINAE				
Rehnia pulchellus	34	TEM	UMMZ	A in CAS
TETTIGONIIDAE: MECONEMATINAE				El company Sources
Xiphidiopsis appendiculata	35	USNM	USNM	A in ANSI
Xiphidiopsis capricercus	31	нм	SIE	
Xiphidiopsis cervicercus	31	HM	SIE	
Xiphidiopsis emarginata	35	USNM	USNM	
Xiphidiopsis grahami	35	USNM	USNM	
Xiphidiopsis gurneyi	35	ANSP	ANSP	
Xiphidiopsis hastaticercus	9	FU	NL	
Xiphidiopsis hebardi	58	ANSP	ANSP	
Xiphidiopsis howardi	58	ANSP	ANSP	
Xiphidiopsis kulingensis	31	нм	SIE	
Xiphidiopsis kweichowensis	35	USNM	USNM	
Xiphidiopsis megafurcula	35	ANSP	ANSP	
Xiphidiopsis minutus	31	HM	SIE	
Xiphidiopsis omeiensis	58	ANSP	ANSP	

Taxon P	ublication	Cited Type	Present Type	Comment
Xiphidiopsis phyllocerca	35	ANSP	ANSP	A in USNM
Xiphidiopsis pieli	31	HM	SIE	
Xiphidiopsis rehni	58	ANSP	ANSP	
Xiphidiopsis sinensis	35	USNM	USNM	
Xiphidiopsis spathulata	35	USNM	USNM	
Xiphidiopsis szechwanensis	35	USNM	USNM	
Xiphidiopsis transversa	35	USNM	USNM	65
Xiphidiopsis yachowensis	3 5	USNM	USNM	
TETTIGONIIDAE: PHANEROPTERINAE				
Sinochlora hainamensis	36	TEM	NL	
Sinochlora kiangsuensis	36	ANSP	NL	
Sinochlora kwangtungensis	36	ANSP	NL	
Sinochlora sinensis	36	TEM	NL	
Sinochlora szechwanensis	36	ANSP	- NL	
TETTIGONIIDAE: TETTIGONIINAE: DE	CTICINI			
Atlanticus changi	25	нм	SIE	
Atlanticus grahami	25	USNM	NL	
Atlanticus hoffmanni	25	ANSP	NL	
Atlanticus kulingensis	25	HM	SIE	6
Atlanticus kwangtungensis	25	TEM	NL	32
Atlanticus magnificus	25	нм	SIE	
Atlanticus pieli	25	HM	SIE	
Eremopedes balli pallidus	34	TEM	NL	
Eremopedes ephippiatus sonorens	is 34	TEM	NL	
Eremopedes kelsoensis	83	TEM	NL	
Eremopedes shrevei	34	TEM	_ NL	
Petropedes santarosae	82	TEM	CAS	
Plagiostira gillettei utahensis	71	CAS	CAS	
Plagiostira mescaleroensis	64	TEM	NL	
Platyoplus gilaensis	84	TEM	NL	P in CAS
TIMEMATIDAE				
Timema boharti	28	UCLA	CAS	

^{*} This name was first used by Tinkham in reference #24, not having been cited by Karny (1915). As Tinkham's paper contains no description, no type data, or depository, and because no specimens have been located, this taxon was not included in calculations in Table 1.

^{**} These specimens were located in storage in Tucson, Arizona, and returned to ZU.

*Pertaining to Desert Studies

- 1934 1 *The dragonfly fauna of Presidio and Jeff Davis Counties of the Big Bend Region of Trans-Pecos Texas. Can. Entomol. 66: 213-221.
 - 2 An addition to the dragonfly fauna of Alberta. Can. Entomol. 66: 241.
- 1935 3 Preliminary notes on injurious rice grasshoppers of the genus Quilta Stal from South China and Cochin China (Orth.: Acrididae). Ling. Sci. J. 14(2): 321-325.
 - 4 Distributional and ecological notes on Acrididae from southeastern Kwangsi with a key to the genus Hieroglyphus. Ling. Sci. J. 14(3): 477-498.
 - 5 *The Mutillidae of Presidio and Jeff Davis Counties of the Big Bend Region of Trans-Pecos Texas. Can. Entomol. 67(10): 207-211.
- 1936 6 Spathosternum sinense Uvarov considered to be a race of S. prasiniferum (Walker) (Orth.: Acrididae). Ling. Sci. J. 15(1): 47-54, Pl. 6.
 - 7 A new species of Eugavilidium from Formosa. Trans. Nat. Hist. Soc. Formosa 26(152): 207-210.
 - 8 Notes on a small collection of Orthoptera from Rupeh and Kiangsi with a key to the genus Mongolotettix Rehn. Ling. Sci. J. 15(2): 201-218, Pl. 12.
 - 9 Four new species of Orthoptera from Loh Fau Shan, Kwangtung, S. China. Ling. Sci. J. 15(3): 401-413. Pls. 17-18.
 - 10 A new species of Macromia from Canton (Odonata: Anisoptera: Libellulidae). Ling. Sci. J. 15(3): 457-459.
 - 11 A note on the distribution of the Coprinid beetle Synapsis tridens Sharp. Ling. Sci. J. 15(3): 487-488. Fig. 1.
 - 12 A new genus and three new species of the group Podismae from Formosa with key and faunistic notes (Orth.: Acrididae). Trans. Nat. Hist. Soc. Formosa 26(158): 389-406, Pls. 3-4.
 - 13 Diurnal Lepidoptera from Loh Fau Shan, Lung Tau Shan and Yau Shan, Kwangtung, with a description of a new species. Ling. Sci. J. 15(4): 557-568, Pl. 25.
- 1937 14 Diurnal Lepidoptera from Loh Fau Shan, Lung Tau Shan and Yau Shan, Kwangtung, with a description of a new species. Ling. Sci. J. 16(1): 39-52.
 - 15 Studies in Chinese Mantidae. Ling. Sci. J. 16(3): 481-499. Pl. 16.
 - 16 Notes on a small collection of Acrydiinae from North China and Eastern Mongolia (Orth.: Acrididae). Peking Nat. Hist. Soc. Bull. 12(1): 47-51.
 - 17 Notes on the identity of Formosan Acrydiinae with descriptions of a new genus and two new species (Orth.: Acrididae). Trans. Nat. Hist. Soc. Formosa 27(169): 229-242, 1 Pl.

- 18 Studies in Chinese Mantidae. Ling. Sci. J. 16(4): 551-572, Pl. 17.
- 1938 19 A new species of <u>Hydrotetrix</u> from the Marquesas Islands with a key to the genus (Orthoptera, Acrididae, Acrydiinae). Ann. Mag. Nat. Hist. 11(1): 28-30.
 - 20 A new <u>Ceylonosticta</u> from South China (Odon.: Zygoptera: Coenagriidae). Ling. Sci. J. 17(1): 17-19, 2 Figs.
 - 21 *Western Orthoptera attracted to light. J. N. Y. Entomol. Soc. 46: 339-353.
- 1939 22 Five new records and notes on Canadian Acrididae from the Higdon Ranch, Southeastern Alberta.

 Can. Entomol. 71(6): 121-126.
 - 23 Revision of the genera <u>Rhopalotettix</u> Hancock, <u>Rostella</u> Hancock and allied and similar genera (Orth.: Acrididae: Acrydiinae). Ling. Sci. J. 18(3): 329-339: 18(4): 463-474.
- 1940 24 Taxonomic and biological studies on the Cyrtacanthacridinae of South China. Ling. Sci. J. 19(3): 271-382, Pls. 10-16, with many figures. (Doctoral Thesis).
- 1941 25 Zoogeographical notes on the genus <u>Atlanticus</u> with keys and description of seven new Chinese species. Notes d'Ent. Chinoise, Shanghai 8(5): 189-243, 1 double-page map, Pls. 1-3, with 53 Figs.
 - 26 *Biological and faunistic notes on the Cicadidae of the Big Bend Region of Trans-Pecos Texas.

 J. N. Y. Entomol. Soc. 49: 165-185. Pl. 6, Figs. 1-2.
- 1942 27 *The grasshoppers and other Orthoptera of Arizona, (with E. D. Ball, R. A. Flock and C. T. Vorhies). Tech. Bull. No. 93, Univ. of Arizona, pp. 257-373, 4 Pls. with many Figs.
 - 28 *A new Californian species of <u>Timema</u> (Phasmodea: Timemidae) with zoogeographical notes. Bull. S. Calif. Acad. Sci. 41(2): 72-79, Pl. 14.
 - 29 Notes on the Cicadidae of Alberta. Can. Entomol. 74(2): 155-156.
 - 30 *The rediscovery of <u>Anoplodusa arizonensis</u> (Orthoptera). Bull. Chicago Acad. Sci. 6(12): 221-227, 2 Figs.
- 1943 31 New species and records of Chinese Tettigoniidae from the Heude Museum, Shanghai. Notes d'Ent. Chinoise 10(2): 33-68, 12 figs.
 - 32 *Description and biological notes on a new Saturniid of the genus <u>Pseudohazis</u> from the Big Bend Region of Texas. Can. Entomol. 75(4): 159-162, 5 figs.
- 1944 33 *Faunistic notes on the diurnal Lepidoptera of the Big Bend Region of Trans-Pecos Texas with the description of a new Melitaea. Can. Entomol. 76(2): 11-18, 2 figs.
 - 34 *Biological, taxonomic and faunistic studies on the shield-back katydids of the North American deserts. Am. Midl. Nat. 31(2): 257-328, 1 map, 27 figs.

- 35 Twelve new species of Chinese leaf-katydids of the genus <u>Xiphidiopsis</u>. Proc. U.S. Nat. Mus. 94(3176): 505-527, fig. 157 with 20 illus.
- 1945 36 Sinochlora, a new Tettigoniid genus from China with description of five new species (Orthoptera). Trans. Am. Entomol. Soc. 70: 235-246, Pls. 6-7.
- 1946 37 A poison-squirting spider. Bull. U.S. Med. Dept. 5(3): 361-2.
- 1947 38 Insects of the Pacific world. Book Review. Am. Midl. Nat. 37(2): 517.
 - 39 *New species, records and faunistic notes concerning Orthoptera in Arizona. Am. Midl. Nat. 38(1): 127-149, 4 pls. with 32 figs.
- 1948 40 *Notes on the actions of the Audubon Caracara. Condor 50(6): 274
 - 41 *Faunistic and ecological studies on the Orthoptera of the Big Bend Region of Trans-Pecos Texas with especial reference to the Orthopteran zones and faunae of Midwestern North America. Am. Midl. Nat. 40(3): 521-667, 37 text figs.
- 1949 42 *Haunts and habits of the dragonfly Oplonaeschna armata. Entomol. News 60 (1): 15-16.
 - 43 *A record of the Scissor-tailed Flycatcher from the Colorado desert. Condor 51(2): 99.
 - 44 *Notes on the nest-building of the Vermilion Flycatcher. Condor 51(5):
- 1950 45 First annual report on eye gnat research and control for 1948-49. Coachella Valley Mosquito Abatement District, 28 typed pages, 8 figs., 9 charts.
- 1951 46 *On the recognition of two Lower Californian Horned Lizards. Herpetologica 7: 168-172, 3 text figs.
 - 47 *Gnat control in Coachella Valley. Proc. & Papers of the 19th Ann. Conf. Calif. Mosquito Control Assn., pp. 97-99.
- 1952 48 *The eye gnats of Coachella Valley with notes on the 1951 larviciding program. Proc. & Papers of the 20th Ann. Conf. Calif. Mosquito Control Assn., pp. 83-84.
- 1953 49 Two additions to the herpetofauna of North Dakota. Herpetologica 8: 179-180.
 - 50 *Control of eye gnats by soil larvacides. Proc. & Papers 21st Ann. Conf. Calif. Mosquito Control Assn., pp. 47-48.
 - 51 *The Sonoran-Sinaloa vegetation province. Abstract. Eighth Pacific Science Congress, Pacific Science Assn., Organizing Committee, Quezon City, Philippines. pp. 164-166.
- 1954 52 *Methods of mosquito source reduction and vindications of their costs. Proc. & Papers 22nd Ann. Conf. Calif. Mosquito Control Assn., 4 printed pages, 7 text figs.

- 53 *The longevity of soil larvacides with special reference to Dried Fruit Beetle control. Proc. 8th Ann. Research Conf. Fig Institute, Fresno. pp. 28-31, 2 charts.
- 54 *The biology and description of a new Giant Skipper from Arizona. Bull. S. Calif. Acad. Sci. 53(2): 75-87, figs. 15-20.
- 55 *The control of Date Beetles by eye gnat larvacides. Proc. 31st Annual Date Growers' Institute, pp. 12-13, 1 chart.
- 1955 56 *Description of the female <u>Mohavacris</u> <u>timberlakei</u> in a new family and subfamily of the Acridoidea. Bull. S. Calif. Acad. Sci. 54(3): 156-160, pl. 46 with 2 figs.
 - 57 *A note on the longevity of soil larvacides. Soil Zoology, Proc. Univ. Nottingham, 2nd Easter School in Agricultural Sciences, pp. 253-255.
- 1956 58 Four new Chinese species of <u>Xiphidiopsis</u> (Tettigoniidae: Meconematinae). Trans. Am. Entomol. Soc. 82: 1-16, pl. 1 with 8 figs.
 - 59 *The deadly nature of Gila Monster venom. "Venoms". Public. No. 44, AAAS, First International Conf. on Animal Venoms, pp. 59-63.
 - 60 Bite symptoms in the Red-legged Widow Spider (<u>Latrodectus bishopi</u> Kaston). "Venoms". Publ. No. 44, AAAS, First International Conf. on Animal Venoms, pp. 99-100.

*Sand Dune Biotae Series

- 1957 61 The California-Sonoran-Sinaloan vegetation province. Summary. Proc. 8th Pacific Science Congress, 4: 139-147. Published by the Natl. Research Council of the Philippines, University of the Philippines, Diliman Quezon City.
- 1958 62 *Notes on Coniana snowi, an acridid new to the Utah list. Great Basin Nat. 16(2): 66-67.
- 1959 63 *Notes on the self-burial habits of two Nearctic desert sand dune Acridids (Orthoptera). The Entomologist (London), 92(1156): 185-188, 1 photo.
- 1960 64 *Studies in Nearctic desert sand dune Orthoptera. Part I. A new species of <u>Plagiostira</u> from eastern New Mexico with key and notes. Great Basin Nat. 20(1 & 2): 39-48, 10 text figs.
 - 65 *Studies in Nearctic desert sand dune Orthoptera. Part II. Two new grasshoppers of the genus Trimerotropis from the Utah deserts. Great Basin Nat. 20(3 & 4): 49-58. 1 plate with 6 figs.
- 1961 66 *Studies in Nearctic desert sand dune Orthoptera. Part III. A new species of <u>Cibolacris</u> from northern Chihuahua, Mexico. Great Basin Nat. 31(1 & 2): 29-33, 6 text figs.
 - 67 *Studies in Nearctic desert sand dune Orthoptera. Part IV. A new <u>Trimerotropis</u> from the dunes of eastern New Mexico. Great Basin Nat. 21(3): 51-54, 3 figs.

- 1962 68 *Studies in Nearctic desert sand dune Orthoptera. Part V. A new genus and two new species of Giant Sand Treader Camel Crickets with keys and notes. Great Basin Nat. 22: (1-3): 12-29, 2 pls. with 16 figs.
 - 69 *Studies in Nearctic desert sand dune Orthoptera. Part VI. A new genus and three new species of large Sand Treader Camel Crickets from the Colorado desert with keys and notes. Bull. S. Calif. Acad. Sci. 61(2): 89-111, 4 figs.
 - 70 Notes on the occurrence of Scaphiopus couchi in California. Herpetologica 18(3): 204, 1 photo.
 - 71 *Studies in Nearctic desert sand dune Orthoptera. Part VII. A new dwarf race of <u>Plagiostira</u> gillettei from a Utah dune with generic key. Great Basin Nat. 22(4): 105-107.
 - 72 *Studies in Nearctic desert sand dune Orthoptera. Part VIII. A grasshopper new to the Utah list. Great Basin Nat. 22(4): 108-109.
- 1964 73 *Studies in Nearctic desert sand dune Orthoptera. Part IX. A new <u>Trimerotropis</u> from southern Idaho dunes. Great Basin Nat. 24(1): 31-35, 1 pl. with 4 figs.
- 1965 74 *Studies in Nearctic sand dune Orthoptera. Part X. A new genus and species of Stenopelmatine Crickets from the Kelso Dunes with notes on its multi-annual life history and key. Great Basin Nat. 35(3 & 4): 63-72, 1 pl. with 11 figs.
- 1966 75 *Critical notes on the genus <u>Stenopelmatus</u> Burmeister in California with redescription of <u>S</u>. <u>intermedius</u> Davis and Smith and a key to the species. Proc. Calif. Acad. Sci. Fourth Series, 33(18): 543-550, 6 figs.
- 1968 76 *Studies in Nearctic desert sand dune Orthoptera. Part XI. A new arenicolous species of Stenopelmatus from Coachella Valley with key and biological notes. Great Basin Nat. 28(3): 124-131, 4 figs.
- 1969 77 Notes on the bionomics and distribution of the genus <u>Stenopelmatus</u> in central California with description of a new species (Orth.: Gryllacrididae). Pan-Pacific Entomol. 45(1): 4-14, 4 figs. with 10 illus. (co-authored with David Rentz).
- 1970 78 *Studies in Nearctic desert sand dune Orthoptera. Part XII. A remarkable new genus and species of Stenopelmatine Crickets from the Viscaino Desert, Baja California, Mexico, with key. Great Basin Nat. 30(3): 173-179, 1 pl. with 6 figs.
 - 79 *Studies in Nearctic desert sand dune Orthoptera. Part XIII. A remarkable new genus and species of giant black Sand Treader Camel Crickets from the San Rafael Desert with key and notes. Great Basin Nat. 30(4): 242-249, 1-5 figs.
- 1971 80 Venomous animals and their venoms. Chapter 35: The biology of the Gila Monster. Academic Press, New York and London, pp. 387-413, 9 text figs.
 - 81 Venomous animals and their venoms. Chapter 36: The venom of the Gila Monster. Academic Press, New York and London, pp. 415-422, 5 text figs.

- 1972 82 Nearctic desert Decticidae. Part I. A new genus from California. Great Basin Nat. 33(3): 176-179, 1 pl. with 5 figs.
 - 83 *Studies in Nearctic desert sand dune Orthoptera. Part XIV. A new <u>Eremopodes</u> from the Kelso Dunes. Great Basin Nat. 33(4): 223-228, figs. 3, 2 photos.
- 1973 84 Nearctic desert Decticidae. Part II. A new genus and species from Arizona. Great Basin Nat. 33(1): 43-50, 8 figs.
 - 85 Nearctic desert Decticidae. Part III. The true tympanum in certain genera with key. Great Basin Nat. 33(3): 197-201, 10 figs.

*Mostly Sand Dune Series

- 1974 86 *Notes on <u>Viscainopelmatus davewerneri</u> (Orthoptera: Gryllacrididae: Stenopelmatinae) from the Viscaino Desert, Baja California Sur, Mexico. Great Basin Nat. 34(3): 203-206, 12 figs. 4 photos. (in triauthorship)
- 1975 87 *Studies in Nearctic desert sand dune Orthoptera. Part XV. Eremogeography of <u>Spaniacris</u> with Bioecological Notes. Great Basin Nat. 35(1): 113-120, 1 pl. with 8 photos.
- 1977 88 Occurrence of the Jerusalem Cricket, <u>Stenopelmatus fuscus</u> (Orthoptera: Gryllacrididae), in nest of Owyhee Harvester Ant, <u>Pogonomyrmex owyheei</u> (Hymenoptera: Formicidae), with taxonomic notes on <u>Stenopelmatus</u>. Jour. Acad. Sci. Idaho 13(1): 47-52, 2 photos. (in coauthorship with Wm. H. Clark).
- 1979 89 *Studies in Nearctic desert sand dune Orthoptera. Part XVI. A new black <u>Stenopelmatus</u> from the Mescalero Sands. Great Basin Nat. 39(3): 226-230, 2 photos.

ACKNOWLEDGMENTS

Marion Tinkham generously permitted me to visit the TEM in Indio three times to search for various specimens. P. H. Arnaud, Jr., N. D. Penny, and J. V. Vindum of CAS arranged for the bulk of Tinkham's material to be transported from Indio to CAS for decontamination. I was helped in Indio by D. C. Lightfoot, B. I. Weissman, and S. I. Weissman. Professor Lizhong Hua (ZU), Professor Shia Kailing (SIE), D. A. Nickle (USNM), T. H. Hubbell (UMMZ), V. F. Lee (CAS), and D. Azuma (ANSP) helped to locate types and type data. V. F. Lee helped with an earlier draft.

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Kevan, D. K. McE. 1982. Contribution on "Orthoptera" and "Phasmatoptera" to synopsis and classification of living organisms (S. P. Parker,

ed.). McGraw Hill. New York. 2: 352-383.

Rentz, D. C. F. 1979. Comments on the classification of the orthopteran family Tettigoniidae, with a key to subfamilies and description of two new subfamilies. Austr. J. Zool. 27: 991-1013.

MEMBERS' NEWS

Paul D. Brock: ("Papillon". 40 Thorndike Road, Slough, United Kingdom). Research: studies of Phasmatodea, including species from Ecuador.

Yong-lin Chen: (Institue of Zoology, Academia Sinica, Beijing, Peoples' Republic of China). Research: studies on ecology, eco-geographical distribution of locusts and grasshoppers, IPM.

Andrew Cherrill: (Imperial College, Berkshire, United Kingdom). Research: conservation studies of <u>Decticus</u> <u>verrucivorus</u> (L.) (Tettigoniidae).

<u>C. J. Durden</u>: (Texas Memorial Museum, Austin, Texas, USA). Research: taxonomy of Pennsylvanian and Permian Blattodea and Orthoptera from Texas, New Mexico, Colorado, Kansas, etc.

<u>Vicenta Llorente del Moral</u>: (Entomologia, M. N. C. N., Madrid, Spain). Research: studies on the systematics, ecology, biology, and distribution of Pamphagidae from the Iberian Peninsula.

Barnabas Nagy: (Plant Protection Institute, Budapest, Hungary). Research: eco-faunistics of Hungarian Orthoptera, mainly in the Hungarian National Parks.

Julian Mateos: (Facultad de Biologia, Universidad Complutense de Madrid, Spain). Research: studies on systematics, biogeography, and communication in Orthoptera of central Spain; designing instruments and computer tools related to entomological studies.

<u>Maria Victoria Peinado</u>: (Facultad de Biologia, Universidad Complutense de Madrid, Spain). Research: systematics, biogeography, and communication in ensiferan Orthoptera of Spain.

<u>Seiroku Sakai</u>: (Institute of Biology and Life Sciences, Daito Bunka University, Tokyo, Japan). Research: compiling data for vols. XXI, Labiduridae, and XXII, Spongiphoridae, of Dermapterorum-Catalogus-Iconographia.

Germany). Schmidt: (Brakenweg 5, D-3057 Neustadt 1, Federal Republic of Research: faunistics and systematics in Orthoptera; using Acrididae for ecotoxicological evaluation of chemicals in the soil; effect of male pheromones in egg production of females of Aiolopus thalassinus (F.).

Ganpati Parshad Sharma: (Prof. Emeritus, Dept. of Zoology, Punjab University, Chandigarh, India). Research: continuing studies on insect cytogenetics. Delivered the Platinum Jubilee Lecture in the Platinum Jubilee session of the Indian Science Congress held at Pune in January, 1988.

<u>Walt Valovage</u>: (Dept. of Entomology, North Dakota State University, Fargo, ND, USA). Research: studies on <u>Entomophaga grylli</u>, a fungal pathogen of grasshoppers.

<u>Esther Viseras:</u> (Dpto. Biologia, Animal, Ecologia, y Genetica, Universidad de Granada, Spain). Research: cytogenetics of Orthoptera.

Robert B. Willey: (University of Chicago, IL, USA). Research: information concerning mixed red-winged/yellow-winged, Arphia pseudonietana, including localities, proportions, etc. Received jointly with Ruth L. Willey the Nature Conservancy President's Stewardship Award (1988), for activities in the acquisition and maintenance of the Mexican Cut-Galena Mountain Research Natural Area (Colorado).

NEW MEMBERS

New Members as of III/23/89:

Dr. Jose L. Bella* School of Biological Science University of East Anglia Norwich NR4 7TK UNITED KINGDOM

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Mr. Jos Michiel Tilmans Kloosterwei 6 2361 XL Warmond NETHERLANDS

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Herr Ulrich Ziegler Insektensuchten Durerstr. 12 1000 Berlin 45 FEDERAL REPUBLIC OF GERMANY

New Member as of XII/19/89:

Srta. Maria Lourdes Pulido* Escuela Universitaria Politecnica Albacete 02071 SPAIN

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Charles MacVean Aptdo. 82 Universidad del Valle Guatemala City GUATEMALA

5TH INTERNATIONAL MEETING OF THE ORTHOPTERISTS' SOCIETY, VALSAIN (SEGOVIA), SPAIN JULY 17-21, 1989

Final Announcement

The 5th International Meeting of the Orthopterists' Society is scheduled for July 17-21, 1989, at the local headquarters of the Instituto Nacional para la Conservacion de Naturaleza (ICONA), Valsain (Segovia), near Madrid, Spain. This superb new governmental installation, with state-of-the-art facilities and accommodations, appears ideal for the Society's meeting. And, orthopterologically speaking, Spain itself is ideal both because of its large numbers of endemic species and interesting mixture of faunal elements and because it is a kind of "bridge" between Europe and Africa and the New World and the Old. What better location for the Society's first meeting outside of the Americas?

Lodging will be at the ICONA facility, Valsain, or in nearby Segovia or Madrid (10 km and 70 km, respectively, from Valsain). Meals will be served in the ICONA restaurant and may be taken also in the local area. Costs should be modest. Camping will not be possible in the immediate area, but arrangements are underway for minimal-cost facilities in adjacent La Granja.

Weather. The 5th International Meeting is scheduled for summer. Weather in Madrid will be hot (perhaps oppressively so), but it should be sunny, cool, and pleasant in Valsain, in the Central Range of the Guadarrama Mountains. There is little likelihood of rain.

Organizing Committee. The Organizing Committee for the 5th International Meeting of the Orthopterists' Society includes:

Arrangements Chairperson E. Morales Agacino, of Madrid, Spain;

Arrangements Staffpersons D. Cadahia, J. Gosalvez, and V. Llorente, all of Madrid, J. J. Presa, of Murcia, Spain, and others to be appointed;

Organizational Committee Chairperson and Society Executive Secretary S. K. Gangwere, of Detroit, USA; and

Society President V. R. Vickery, of Ste. Anne de Bellevue, Canada.

International Transportation. Madrid, the capital city of Spain, is served by many airlines and an extensive system of railways and highways. Conference delegates arriving at Barajas Airport or Atocha Train Station will receive instructions concerning their travel to Conference Headquarters at Valsain. Those arriving by car should proceed directly to Valsain. Details will be announced later.

Registrational and Other Fees. Conference registration will be by mail, in advance, through the Secretariat in Detroit, or personally upon arrival at Conference Headquarters at Valsain. A registration fee of \$100 (US currency) has been set for Regular Members and one of \$25 for Student Members if paid at

least three (3) months in advance of the meeting. (These monies are refundable in full upon official withdrawal within six (6) weeks of the meeting.) Registration later than the above or at the meeting itself is possible at a perperson charge of \$150 (Regular Members) or \$40 (Student Members), on a non-refundable basis. Scholarship (gratis) registration may be arranged for students and others unable to provide the registration fee. Family members of delegates may register gratis.

All additional charges (lodging, meals, Society banquet, local transportation) will be on an at-cost basis, the greater the number of registrants, the lesser the per-person cost. Total meeting costs (excluding page charges, discussed below) should be modest for an international meeting.

Official Letter of Invitation. An official, personal letter of invitation to attend the 5th International Meeting will be sent prospective participants on written request to the Secretariat. This invitation does not obligate the Society in any way to pay for travel, subsistence, or other expenses that participants may incur at the meeting.

Tentative Program. The tentative four-day program of the 5th International Meeting of the Orthopterists' Society will include the following activities:

- 1) Registration and opening-day reception and mixer;
- Four sections of submitted papers (control, evolution & systematics, physiology & genetics, ecology & behavior) on locusts, grasshoppers, and their allies; workshop on locust management;
 - 3) A full-day field trip within the environs of Valsain;
 - 4) Business meeting; and

FOT

5) Banquet and closing ceremony.

In addition, planning is underway for an optional 4-day post-conference field trip for those who wish to avail themselves of an exceptional collecting opportunity.

Official Languages. English, Spanish, and French are the official languages of the 5th International Meeting of the Orthopterists' Society. Simultaneous translation services are expected to be available. Papers read in other standard languages must include an abstract/resume in one or more of the official languages and may not be submitted for full publication.

Publication. Publication will be in the 5th Proceedings of the Orthopterists' Society. All contributed papers will be considered for publication in their entirety at the author/authors' expense. All must include an abstract/resume in one or more of the official languages (English, Spanish, or French). Inasmuch as all abstracts are published (whether or not the full text is published), they must be received at the Secretariat at least six (6) weeks prior to the conference opening. All papers submitted for publication in their entirety must be turned over to the Meeting Organizer (Gangwere) or to the Society Editor (Nickle) on the day they are read. They must comply in format with the Society's editorial standards, as published elsewhere. All are expected

to be original contributions (i. e., not previously published elsewhere), and all will be reviewed/refereed by a panel of experts chosen by the Society's Publications Committee.

If abstracts cannot be provided within the prescribed time limits (i. e., 6 weeks prior to the meeting), the research may still be considered for inclusion in the program on a read-in-title basis. Read-in-title contributions may be considered for publication in full if the text is made available to the Organizer or Editor at the time of presentation.

There will be a \$10 (US currency) per-page charge for all papers published in their entirety and for each page of abstract. This charge covers the editorial process, administrative handling, printing, and mailing of 100 free reprints. Additional numbers of reprints may be ordered at authors' option and expense. Scholarship (gratis) publication may be possible if the Society receives a governmental subsidy.

Post-Conference Field Trip. J. J. Presa, of the Universidad de Murcia, is organizing a 4-day post-conference field trip through parts of the orthopterologically rich Sierras de Cazorla and Segura of southern Spain. Participants' food, lodging, and transportation will be on an at-cost, relatively inexpensive basis. Inasmuch as accommodations are limited, registration should be made at least six (6) weeks in advance of the conference. A non-refundable payment of \$25 (US currency) is required of each participant, to be applied to his/her total field trip cost.

Accompanying Persons' Program. Family members are encouraged to attend the 5th International Meeting of the Orthopterists' Society. An Accompanying Persons' Program is being arranged under the direction of V. Llorente, of the Museo de Ciencias Naturales, Madrid, and her committee. Sight-seeing visits to various historical and other interesting places are being explored. Costs of these half-day or full-day trips are payable at registration on an at-cost basis. Again, as with other costs, they are expected to be modest.

S. K. Gangwere Organizer

5TH INTERNATIONAL MEETING OF THE ORTHOPTERISTS' SOCIETY AT VALSAIN (SEGOVIA), SPAIN IN JULY, 1989

Registration Form

Name:				4
Surname/name		Given name		Initial
Sex: Female	Telephone/s:	mexidis.		
Institution (if any):				
Mailing address:				
Accompanying family: _				
5 162	Name		Re	elationship
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Do you wish this paper its/their entirety?	Abstract only	Full		m only or in
Do you wish to particip	ate in the follow	ing?		
Banquet	Sight-seeing v	isits Post	-conference	trip

[Kindly complete the above form and return it to S. K. Gangwere, Executive Secretary, Orthopterists' Society, c/o Department of Biological Sciences, Wayne State University, Detroit, MI 48202, USA, along with the proper registration fee (\$100 Active Members or \$25 Student Members)]

INFORMATION FOR PREPARATION OF MANUSCRIPIS FOR 5TH PROCEEDINGS OF THE ORTHOPTERISTS' SOCIETY

These guidelines should be followed in order to facilitate prompt publication of our next Proceedings. PLEASE READ CAREFULLY.

TYPING THE MANUSCRIPT

- 1. All manuscripts should be on 8 1/2 x 11" bond (xerox weight) paper. Tissue paper and light weight paper will not be accepted [The reason for this is that all manuscripts will be incorporated into our computer system via an optical scanner, which does not accept light weight papers].
- 2. All manuscripts must be typewritten, with letter fonts that are solid. Dot matrix letters (the kind available from some desktop PCs) are not acceptable. [The reason for this is that the optical scanner cannot read it. For example, the following phrase, if printed with dot matrix lettering, would be turned into the following manuscript: "...between typical grasshoppers..." might read "...prtwrrn fybjc@1 gr@ssbebbrrs..." an editor's nightmare!].
- 3. Each page should have a free margin of space of 1 inch around each side.
- 4. Manuscripts must be double-spaced. Tables must be double spaced, unless they are being submitted as a Figure to be appropriately reduced.
- 5. Underscore only where italic type is intended in the body of the text. DO NOT USE an italic font in place of underscoring. [The reason for this again is that the optical scanner cannot read it].
- 6. Type ON SEPARATE PAGES the title page, abstract, manuscript itself, literature cited, footnotes, tables, and figure legends. See Figs. 1-4 for proper format of these pages.

NAMES OF ORGANISMS

The first mention of a plant or animal should include the full scientific name with the author, all unabbreviated. Do not abbreviate a generic name when it begins a sentence.

ILLUSTRATIONS

1. Authors should plan illustrations for reductions to the dimensions of the printed page and should allow room for figure legends at the top and bottom. Printed page size: $4\ 1/4\ x\ 6\ 1/2$ ".

Return Proof to: John R. Doe 315 State St. Meriden, CT 06420 (203) 555-1212 A new species of Xus (Order: Family) injurious to hollies, Ilex spp. (Aquifoliaceae) John R. Doe and John Smith (JRD) Resident Biologist, 315 State St., Meriden, Connecticut 06420; (JS) Entomologist, City Parks, Hartford, Connecticut 06540. Abstract .- Xus albus, a new species of ... is described, illustrated, and compared with ... Figure Legends Figs. 1-4. Mus albus. 1. Habitus. 2. Male genitalia (lateral view). 3. Larva. 4. Pupa. fig. 5. Damage to holly leaves. Literature Cited Ooe, J. and J. Smith. 1970. Holly Insects. Jones and Case. New York, MY. 35pp. Smith, J. and J. R. Doe. 1967. A list of insects injurious to hollies (Ilex spp.). Proc. Entomol. Soc. Va. 38: 54-68. (The above citations are fictitious.)

Figs. 1-4. Sample pages for submitted manuscripts. 1, Title page. The mailing address and phone number of the person(s) to whom the page proofs will be sent should be typed in the upper left hand corner. A proof can be sent to each author of a two- or multi-authored paper if they desire. Affiliation and full address are typed as a paragraph below the author name(s). Spell out the state name. 2, Abstract page. Note that "Abstract" begins the paragraph. 3, Figure legend page. Note punctuation. Start a new paragraph for legends describing each plate. 4, Literature Cited page. Note punctation and spacing. Authors with access to Serial Sources for the Biosis Data Base that is provided with Biological Abstracts are expected to use its journal title abbreviations.

- 2. Do not make plates larger than 14 x 18".
- 3. Photographs should be on glossy paper.
- 4. Individual figures must be mounted on suitable board, and photographs should be trimmed, grouped together, and abutted when mounted; the printer will insert the hairlines.
 - 5. Arrange figures to use space efficiently.
- 6. Include title of paper, author's name and address, and illustration number ON BACK OF EACH PLATE.
 - 7. Figures should be numbered consecutively.
- 8. A limited number of color photographs may be possible if the Editor is notified immediately of the need. Anyone interested in submitting colored plates MUST NOTIFY THE EDITOR BY MAY 1, 1989. The Editor reserves the right to deny such requests if monies are not available for such figures.

SUBMITTIAL OF THE MANUSCRIPT

Submit the original manuscript and two copies (xerox preferred)
to:

David A. Nickle, Editor,

Systematic Entomology Laboratory, USDA,

c/o US National Museum of Natural History

Smithsonian Institution, NHB-168 Washington, DC 20560 USA

Deadline for submission: it is requested that the Editor receive the final copy of the manuscript BEFORE the meeting, but submission at the Meeting is acceptable. The FINAL DEADLINE for submission is July 30, 1989. Papers received after this date will not be published in the Proceedings.

REVIEW PROCESS

Each paper will be submitted to two reviewers for accuracy, proper word useage, etc. The paper will be returned to the author for corrections. Reviewers will be on hand at the Meeting in order to shorten 'turn around time' for the manuscripts.

The Editor requests that all papers be reviewed PRIOR to submission by at least two knowledgeable colleagues for accuracy, etc. A list of all individuals who have reviewed the manuscript prior to submission should be submitted with the manuscript.

GALLEY PROOFS

At this point in time, it is not clear if galley proof will be available to send to each author. Hopefully it will. If so, the Editor stresses the need for quick return of corrected galley to ensure rapid publication of the Proceedings. Everyone depends upon this.

CHARGES

- Page charges will be kept to an absolute minimum. Presently
 we anticipate no page charges at all, but this may change within the
 next five months.
- 2. There may be a flat charge for binding the Proceedings in hard cover.
- 3. Reprint charges. There may be a charge to authors requiring more than 50 reprints.
- 4. Authors will be charged for return of illustrations at a cost of the mailing itself.

5th. INTERNATIONAL MEETING OF THE ORTHOPTERISTS' SOCIETY VALSAIN (SEGOVIA), SPAIN JULY, 17 - 20, 1989

First name:		
Arrival:	Departure	Y
	accomodation reservation comodation choices in or	
Accomodation	Single Room	Double/Twin-room
Hotel Los Linajes	□ 5,000 pts	□ 8,000 pts
Hotel Los Arcos	□ 5,000 pts	□ 8,000 pts
Hotel Los Arcos Hotel El Acueducto	□ 5,000 pts	□ 8,000 pts □ 8,000 pts
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Return this form before May 15, 1989 to:

All hotels, excepting Hostal Roma which is located in La Granja 10Km. from Segovia,

are situated in the center of Segovia.

Carmen López Fernández
Dpto. de Biología (Unidad de Genética)
Facultad de Ciencias, C-15.
Universidad Autónoma de Madrid,
28049 MADRID - SPAIN.

A NOTE FROM THE PRESIDENT

Our Executive Secretary, Dr. Stanley K. Gangwere, and I met in Detroit a short time ago to make up the tentative program for our meeting in Valsain, Spain in July. At that time we had received notice of registration from 58 active participants, together with 13 dependents. Very few of these had sent registration fees, and I therefore urge everyone participating to send the fees as soon as possible. We need to know how much money will be available to set up facilities and arrangements for the meeting.

To date twenty delegates accompanied by nine dependents have indicated that they wish to take advantage of the post-conference field trip. I have signed up for the trip and will be accompanied by my wife, Muriel.

Dr. Gangwere and I have set up a Tentative Program, and, in case this program will not accommodate all of the papers to be presented, an Alternate Program that we feel will allow time for everyone. In addition to the four main theme sessions, as outlined in the last issue of Metaleptea, we anticipate having a workshop session on current locust problems.

Dr. Gangwere will go to Spain in April to consult with our Spanish colleagues on final arrangements for the meeting.

You have probably read the details on the Orthopterists' Field Guide in <u>Metaleptea</u>. There is little additional information to report. I hope some of you will volunteer to write the papers that so far have no authors. I expect to have some of the published papers in the series at the Valsain meeting.

We intend to push on with our training program as soon as possible.

V. R. Vickery President, Orthopterists' Society

NOTICE

Members needing additional copies of past Pan American Acridological Society or Orthopterists' Society publications (Metaleptea, Proceedings, Occasional Papers) and new members having current publications but not past ones are reminded that a small number of virtually all volumes and numbers is on hand at the Secretariat. Prices (in US currency) are as follows: Metaleptea \$1.50 per number or \$3.00 per volume consisting of 2 numbers; Proceedings \$10.00 per volume; and Occasional Papers \$4.40. Please advise of the volumes and numbers desired and send remittance to: Prof. S. K. Gangwere, Executive Secretary, Orthopterists' Society, c/o Department of Biological Sciences, Wayne State University, Detroit, MI 48202, USA. Orders may also be placed by invoice; simply asked to be billed.

ERRATUM

The last issue of <u>Metaleptea</u> included a list of papers and authors in the Society's Field Guide Project. There was an error in paper 8 of Section C. The authors of this paper on <u>Zonocerus variegatus</u> (L.) should read: Joelle Chiffaud and Jacques Mestre.

V. R. Vickery Project Coordinator