

BIBLIOGRAPHIA ACRIDIDIORUM

A BIBLIOGRAPHY OF THE ORTHOPTEROUS INSECTS OF THE FAMILY ACRIDIDAE
(COMPRISING THE SHORT-HORNED GRASSHOPPERS AND LOCUSTS) FROM THE
EARLIEST TIMES TO THE END OF 1954 (WITH SOME ADDITIONS FOR 1955-57)

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(With one Table, one Text-figure and one Plate)

CONTENTS

	PAGE
I—INTRODUCTION	2
1. General	2
2. Acknowledgements	2
3. Classification of short-horned grasshoppers, and problems of nomenclature	3
4. Some general remarks on the family Acrididae	7
5. Historical account of works on the Acrididae	9
6. Arrangement of the Bibliography	11
7. Scope and completeness of the Bibliography	13
8. Some analyses of the Bibliography	14
II—SUMMARY	17
III—BIBLIOGRAPHY	18
IV—AUTHOR INDEX	497
V—SUBJECT INDEX	533
VI—FIRST SUPPLEMENT TO BIBLIOGRAPHIA ACRIDIDIORUM	551
1. Introduction (1st Supplement)	551
2. List of References (1st Supplement)	552
3. Author Index (1st Supplement)	585
4. Subject Index (1st Supplement)	589
VII—SECOND SUPPLEMENT TO BIBLIOGRAPHIA ACRIDIDIORUM	591
1. Introduction (2nd Supplement)	591
2. List of References (2nd Supplement)	592
3. Author Index (2nd Supplement)	607
4. Subject Index (2nd Supplement)	610

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I—INTRODUCTION

1. *General*

The group of Orthopterous insects known as short-horned grasshoppers constitute the family Acrididae which, by certain authorities, is raised to superfamily rank. For convenience, for the purpose of this bibliography, we will refer the entire group to the "family Acrididae" (*vide* further discussion below under Classification, etc., p. 3).

The family Acrididae (which includes the locusts) is a group of primarily terrestrial insects distributed practically all over the land-surface of the earth except the extreme subpolar regions of the Arctic and the Antarctic Circles (Pl. 1). A few forms are semi-aquatic in freshwaters. Several members of the family periodically increase enormously in numbers so as to cause plagues (Pl. 1) during which the vegetation of the areas concerned suffers serious depredation, being eaten up by the hordes. The family has always formed a favourite subject for scientific observations and investigations both by the older naturalists (because of the spectacular locust swarms) and by modern zoologists. The insects are large, easy to procure and rear in moderate and even large numbers, and belong to a comparatively unspecialized order of the Pterygote group. They consequently provide favourite material for the study of varied biological problems in regard to morphology, ecology, embryology, cytology, physiology, zoogeography, taxonomy and evolution. The migratory members (locusts) of the family exhibit the curious and biologically very interesting phenomenon known as the "phases" in which populations living under crowded conditions show morphological, physiological, colour and behaviouristic differences from individuals living under relatively less crowded or solitary conditions. In addition, locusts and grasshoppers are of great economic importance as serious pests of crops, especially the family Gramineae (grasses), locusts being the classical dread of the agriculturist from ancient times. Recently damage by locusts throughout the world has been estimated at Rupees 400,000,000 each year. All these factors have combined to stimulate research on the family so that over 200 papers are now published every year, and the total number of references published so far (up to the end of 1954) is slightly over 7,300. It is clear that in the normal course it is difficult, even for favourably placed research workers, whether pure or economic zoologists, to get to know of the existence of even a fraction of these numerous references mainly because of the wide variety of places and periodicals where, and the languages in which, they are published. The need for a comprehensive bibliography has, therefore, been widely felt, and the present publication is designed to fulfil that need both for the economic zoologist and the pure researcher.

Since the completion of the Main Bibliography, some more references have come to my attention and have been included in two Supplementary Bibliographies at the end.

2. *Acknowledgements*

The compilation of this Bibliography was begun by me some twenty-five years ago and by about 1948, the bulk of it, complete up to the end of that year, was ready in manuscript form. During the years 1952-53,

Dr. Surendra Deo Misra, of the Zoology Department, Saugar University, Saugar (Madhya Pradesh), kindly volunteered assistance and helped in bringing the Bibliography up-to-date and also in typing out and re-arranging portions of the first few alphabets (A-H). In 1955, the Government of India sanctioned some staff under a "Co-ordinated Locust Research Scheme" to assist me in completing the Bibliography and in making it press-ready. The staff was to be administratively on the strength of the Plant Protection Adviser to the Government of India, Ministry of Agriculture, New Delhi, but was to work technically under me at the Forest Research Institute, Dehra Dun. Under this arrangement were appointed Shri Sanat Kumar Chatterjee, M. Sc., as Research Assistant, and Kumari Swaran Lata Chawla as Typist; they joined duty at Dehra Dun in the later part of 1955 and rendered considerable help. Kumari Chawla left the Scheme in July, 1956 and Shri Chatterjee in August, 1956. Shri R. K. Bhanotar, M. Sc., joined the Scheme as Research Assistant in May, 1956 at Dehra Dun, and helped in the preparation of a portion of the Subject Index and the Supplementary Bibliographies. In addition, much assistance has also been received from my Technical Assistant, Shri Kishori Lal. To all these Assistants I would like to record my thanks. On my transfer to Calcutta in July, 1956, the Scheme was transferred to me here in January, 1957.

During the long period of years while this Bibliography has been under preparation, many fellow zoologists all over the world have helped generously either by sending reprints, by clarifying crucial points regarding the various references, or in other ways, and it is a pleasure to acknowledge my sincere thanks to them.

3. *Classification of short-horned grasshoppers, and problems of nomenclature*

(a) *Classification of short-horned grasshoppers—*

The short-horned grasshoppers, which were formerly grouped under a single family Acrididae (with a number of subfamilies) of the order Orthoptera, are now classified into several families under a single superfamily, Acridoidea, thus :—

Superfamily *Acridoidea*.

Family 1. ACRIDIDAE.

(With subfamilies Acridinae, Batrachotetrigenae, Crytanthacridinae, Oedipodinae, Ommexechinae, Pamphaginae, Pauliniinae, Pyrgomorphinae, Romaleinae and Thrincinae.)

Family 2. EUMASTICIDAE.

Family 3. PROSCOPIIDAE.

Family 4. TETRIGIDAE (= ACRYDIDAE).

Family 5. TRIDACTYLIDAE (including CYLINDRACHAETIDAE).

There exist, however, alternative classifications. Among the latest is that by Chopard (1949, in Grassé's *Traité de Zoologie*, 9, pp. 674-713, Paris), who has adopted the following classification of the short-horned grasshoppers, with 2 superfamilies and 12 families :—

Suborder CAELIFERA

Superfamily (i) *Tridactyloidea*.

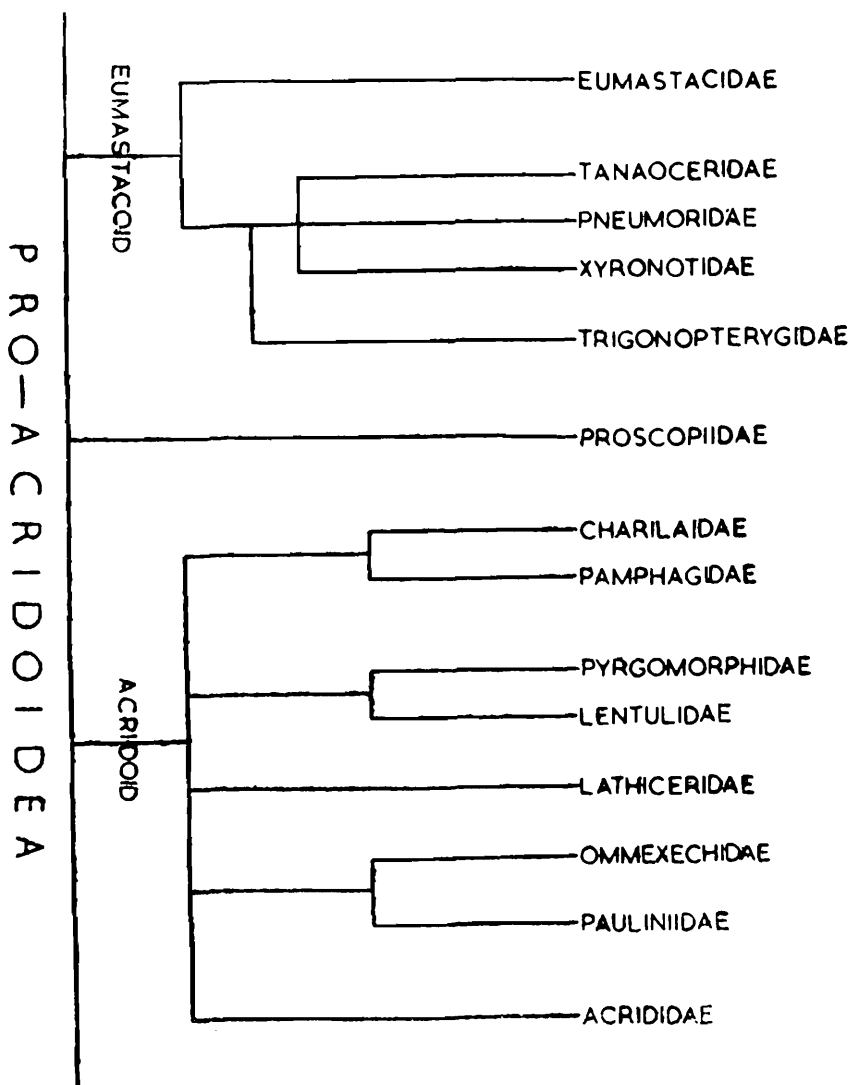
Family 1. TRIDACTYLIDAE.

„ 2. CYLINDRACHAETIDAE.

Superfamily (ii) *Acridoidea*.

- Family 1. TETRIGIDAE (= ACRYDIIDAE).
 „ 2. PNEUMORIDAE.
 „ 3. EUMASTICIDAE.
 „ 4. PROSCOPIIDAE.
 „ 5. PYRGOMORPHIDAE.
 „ 6. PAMPHAGIDAE.
 „ 7. OMMEXECHIDAE.
 „ 8. ROMALEIDAE.
 „ 9. CATANTOPIDAE.
 „ 10. ACRIDIDAE (with subfamilies Acridinae and Oedipodinae).

Dirsh (*Trans. R. ent. Soc. Lond.*, 108 (7), pp. 223-356, 1956) has, on the basis of the structure of the phallic complex, recognized 14 families of the suborder Acridoidea which are listed below ; the family Tetrigidae, formerly included in that suborder, has been raised by him to the rank of a distinct suborder, Tetrigoidea. Dirsh considers the ancestral group Pro-Acridoidea to have given rise to three independent branches, viz., the Eumastacoid (with 5 families), the Proscopiid (with a single family) and the Acridoid (with 8 families), as is illustrated in Text-fig. 1.



TEXT-FIG. 1.—A phylogenetic scheme of the Acridoidea. (After Dirsh, 1956.)

Suborder *ACRIDOIDEA*

- Fam. 1. EUMASTACIDAE.*
 Fam. 2. TANAOCERIDAE. (See foot-note under Eumastacidae).
 Fam. 3. PNEUMORIDAE.
 Fam. 4. XYRONOTIDAE.
 Fam. 5. TRIGONOPTERYGIDAE.
 Fam. 6. PROSCOPIIDAE.
 Fam. 7. CHARILAIIDAE.
 Fam. 8. PAMPHAGIDAE.
 Fam. 9. PYRGOMORPHIDAE.
 Fam. 10. LENTULIDAE fam. nov. (Dirsh, 1956).
 Fam. 11. LATHICERIDAE.
 Fam. 12. OMMEXECHIDAE.
 Fam. 13. PAULINIIDAE.
 Fam. 14. ACRIDIDAE.
 Subfam. (i) *Romaleinae*.
 ,, (ii) *Catantopinae*.
 ,, (iii) *Calliptaminae*.
 ,, (iv) *Euryphyminae*.
 ,, (v) *Hemiacridinae* subfam. nov. (Dirsh, 1956.)
 ,, (vi) *Acridinae*.
 ,, (vii) *Egnatiinae*.
 ,, (viii) *Eremogryllinae* subfam. nov. (Dirsh, 1956.)
 ,, (ix) *Truxalinae*.

(b) *Problems of nomenclature, etc.—*

One of the objects of this Bibliography is to assist the economic zoologists and the field workers on locusts and grasshoppers who have no access to large libraries. Frequent changes of the scientific names of the various economic species, especially the migratory and the widely spread species, present serious problems and cause confusion. To take an example : The Desert Locust, *Schistocerca gregaria* (Forsk.) has been variously known in the literature also as *Acridium peregrinum* Olive., *Acridium tatarica* (of various authors, not Linné), and *Gryllus gregarius* Forskal. The various common names adopted for this species in the scientific literature are : the Migratory Locust, the North-West Locust (India), criquet pelèrin, criquet migrateur (rarely), etc. Much of this confusion has been cleared up by Uvarov in his book *Locusts and Grasshoppers* (1928). To facilitate the task of the field worker, I give below the current and valid scientific names of the more important species of locusts and grasshoppers (*i.e.*, species on which there is considerable literature), together with the first name and the original reference ; the common names are also appended. For fuller synonymies, Kirby's (1910, *A Synonymic Catalogue of the Orthoptera*, Vol. III) and Uvarov (1923 and 1928) should be consulted for world forms ; for Indian species, Kirby's (1914) volume on the Orthoptera ; Acrididae (in the *Fauna of British India* series) though rather out of date,

*Rehn (1948, *Proc. Acad. nat. Sci., Philadelphia*, 100, pp. 77-139), recognised 17 subfamilies of the family Eumastacidae. Of these the subfamily Tanæocerinae was raised to family rank by Dirsh (1955, *Ann. Mag. nat. Hist.*, London, (12) 8, pp. 285-288)

will still be found useful. In several cases, the migratory and solitary phases (phases *gregaria* and *solitaria* respectively) have been known under different names.

List of names of some locusts and grasshoppers, with references and type-localities

1. *Anacridium aegyptium* (Linné 1764). Egyptian Grasshopper.
Gryllus (Locusta) aegyptius, Linné, *Mus. Lud. Utr.*, p. 131 (Egypt). For additional synonymy, see Uvarov, *Ann. Mag. nat. Hist.*, London, (9) 11, p. 487.
2. *Anacridium moestum* (Servilié 1839). Tree Locust.
Anacridium moestum, Serville *Ins. Orth.*, p. 654 (Pays de Mossilikatse=Southern Rhodesia, Africa).
3. *Austroicetes cruciata* (Saussure, 1888). Small or Australian Plague Grasshopper.
Ditopternis cruciata, Saussure, *Mem. Soc. Phys. Genève*, 30, p. 45 (Australia).
4. *Chortoicetes terminifera* (Walker 1870). Australian Plague Locust. ("Wandering Grasshopper" of Uvarov).
Epacromia terminifera, Walker, *Cat. Derm. Salt. Brit. Mus.*, 4, p. 777 (Swan River Australia).
5. *Caliptamus italicus* (Linné 1758). Italian Locust.
Gryllus (Locusta) italicus, Linné *Syst. Nat.* (ed. 10), 1, p. 432 (Italy).
6. *Dociostaurus maroccanus* (Thunberg 1815). Moroccan Locust.
Gryllus maroccanus, Thunberg, *Mem. Acad. St. Petersb.*, 5, p. 244 (N. Africa).
Phase *gregaria*=*maroccanus* Thunb.
Phase *solitaria*=*degeneratus* Brnov.
7. *Locusta migratoria* (Linné 1758). Migratory Locust.
Gryllus (Locusta) migratorius, Linné, *Syst. Nat.* (ed. 10), 1, p. 432 (Europe).
Phase *gregaria*=*migratoria*. L.
Phase *solitaria*=*danic* ? L.
Several geographical subspecies occur as follows :—
 - 7a. *L. m. migratoria* Linné 1758.
As above.
 - 7b. *L. m. migratorioides* (Reiche & Fairmaire 1847).
Oedipoda migratorioides, Reiche & Fairmaire in : Ferrier & Galinier, *Voyage Abyss.*, 3, p. 430 (Abyssinia).
 - 7c. *L. m. capito* (Saussure 1884).
Pachytylus migratorioides var. *capito*, Saussure. *Mem. Soc. Phys. Genève*, 27, p. 119 (Madagascar).
 - 7d. *L. m. manilensis* (Meyen 1835).
Acrydium manilense, Meyen, *Reiseum die Erde*, 2, p. 197 (Manila). For synonymy, see Uvarov, *Bull. ent. Res.*, 27, 1936, p. 92.
 - 7e. *L. m. rossica* Uvarov & Zolotarevsky 1929.
Idem., *Bull. ent. Res.*, 20, 1929, p. 263 (Central Russia).
 - 7f. *L. m. gallica* Remaudière 1947.
Idem., *C. R. Acad. Sci. Paris*, 225, p. 1025 (W. France).
8. *Locustana pardalina* (Walker 1870). Brown Locust.
Pachytylus pardalinus, Walker, *Cat. Derm. Salt. Brit. Mus.*, 4, p. 725 (Interior of South Africa).
9. *Melanoplus differentialis* (Thomas 1865). Differential Grasshopper.
Acridium differentiale, Thomas, *Trans. Illin. State. Agric. Soc.*, 5, p. 450 (U.S.A.).
10. *Melanoplus femur-rubrum* (De Geer 1773). Red-legged Grasshopper.
Acrydium femur-rubrum, De Geer, *Mem. Ins.*, 3, p. 498 (N. America).

11. *Melanoplus mexicanus* (Saussure 1861). Rocky Mountain-Locust.
Pezoreux mexicana, Saussure, *Rev. Zool.*, (2) 13, p. 160 (Mexico).
 Synonyms :
Acridium spretus Thomas, 1865, *Trans. Illin. State Agric. Soc.*, 5,
 p. 450 (U.S.A.). (=phase gregaria.)
Caloptenus atlantis Riley, 1876, *Rep. Ins. Missouri*, 7, p. 169 (Missouri,
 U.S.A.). (=phase solitaria.)
12. *Nomadacris septemfasciata* (Serville 1839). Red Locust.
Acridium septemfasciata, Serville, *Ins. Orth.*, p. 661, (Cape de Bonne Esperance).
 For synonymy, see Uvarov, *Ann. Mag. nat. Hist.*, London, (9) 13, 1924, p. 7.
 Phase gregaria=*septemfasciata* Serv.
 Phase solitaria=*coangustata* Luc.
13. *Patanga succincta* (Linné 1763). Bombay Locust.
Gryllus (*Locusta*) *succinctus*, Linné, *Amoen. Acad.*, 6, p. 398 (India).
 For synonymy, see Uvarov, *Ann. Mag. nat. Hist.*, London, (9) 12, 1923,
 n. 365.
14. *Schistocerca gregaria* (Forsk. 1775).
Gryllus gregarius, Forskal, *Descr. anim. quae in itin. orient. observavit*, 1779,
 p. 81 (Cairo, Egypt, 23 Dec., 1761, swarms).
 For fuller synonymy, see Uvarov, *Bull. ent. Res.*, London, 14, p. 31.
 Phase gregaria=*gregaria* Forsk.
 Phase solitaria=*flaviventris* Burm.
15. *Schistocerca paranensis* (Burmeister 1861). South American Locust.
Acridium paranense, Burmeister, *Reise La Plata Staaten*, 1, p. 491 (La Plata,
 S. America).
 Phase gregaria=*paranensis* Burm.
 Phase solitaria=?*americana* F.

Those not familiar with modern classification often confuse the Orthopteran family name Locustidae (=Tettigonidae), containing the long-horned grasshoppers, and the suborder and superfamily names Locustoidea and Locustodea (containing the families Grylloblattidae, Locustidae, Gryllacridae, Stenopelmatidae, Schizodactylidae, Gryllidae and Gryllotalpidae) with the Acrididae, Acridodea, etc. (containing the short-horned grasshoppers). This confusion is accentuated by the fact that the generic name *Locusta* belongs to the family Acrididae and not to the Tettigonidae. The following names which often occur in the literature on grasshoppers belong to the family Tettigonidae :—*Decticus verrucivorus* Linn., *Locusta virridissima* Linn., *Meconema varium* Fabr., *Saga ephippigera* Fisch. and *Saga gracilipes* Uvar.

4. Some general remarks on the family Acrididae

The family Acrididae is practically world wide in distribution, ranging from the extremely cold Arctic and Antarctic regions to the temperate and tropical areas. Its members inhabit a wide variety of places such as snowfields, hot, humid, tropical forests, dry sandy deserts and high mountain slopes. A few species are semi-aquatic and are able to swim, though rather weakly. No species is domesticated (*i.e.*, occurs habitually in human dwellings). The family is of great importance to agriculture and forestry as its representatives are phytophagous and include the voracious locusts which, owing to their periodic epidemic mass-multi-

plication and migrations over enormous distances, constitute an international problem as regards their control. It is partly because of this great economic importance that a vast amount of scientific literature has been published on the family.

Locusts have figured, often prominently, in religious and literary works in the past and continue to do so at present. Thus, in the Bible—in both the *Old* and the *New Testaments*—there are many references to locusts in Egypt, Palestine and the adjoining countries. It is stated, for example, how they come in large numbers, eating everything and darkening the face of the earth; and again, that Moses for a time fed exclusively on locusts and honey. The species, however, cannot be identified with certainty from the descriptions and might be either *Schistocerca gregaria* or *Doclostaurus maroccanus*, the two species now commonly occurring in those parts. The locusts in “Exodus” (in the *Old Testament*, 2nd century A.D.), however, were probably *Schistocerca gregaria* since they plagued Egypt and were subsequently driven into the Red Sea.

The following is a vivid description of locust swarms taken from “Exodus” :—

“4 Else, if thou refuse to let my people go, behold, to-morrow will I bring locusts into thy border :’ 5 And they shall cover the face of the earth, that one shall not be able to see the earth : and they... shall eat every tree which groweth for you out of the field : 6 And thy houses shall be filled, and the houses of all thy servants, and the houses of all the Egyptians

“...14 And the locusts went up all over the land of Egypt, and rested in all the borders of Egypt ;.. 15 For they covered the face of the earth, so that the land was darkened ; and they did eat every herb of the land, and all the fruit of the trees which the hail had left ; and there remained not any green thing, either tree or herb of the field, through all the land of Egypt... 19 And the Lord turned an exceeding strong west wind, which took up the locusts, and drove them into the Red Sea ; there remained not one locust in all the border of Egypt.”—*Exodus*, X.

Rádl (1930, p. 92), in his book *The History of Biological Theories*, mentions that “Napier, the discoverer of logarithms, discussed with equal earnestness those complicated properties of numbers and the question whether migratory locusts may have been Mohammedans by religion”.

In recent years in the Russian novel, *The Locusts*, by Sergey Budantsev (1927), the plot is woven around the struggle with locusts in Central Asia. The American novel, *The Good Earth*, by Pearl Buck contains vivid references to locusts in China, and, based on the book, there is also a cinema film in which locust swarms are shown.

It is chiefly because of the extraordinary feats of locusts that public interest in the family has been roused. Locust swarms are truly huge, sometimes 10 miles long and a mile wide, and contain millions of insects. When such swarms visit us periodically, the sun is hidden as if by clouds. Where the swarms alight, they make short work of all green vegetation, whether crops or trees or even bark, within a matter of a few hours, leaving a desolate scene behind. Where they alight, it is impossible to walk without crushing a handful of them under your feet. I once witnessed in Jodhpur (Rajasthan) that the wheels of a railway engine slipped back repeatedly due to the crush of the dense mass of locusts

on the rails, and the train could move forward only when sand was thrown on the rails in front of the puffing engine. Then there is the case of a locust swarm in Russia stripping a herd of sheep of its wool for food (*vide* Husain and Mathur, 1936a). In another case, a 10-month old human baby was eaten up by a swarm of locusts in the Osian village, Jodhpur District, Rajasthan (India) while the mother was working in another part of the field (*vide* "INDIA", 1952, *Hindustan Times*, Delhi, Nov. 20, 1952, p. 8, col. 4) ; the report stated : "when after a while the mother reached the spot, she found to her horror that her dear son had been completely finished by the pest"

While locust swarms cause famine and pestilence in agriculturally fertile areas, in the non-fertile and desert areas such as Baluchistan, locust swarms are welcomed as they form a valuable source of food. Children and womenfolk make it a holiday when swarms come, and have a busy time collecting locusts ; they then break their heads which are thrown away and dry the bodies in the sun. The dried locusts are stored in bags, to be made into curry when required.

Locust control is a problem which requires international cooperation. Not only that, but also in each country the control work is an emergency problem requiring quick action on as wide a public and official sector as possible. And so when swarms invade an area, all available manpower—army personnel, students and other members of the public—is harnessed to the task. But people may have their own objection to killing "life" This happened in 1950 in the Mehsana District in Gujrat (India) when thirty persons were jailed (*vide* "INDIA", 1950, *Hindustan Times*, Delhi, Nov. 21, 1950, p. 6, col. 5). The report stated that "the 30 persons who were arrested had raided a Government insecticide depot and attacked a locust-fighting squad." And further : "The same sentiment blinded others to throw a causeway of shrubbery across the river Banas near Dessa town to help locust swarms cross it. (Don't they have wings?) ; this 'sentimental causeway' was improvised to help hungry locusts across to fertile fields."

5. *Historical account of works on the Acrididae*

A history of the scientific attention, as judged by the number and variety of publications, devoted to the family Acrididae, is of some interest. In the ancient and mediaeval texts, the family came to be mentioned mainly because of the spectacular and devastating locust plagues. References to them occur here and there in the ancient Indian (Sanskrit), Egyptian and Chinese texts, but a systematic and critical study of these texts is a desideratum. In the ancient Greek texts, ARISTOTLE (4th century B. C.) referred in passing to locusts. In the *Bible* (the *Old Testament*, 2nd century A. D., and the *New Testament*, 4th century A. D.) fairly extensive references are made to the devastating habits of locust swarms, probably that of the Desert Locust, *Schistocerca gregaria* (Forsk.) but in a literary way only (*vide supra*). Following this, there was an almost complete absence of any worthwhile mention of locusts, etc., during the middle ages in Europe and elsewhere for about a 1000 years (400-1399 A. D.). In the 15th century, the Arab writer AD-DAMIRI (died 1430 A. D.) refers to locusts (probably the Desert Locust) in his work. This is the sole

reference from the year 1400 up to about 1656. From 1657-1695, about 13 scientific publications where locusts had been mentioned appeared in Europe, thus : The English book by S. PURCHAS (1657) entitled *A Theatre of Political Flying Insects* was published in London ; while dealing mainly with bees, it referred to locusts also. In 1690 was published in Uppsala the small eight-page dissertation on locusts by J. BILBERG and P. SALONIUS. In 1693, about seven publications (by EBERLIN, FICHTELBERGER, HEBENSTREIT, KIRCHMAJER, C. H. LÖBER, SCHRECK-RUTE, TREUNER and by WOLLENHAUPT); in 1694, three (by FLOYD, LUDOLF and by OWEN) ; and in 1695 one (by RAYGER), dealing with locusts plagues were published, mostly in Germany. Thus, in the entire 17th century only 13 references (average 0·13 per year) were published.

In the 18th century (1700-1799) about 43 references (average 0·43 per year) were published, all in Europe ; this excludes the purely taxonomic references of such authors as those of C. LINNÉ (1758), P. FORSKAL (1775), etc. In the first half of the 19th century (1800-1849) about 77 references (average 1·5 per year) were published, but the number rose sharply in the second half of the century (1850-1899) to 710 (or *ca.* 14 per year). From the beginning of the 20th century, the number has been steadily rising from about 17 per year in the first 10-year period (1900-1909) to nearly 270 in 1953, but there was a decline during the period of the Second World War (1939-45). Further details of distribution will be found in Table 1.

*TABLE 1.—*Distribution of publications on the Acrididae (short-horned grasshoppers, including locusts) through the centuries, up to the end of 1954. (From the Main List of References only.)*

Years (A.D.)	Total period (years)	Total number of references	Average number of references per year (Approximate)	Remarks
2nd century . . .	100	1	..	..
3rd century . . .	..	..	..	..
4th century . . .	100	1	..	..
400-1399 . . .	1000	<i>Nil</i>	..	..
1400-1499 . . .	100	1	..	..
1500-1599 . . .	100	<i>Nil</i>	..	..

*Subsequent to this tabulation about 50 references were added, and are accounted for in the subsequent tables.

TABLE 1—*contd.*

Years (A.D.)	Total period (years)	Total number of references	Average number of references per year (Approximate)	Remarks
1600-1699	100	13	0.13	1600-1656...0 1657-1699...13
1700-1799	100	43	0.43	..
1800-1849	50	77	1.5	..
1850-1899	50	710	14	..
1900-1909	10	170	17	..
1910-1919	10	350	35	..
1920-1929	10	840	84	..
1930-1939	10	1989	199	..
1940-1949	10	1172	117	..
1950	1	235	235	..
1951	1	239	239	..
1952	1	269	269	..
1953	1	263	263	..
1954	1	181	181	Somewhat incomplete ?
TOTAL :		6554	..	..

6. Arrangement of the Bibliography

The references in the bibliography are arranged alphabetically, according to authors' surnames, and for each author chronologically. Where it is not possible to assign a reference to a particular author owing to anonymity of publication, the reference is listed either under ANONYMOUS, or under a country or continent (*e.g.*, AFRICA, AUSTRALIA, EGYPT, etc.) to which it specifically refers or to some other specific heading such as INTERNATIONAL, etc. Such impersonal "author-names" are enclosed within square brackets : "[]".

Each reference consists of the following components in the order given below :—

(i) Author's surname, followed by his or her initials. In the case of joint authorship, the individual authors are listed in the order given in the original publication. Where there are more than one individual

author with the same surname and initials, they are differentiated by the prefixes (A), (B), etc., thus :

- (A) COLEMAN, L. C.
(B) COLEMAN, L. C.

(ii) The year of actual *publication*. In some references, there is a discrepancy between the actual year of publication of a reference and the date printed on the title page which might merely indicated the year to which a particular volume or part of a journal normally belonged and in which it was expected to be published. The actual date of publication is sometimes indicated on the title page itself, in addition to the expected date of issue, and in other cases this information is obtainable in a variety of other ways. Where the above-mentioned discrepancy exists, the "expected" year of publication is printed within square brackets after the volume or number.

(iii) The *full* title of the paper in the original language, if the language is one of the more common European languages adopting the Latin script, *viz.*, either English, French, German, Italian, Latin or Spanish, etc. In the case of other languages, the title is usually translated into English, and the name of the original language mentioned in square brackets at the end of the title.

The title is printed in Roman when the reference is published as a paper in a periodical, and in Italics when it is published as an independent book or pamphlet.

(iv) The name of the journal or periodical, abbreviated (with minor variations where considered necessary) according to the recommendations of the book *A World List of Scientific Periodicals* (3rd ed., London, 1952), followed, wherever possible, by the name of the town of publication.

(v) The volume number of the periodical, preceded, where necessary, by the series number within brackets, and followed, where necessary, by the number of the part, number, Heft, etc., within brackets.

(vi) In special cases, where there is a discrepancy between the actual date of publication and the expected date or date printed on the title page, the latter is mentioned in square brackets after the part or Heft number (*vide* No. (ii) above).

(vii) The first and last pages of the original reference, together with any additional pages if present. (Any text-figures, charts, etc., printed on these numbered text-pages are not, as a rule, mentioned separately.)

(viii) The total number of plates, charts, graphs, figures, tables, etc., which do not come on the text-pages already mentioned in No. (vii) above but are in addition to them.

(ix) Where an author (or a set of joint authors in identical order) have more than one reference under each year, the small letter *a, b, c*, etc., in Italics, is appended to the year following the name (s) of author(s).

Cross references are given, in the appropriate alphabetical place, to the alternative spellings of an author adopted in the literature, and to the authors other than the first one in the case of references with more than one author.

Each complete reference is serially numbered. Cross references do not bear any serial number but carry in its place a small dash.

At the end of the Bibliography there is an Author Index and a Subject Index.

A few fictitious examples of the mode of writing the references, as explained above, are given below for guidance :—

66. GOTWAL, R. K. 1923*a*. A study of the geographical distribution of some locusts. Part 2. The Asiatic species.—*Bull. comp. Anat.*, Bombay, (4) 6 (2) [Sept. 1922], pp. 14-94, 3 pls., 4 tables, 2 maps in pocket.
67. GOTWAL, R. K. 1923*b*. Studies on the anatomy of locusts.—*J. Zool. Anat.*, Washington, 6 (3), pp. 14-93, 5 pls.
- GUMBERG, L. P. 1944.—See BODINE, W. and GUMBERG, L. P. 1944.
69. GUNNER, P. A. 1864. *The Locust Plagues of the World*. xii+1+302+iv pp., 1 frontispiece, 23 pls.—Heidelberg (Günther & Co.).
70. GURTOVSKY, S. S. 1933. Aspects of locusts research in the Soviet Union. [In Russian.]—*Odessk. Vyatste*, Odessa, No. 173, pp. 8-63.

7. *Scope and completeness of the Bibliography*

An effort has been made here to compile as complete a list as possible of the published references on the family Acrididae, as understood in the first classification (not Chopard's, 1949) discussed above (p. 3) in the section on "Classification etc.", but the major references of the other allied though small families, viz., the Eumasticidae, the Proscopiidae the Tetrigidae (=Acrydiidae) and the Tridactylidae, are also included as guides to further search especially because in the older scientific literature (and even in some current literature) these families are not separated from the Acrididae. The bibliography covers the period from the earliest times to the end of the year 1954. Some readily available references published in 1955, 1956, and the early part of 1957 have also been included to enhance its utility, but these years are incomplete as it will be some considerable time before comprehensive information about them will become available. In this way a total of about 6,600 references has been assembled here in the main bibliography and about 700 in the supplementary ones.

No special effort was made to include the references to locusts and grasshoppers occurring in the ancient texts (see above under Historical Account, p. 9), as the labour involved in the task would not have been commensurate with the results—the main purpose of the present bibliography being scientific rather than historical. The earliest dated reference in historical times is that in the Arabic work of AD-DAMARI (died 1430 A.D.), and then from about 1657 onward works started appearing in Europe which steadily increased in number and improved in scientific quality as years rolled by.

The bulk of the references listed here have been examined by me, as opportunity occurred, in the various libraries of the world, especially in the following countries :—India, Great Britain, Germany, Sweden, Italy, France and the U.S.A. In India the libraries most profitable in this respect were those of the Zoological Survey of India,

Calcutta, the Indian Agricultural Research Institute, New Delhi, and the Forest Research Institute, Dehra Dun. References which could not be examined in the original were taken from other authoritative publications, particularly the following :—

- ACRIDOLOGICAL ABSTRACTS. 1950-1956. (For references from 1949 onwards.)—London (Anti-Locust Research Centre).
- AGASSIZ, L. and STRICKLAND, H. E. 1848-1859 (?). *Bibliographia Zoologie et Geologie*, 1-4 (1848-1859 ?)—London.
- BRITISH MUSEUM (NATURAL HISTORY), LONDON. 1903-1933. *Catalogue of Books, Manuscripts, Maps and Drawings in the British Museum (Natural History)*, 1-7 (1903-1933).—London.
- CARUS, J. V. and ENGLEMAN, W. 1861. *Bibliotheca Zoologica*. [1]. (For the years 1846-1860.) Bd. 1 (pp. x+1-950) ; Bd. 2 (pp. xxiv+951-2144).—Leipzig.
- ENGLEMAN, W. 1846. *Bibliotheca Historico-Naturalis*. 1. (For the years 1700-1846.) Pp. viii+2+786.—Leipzig.
- HORN, W. and SCHENKLING, S. 1928. *Index Literaturae Entomologicae*. Serie I. *Die Welt-Literatur über die gesamte Entomologie bis inklusive 1863*. 1-3 (1056 pp., 5 pls.).—Berlin.
- REVIEW OF APPLIED ENTOMOLOGY. 1913-1956. 1-44 (Series A and B).—London.
- ROONWAL, M. L. 1954. A brief review of the progress of entomology in India during the period 1938-50, together with a bibliography.—*Mem. ent. Soc. India*, New Delhi, No. 3, pp. 1-119.
- TASCHENBERG, O. 1887-1923. *Bibliotheca Zoologica*. 2 (Bds. 1-8, ca. 6620 pp.).—Leipzig.
- UVAROV, B. P. 1928. *Locusts and Grasshoppers*.—London.
- UVAROV, B. P. 1948. Recent advances in Acridology : Anatomy and physiology of Acrididae.—*Trans. R. ent. Soc. Lond.*, London, 99, pp. 1-75.
- ZOOLOGICAL RECORDS. 1864-1953. Annual volumes 1-90.—London.

In spite of all this effort it is possible, and indeed almost certain, that some references have been overlooked, although I hope and believe that their number is small. The publication of this Bibliography will highlight those omissions. I will be grateful if readers will be kind enough to bring any omissions and inaccuracies to my notice.

8. Some analyses of the Bibliography

Some general analyses of the about 6604 references included in the Main Bibliography will be of some interest. These analyses have been done in regard to the following aspects :—

- (a) Distribution under the various alphabets according to the authors, names.
- (b) Number of individual authors in the entire list, and under each alphabet.
- (c) Number of references by separate authors.
- (d) Distribution of references by countries of publication.
- (e) Distribution of references by languages of publication.

(a) Distribution of references under alphabets (authorwise)—

Out of a total of about 6604 separate references, their distribution under the various alphabets (with which the authors' names begin) varies from 0-655. At the lower end of the scale, the distribution is : X, 0 ; Q, 5 ; Y, 29 ; O, 55 ; and at the higher end : B, 655 ; S, 626 ; R, 510 ; M, 443 ; C, 433.

(b) Number of individual authors—

The total number of authors in the entire bibliography (excluding impersonal authorships, e.g., under countries, anonymous, etc.) is about 2858.

The number of separate authors (exclusive of impersonal authorships) under each alphabet varies from 0-321, the distribution towards the two extremes being as follows : X, 0 ; Q, 3 ; U, 13 ; Y, 20 ; Z, 29 ; O, 30 ; and S, 322 ; B, 282 ; M, 231 ; C, 202.

(c) Number of references by separate authors—

The total number of references, up to the end of the year 1954, attributable to individual authors (for joint papers, the first author alone is counted for this purpose) varies from 1 to about 202. About 118 authors have contributed 10 or more papers. The following authors have contributed more than 50 papers each :—

Y Ramachandra Rao (1920-54)	:	51	papers.
M. L. Roonwal (1933-55)	:	61	„
J. A. G. Rehn (1901-54)	:	64	„
J. Lieberman (1928-53)	:	82	„
J. H. Bodine (1921-54)	:	90	„
B. P. Uvarov (1911-54)	:	202	„

(d) Distribution of references by countries of publication—

The distribution of the 6604 references by continents or major regions is as follows :—Africa, 517 ; Asia, 725 ; Australia and New Zealand, 151 ; Europe (including U.S.S.R.), 3307 ; North and Central America, 1450 ; South America, 448 ; and doubtful or unaccounted, 6. The breakup by countries is given below ; the most prolific countries are the U.S.A. (1254) and Great Britain (840).

I—AFRICA		II—ASIA	
1. Algeria	73	1. China	42
2. Egypt	86	2. India	520
3. Morocco	26	3. Japan	71
4. Rhodesia	36	4. Philippines	29
5. South Africa	166	5. Others	63
6. Sudan	25		
7. Others	105		
	<hr/> 517 <hr/>		<hr/> 725 <hr/>

III—AUSTRALIA and NEW ZEALAND		V—NORTH and CENTRAL AMERICA	
1. Australia	148	1. Canada	148
2. New Zealand	3	2. Central America	6
	———	3. Hawai IIs.	5
	151	4. Mexico	37
	———	5. U. S. A.	1254
IV—EUROPE (including U.S.S.R.)			———
1. Belgium	92		1450
2. France	571	VI—SOUTH AMERICA	
3. Germany	569	1. Argentina	382
4. Great Britain	840	2. Uruguay	23
5. Holland	46	3. Others	43
6. Italy	331		———
7. Spain	89		448
8. Sweden	51		———
9. Switzerland	3	Total	6598
10. U. S. S. R.	580	Doubtful or unaccounted	6
11. Others	105		———
	3307	GRAND TOTAL	6604
	———		———

(e) *Distribution of references by languages of publication—*

The distribution of the 6604 references by the language of publication shows that the vast majority of them (*ca.* 6524) have been published in the European languages among which English dominates (with *ca.* 3667 references); only about 70 have been published in the Asian languages. The approximate distribution in the major languages is as follows :—

I—EUROPEAN LANGUAGES		II—ASIAN LANGUAGES	
Dutch	23	Chinese	22
English	3667	Japanese	36
French	817	Other Asian languages	12
German	631		———
Italian	255		70
Latin	23		———
Russian	502	III—MIXED OR UNCLASSIFIED	10
Spain	526		———
Swedish	20	GRAND TOTAL	6604
Slav and allied languages, excluding Russian	37		———
Other European languages	23		———
	6524		———
	———		———

II—SUMMARY

1. A comprehensive bibliography of the Orthopterous insects of the family Acrididae (comprising the short-horned grasshoppers and locusts) from the earliest times to the end of the year 1954 is given. Readily available references published during 1955, 1956, and the early part of 1957 are also included to enhance the utility of the bibliography.

2. The Main Bibliography contains about 6554 references which are arranged alphabetically according to the author's surnames. Under each author, the references are arranged chronologically.

3. Each reference consists of the following components in the order stated below ; The author's surname(s) and initials ; the year of publication ; the full title of the paper or book etc., in the original language if the language is one of the more common European languages, otherwise in the English translation ; the abbreviated name of the journal or periodical ; the volume number, preceded by the series number, if any, and followed by the number of part, Hefte, etc., if any ; the first and last pages ; and the number of plates, chart, etc. not included in regular text-pages.

4. Cross references are given in the appropriate alphabetical place to the alternative spellings of an author adopted in the literature, and to the authors other than the first one in the case of references with more than one author.

5. All references, except cross references, carry a serial number.

6. In a brief Introduction the following aspects of the bibliography etc., are discussed :—

(a) The classification of the short-horned grasshoppers into families, superfamilies, etc., is given. (b) The current names and synonyms of the more important economic species of the family Acrididae, especially the migratory ones, are listed. (c) Some general remarks on the family Acrididae with especial reference to the more spectacular doings of the locusts are given. (d) A brief historical account of the scientific writings on the family Acrididae is provided. (e) The arrangement, scope and completeness of the bibliography are discussed. (f) Some analyses of the references contained in the bibliography, with regard to such aspects as the number of individual authors, distribution by countries and languages of publication, etc., are given.

7. At the end of the Main Bibliography are given an Index to Authors and a Subject Index.

8. Two Supplementary Bibliographies of about 700 references have been added, followed by an Index to Authors and a Subject Index in each Supplement.

III—BIBLIOGRAPHY

References dealing either wholly or in part with the Desert Locust, *Schistocerca gregaria* (Forsk.), are marked with an asterisk (*).

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IV—INDEX TO AUTHORS

A		A—contd.	
	PAGE		PAGE
AAMODT, T. L.	17	ALLMAN, S. L.	23, 484
ABBE, C.	18	ALMEIRA, A.	24
ABITO, J.	18	ALPATOV, V. V.	24
ACHARD, E.	18	ALVES DA SILVA, A.	24
ACKERMANN, Z.	18	[AMERICAN CYANAMID COM- PANY]	25
ACKWORTH, E. C. B.	18	AMOROSO, C.	25
ADAMOVICH, ZH. R.	18	ANDER, K.	25
ADAMSON, D. M.	18, 321, 425	ANDERS, A.	25
AD-DAMIRI, IMAL KAMAL EL DIN MOHAMMAD IBN ISA	9, 13, 18	ANDERSON, E.	.. 25
ADLE, A. H.	18	ANDERSON, J. R.	.. .. 25, 332
ADLER, E.	18	ANDERSON, N. L.	.. 25, 323, 484
ADLERZ, G.	18	ANDERSON, T. J.	25
[AEROPLANE, CONTROL BY]	18	ANDRÉ, F. F. A.	25
[AFRICA]	11, 15, 18, 19, 20	ANDREWARTHA, H. G.	26, 27, 56, 123, 424
AFZAL HUSAIN, M.	20, 199—201	ANDREWS, E. A.	27
AGACINO, E. MORALES	20, 293	[ANGLO-EGYPTIAN SUDAN]	27, 422, 423
AGARWAL, N. S.	20	ANGUS, W. C.	27
AGARWALA, S. B. D.	20	ANNAND, P. N.	27
AGHARKAR, S. P.	20	ANNANDALE, N.	27, 96
AGNÉLLY, A. H.	20, 21, 122, 246	[ANONYMOUS]	11, 27—33
AHMED, T.	.. 21 200, 228, 277	ANTONOV, N. V.	33, 240
AINSWORTH, M..	22, 227, 434	ANVERY, S. A. A.	33
AITKIN, E. H.	22	APPANNA, M.	33, 239
AKAIRA, R.	22, 159, 198	APPLE, J. W.	33, 360
ALAM, S. M.	22	ARANDA JIMENEZ, J. B..	34
ALBRECHT, F. O.	22	ARANGO, R.	.. 34
ALCOCK, A.	22	ARCHIBALD, E. D.	.. 34
ALDEN, W. C.	22	[ARGENTINA]	.16, 30—32, 34, 35, 127
ALDRICH, J. M.	22	ARISTOV, V. P.	35
ALEINKOVA, M. M.	22	ARKHANGELESKII, P. P..	35
ALESSI, G.	.. 22	ARMITAGE, H. M.	35
ALEXANDER, E. G.	22	ARNABOLDI, R.	35, 300, 400
ALEXANDER, G.	22, 210	ARNAULT,—	35
ALFARO, A.	23	ARNOUX, J.	35, 116, 357
[ALGERIA]	15, 23	ARNSON, A. P.	36
ALLAN, W.	23, 46, 284	ARRIBÁLZACA, E. L.	36
ALLEE, W. C.	23	ARRIETA, M. L.	36, 114
ALLEGRE, C. F.	23	ARTOM, C.	.. 36
ALLÉGUÈDE, R.	23	ASANA, J. J.	36, 269, 270, 307
ALLEN, T. H.	23, 24, 62, 63, 67, 68, 73, 93, 313, 349, 426	ASGHAR, M. A.	36, 185, 248
		ASHALL, C.	.. 36, 341
		ASHMEAD, W. H.	.. 36

<i>A—concl'd.</i>		PAGE	<i>B—cont'd.</i>		PAGE
ASMUSS, E. P.		36	BANNING, M. B. N.		42, 218
ASSO Y DEL RIO, D. J. S. C.		36	BARANOV, N. I.		42, 48
[ASTRAKHAN, RUSSIA]		37	BARBARÁ, B.		42
ATALLA, J.		37, 189	BARBER, M. A.		42, 220
ATHERTON, R. F.		37	BABBER, M. E.		42
ATTIA, R.		37	BARBIERI, P. A.		42
AUBERTIN, D.		37	BARBUT,—		42
AUBERTOTO, M.		37	BARLOW, E.		42, 43
AUDINET, SERVILE		37, 394	BARNES, O. L.		43
AUDOUIN, J. V.		37, 80	BAROLES, W.		43
AUER, A.		37	BARON,—		43
AUGER, D.		37, 149, 150	BARRAU, J.		43
AURIVILLIUS, C.		37	BARRAUD, M.		43
AURORA, A. C.		37	BARRETTA, L.		43
[AUSTRALIA]	11, 15, 16, 31, 33, 37-	39, 414	BARROS QUEIROZ, J.		43
AUTRUM, H.		39, 160	BARROW,—		43
AVASTHY, P. N.		39, 178	BARROWS, W. B.		43, 389
AVIGLLANO, V.		39, 111	BARSA, M. C.		43
AYYAR, T. V. RAMAKRISHNA		39, 283	BARSACQ, T. P.		44
B			BARTHOLOMEW, J. G.		44, 108, 176
B., M.		39	BATH, T.		44
BABENKOVA, V. A.		40	BATRA, H. N.		44
BACCETTI, B.		40	BATRA, R. N.		44, 298
BACH, M.		40	BATTAGLIA, B.		44, 333
BACHKIROFF, Y.		40	BAUER, V.		44, 83
BACHMETJEV, P.		40	BAUME, W. LA.		44, 244
BACIGALUPI, R.		40	BAUMGARTNER, W. J.		44, 322
BADAMI, R. V.		40	BAUMHOFFER, L. G.		44, 473
BADEN, V.		40	BAWA, S. R.		45
BAER, W.		40	BAWEJA, K. D.		45, 200
BAGNOLD, R. A.		40	BAXTER, E. W.		45, 306
BAJAL, H. N.		40, 272	BAZILE, G.		45
BAIRD, W.		40	BAZYLUK, W.		45
BAKER, R. H.		40, 77	BEADLE, N. C. W.		45
BAKÓ, G.		40	BEADNELL, H. J. L.		45
BALAMIR, S.		40, 41, 50	BEAMENT, J. W. L.		45, 479
BALCHOWSKY, A.		41	BEAMS, H. W.		45, 46, 129, 144, 231, 376, 392, 425
BALFOUR-BROWNE, F.		41	BEAUDRY, J. R.		46, 441
BALL, E. D.		41	BEAUREGARD, H.		46
BALLARD, E.		41, 289, 299, 492	BEBBINGTON, G.		23, 46
BALOGH, J.		41, 265	BECHARD, R. M.		46
BANDINI, P.		41	[BECHUNALAND, AFRICA]		46
BANERJI, B. N.		41	BECK, G. A.		46, 226, 327
BANERJI, S. N.		41	BECKER, E.		46
			BECKER, R.		46

B—contd.		B—contd.	
	PAGE		PAGE
BEDDARD, F. E.	46	BHALLA, H. R.	54, 200
BEDFORD, H. W.	.. 47, 231	BHASIN, G. D.	54, 287, 374
BEESON, C. F. C.	.. 47	BHATIA, D. R.	54, 55, 337, 338, 347
BEFFA, G. DELLA	47	BHATIA, K. R.	55, 402
BÉGUET, M.	47, 48, 300, 394	BHIMBER, B. S.	55, 303, 342
BEHURA, B. K.	48, 393	BIANCHI, V. L.—See BIANKI, V. L.	55
BEI-BIENKO, G. YA	.. 42, 48, 49, 68, 103, 145, 290, 396	BIANKI, V. L.	55, 213
BEIER, M.	49	[BIBLE]	8, 9, 55
BEINGOLEO, G. O.	50	BICKLEY, W. E.	55
BÊLÂR, K.	50	BIENKO, G. YA. BEI	48, 55
BELKE, G.	50	BIEZANEO, C. M. DE	.. 55
BELLAMY, A. W.	50	BIGELOW, R. S.	55, 357
BELLIK, S.	41, 50	BIGGER, J. H.	. 55, 146, 153
BELOUSOV, V. M.	50	BIGNELL, G. C.	.. 55
BELTRÁN, E.	50	BILBERG, J.	10, 55, 382
BENEDETTI, E.	50	BINAGHI, G.	.. 56
BENEDICTIS, A. DE	50, 51	BINDRA, O. S.	56, 333
BENLLOCH, M.	51, 90	BINET, A.	56
BENUA, K. A.	51	BIRCH, L. C.	.. 26, 27, 56
BEQUAERT, J.	51	BISHOP, D. W.	56
BEREZHKOV, R. P.	51, 52	BISHOP, H. J.	. . 56
BEREZHKOVA, A. A.	.. 52	BISWAS, K.	56, 344
BERG, C.	52	BLAINVILLE, M. H. DE	57
BERG, M. M. IVANOVA	52	BLANC, G.	57, 88, 307
BERG, V. L.	52, 166, 230, 281, 321	BLANCHARD, E.	57
BERGSTRÄSSER,—	52	BLANCHARD, E. E.	.. 30, 57, 274
BERLESE, A.	. 52, 53	BLANCO, G.	.. 57
BERNARD, F.	53, 325	BLANCO MONTORO, J. A.	. 58
BERNIMOLIN, P. J.	53, 128	BLANFORD, W. T.	.. 58, 137
BERRE, J. R. LE	. 53	BLASCO, M. A.	58, 263, 273
BERRETTA, L.	53	BLATCHLEY, W. S.	58
BERRY, P. A.	53, 89	BLATTER, E.	.. 58, 181
BERTKAU, P.	53	BLOCHMANN, F.	58
BERVILLÉ, P.	53, 244	BLUMENTHAL, R. A.	.. 58
BESKINE, J. M.	54	BLUNT, D. L.	58, 138, 309, 479
BESRUKOV, J.	54	BOBE, M. L.	58
BESSE, H.	54	BOCHE, R. D.	58, 83
BESSIO, F. M.	54	BODENHEIMER, F. S.	.. 58—61, 154, 255, 357, 392, 399
BETHE, A.	54	BODINE, J. H.	.. 15, 23, 24, 61—68, 73, 93, 94, 152, 167, 192, 265, 309, 313, 340, 349, 363, 426, 429, 431, 436, 475, 483
BETHUNE, C. J. S.	54	BODKIN, G. E.	68, 108
BETTA, E. DE	54	BOELL E. J.	.23, 63, 64, 68, 349, 363
BEY-BIENKO, G. YA	48, 54		
BEZRUKOV, J.	54		
BEZRUKOV, Y. G.	.. 54		
BEZRUKOVA, T. I.	.. 54		

B—contd.		PAGE
BOGDANOV-KAT'KOV, N. N.	.. ..	49, 68, 103, 145, 396
BOGUSH, P. P.	.. ..	68
BOHEMAN, C.	.. ..	69
BOISDUVAL (J. B. A. D. DE)	.. ..	69
BOLDURIEV, V. F.	.. ..	69
BOLDYREV, B. TH.	.. ..	69
BOLIVAR, I.	.. ..	69, 70
BOLIVAR, Y. PIeltaIN, C.	.. ..	70
BOND,—	.. ..	70, 79
BONESS, M.	.. ..	70
BONFILS, J.	.. ..	70, 111, 320
BONI, P.	.. ..	70, 109, 128
BONINI, J.	.. ..	70
BONJEAN,—	.. ..	70, 162
BONNAMOUR,—	.. ..	70
BONNEMAISON, L.	.. ..	70
BONNET, E.	.. ..	70, 151
BOON, W. R.	.. ..	70, 196
BORDAGE, E.	.. ..	71
BORDAS, L.	.. ..	71
BORGMANN, A. R.	.. ..	71, 121, 232
BORRE, P. DE	.. ..	71
BORRI, C.	.. ..	71
BORSEKOW, J.	.. ..	71, 386
BORTAGARAY, J. R.	.. ..	72
BOSE, IRA	.. ..	72, 349
BOSELLI, F.	.. ..	72, 317
BOSELLI, F. B.	.. ..	72
BOSQ, J. M.	.. ..	72
BOSQUE FLORES, R. DEL	.. ..	72, 128
BOTHA, D. H.	.. ..	72, 177, 328
BOTHA, M. L.	.. ..	72, 233, 273, 285
BOUET, G.	.. ..	72
BOUIN, A.	.. ..	72, 458
BOURIQUET, G.	.. ..	73
BOUROLHON,—DE	.. ..	73
BOUSH, G. M.	.. ..	73
BOUTELLIE,—	.. ..	73
BOUVIER, G.	.. ..	73
BOWEN, R. H.	.. ..	73
BOWEN, T. J.	.. ..	73
BOWMAN, MISS B. N.	.. ..	73, 453
BOY, C.	.. ..	73
BOYD, G. E.	.. ..	24, 62, 73
BOYD, K.	.. ..	73, 144

B—contd.		PAGE
BOYD, W. M.	.. ..	73, 474
BRADSHAW, F.	.. ..	73
BRAGG, J. H.	.. ..	73
BRAIN, C. K.	.. ..	73
BRANCSIK, C.	.. ..	73, 74
BRANDT, J. F.	.. ..	74
BRASNETT, N. V.	.. ..	74
BRATLEY, H. E.	.. ..	74, 471
BRATT, C. H.	.. ..	74, 424
BREDEMANN, G.	.. ..	74, 83
BRÉDO, H. J.	.. ..	74, 75
BRENNIÈRE, J.	.. ..	75, 76, 221, 271
BRÈTHES, J.	.. ..	76, 92
BRETON, L.	.. ..	76
BRETT, C. H.	.. ..	76, 77, 121, 139, 300, 357, 358
BRINDLEY, MRS. H. H.	.. ..	77, 189
BRINLEY, F. J.	.. ..	40, 77
BROADHEAD, G. C.	.. ..	77
BROCARD, H.	.. ..	77
BROCKMÜLLER, H.	.. ..	77
BRODSKIS, B.	.. ..	77, 379
BRONGNIART, C.	.. ..	77, 126
BRONSON, W. S...	.. ..	77
BROOKS, A. J.	.. ..	78
BROOKS, A. R.	.. ..	78
BROOKS, C. E. P.	.. ..	78, 287
BROUGHTON, W. B.	.. ..	78
BROUSSY, J.	.. ..	78
BROWN, A. W. A.	.. ..	78, 199, 313, 339
BROWN, E.	.. ..	70, 79
BROWN, E. S.	.. ..	79
BROWNE, A.	.. ..	79
BROWNING, T. O.	.. ..	79
BRUCH, C.	.. ..	79
BRUES, A. M.	.. ..	79, 406, 423, 426
BRUES, C. T.	.. ..	79, 80
BRÜGGER, C. G...	.. ..	80
BRUIJNING, C. F. A.	.. ..	80, 481
BRULLÉ, A.	.. ..	37, 80
(A) BRUNELLI, G.	.. ..	80
(B) BRUNELLI, G.	.. ..	80
BRUNNEAU DE MIRÉ, P.	.. ..	80
BRUNER, L.	.. ..	80, 81
BRUNETAU, J.	.. ..	81

B—contd.		B—concl'd.	
	PAGE		PAGE
BRUNNER (Jr.), A.	81, 138	BUTLER, E. J.	.. 88, 251
BRUNNER VON WATTENWYL, C.	81, 82	BUTT, F. H.	88, 218
BRUNO, G.	82	BUXTON, D. R.	88, 219
BRUNSON, A. M.	82, 315	BUXTON, P. A.	88, 414
BRUNTZ, L.	.. 82	BUYS, K. S.	88
BRUTTAN, A.	82	BYERS, W. M.	88
BRUZZONE, R. M.	82		
BRYANT, H. C.	82	C	
BRYANTSEVA, I. B.	.. 82, 83	CABRERA, A.	88
BRYDEN, H. A.	83	CAESAR, L.	88
BUCHANAN, D. E.	83, 426	CAILLON, L.	57, 88, 307
BUCHANAN, F.	83	CAIRANO, V. DI.	89
BÜCHER, H.	83	CAJAL, S. R.	89
BUCHNER, P.	83	CALABY, J. H.	89
BUCK, G.	83, 157	CALDÉRON, R.	53, 89
BUCK, J. B.	58, 83	CALLAN, H. G.	89
BUCK, PEARL. S.	8, 83	CALLAWAY, S.	89, 177
BUCKELL, E. R.	.83, 84, 415, 435	CALLOT, J.	89
BUCKLIN, D. H.	84	CAMERANO, L.	.. 89
BUDAKI UBOTCHISTOHE, B. Z.	84, 440	CAMERON, J. W. M.	89
BUDANTSEV, SERGEY	8, 84	CAMERON, M. L.	89
BUDDENBROCK, W. VON	.. 84	CAMPBELL, F. L.	90
BUGDANOV, G. B.	84	CAMPBELL, G. A.	90, 475
BUGO, J. M.	.. 84	CAMUS, J. S.	90
BUISSON, DU, —	84	CAÑIZO, J. DEL	51, 90, 294
BUISTRITSKII, P. N.	85	CANNING, E. U.	90
BURDICK, H. C.	85	CANTRALL, I. J.	90, 197, 487
BURGESS, L. E.	85, 281, 367, 412	CAPOT-REY, R.	91
BURKHOLDER, J. R.	85	CAPPE DE BAILLON, P.	91
BURMEISTER, F.	85	CAPRA, F.	91
BURMEISTER, H.	85	CARABELLA, A. D..	91
BURNETT, G. F.	85	CARAYON, L.	91
BURNETT, W. L.	85, 247	CARBONELL, C. S.	91, 379
BURNS, W.	85, 86, 272	CARCANO, M. A.	91
BURR, M.	86	CARDOSO, J. G. A.	91, 157, 383, 384
BURT, B. C.	86, 136	CARIDE MASSINI, P.	76, 92
BURTT, E.	86	CARL, J.	92
BURTT, E. D.	86, 451	CARLOTTI, J.	92
BURTT, E. T.	86, 96	CARLSON, C. J.	92
BUSH, S. F.	86	CARLSON, J. G.	92, 93 161, 187, 194, 411, 433
BUSNEL, M. C.	87, 126	CARLSON, L. D.	23, 65, 93, 94, 349
BUSNEL, R. G.	87, 101, 126, 134, 264	CAROTHERS, ELEANOR E.	94, 95
BUTCHER, F. D.	.88, 121, 479	CARPENTER, G. D. HALB	95
BUTCHER, F. G.	. 88	CARPENTER, G. H.	.. .. 95
BUTLER, C. G.	88, 207	CARPENTER, W. L.	.. .. 95

C—contd.		PAGE
CARPENTIER, F.	.. ..	95
CARRIL, L. M. DEL	.. ..	95
CARROL, M.	.. ..	95
CARTER, H. G.	.. ..	27, 96
CARUS, J. V.	.. ..	14, 96, 140
CASALI, D. C.	.. ..	96
CASSELMAN, W. G. B.	.. ..	96, 396
CASTENS, M.	.. ..	96, 313
CASTILLO, J. DEL	.. ..	96, 197, 268
CASTLE, W. E.	.. ..	96
CASTRONOVO, A.	.. ..	96
CATTON, W. T.	.. ..	86, 96
CAYAL, S. R.	.. ..	89, 96
CAZAL, P.	.. ..	96, 176
CEMBER, H.	.. ..	96, 161, 397
CHABOUSSOU, F.	.. ..	96, 97, 244, 330 357, 366, 459
CHABROLIN, C.	.. ..	97
CHADIMA, J.	.. ..	97
CHAMBERLAIN, F. S.	.. ..	97
CHAMBERLAIN, T. R.	.. ..	97, 281
CHANG, K. S. F.	.. ..	97
CHANG, T. G.	.. ..	97, 225
CHANNA BASAVANNA, G. P.	.. ..	97, 98
CHAPMAN, E.	.. ..	98
CHAPMAN, J. A.	.. ..	98, 116
CHAPMAN, K. H.	.. ..	98
CHAPMAN, R. F.	.. ..	98
CHAPMAN, R. N.	.. ..	98
CHARPENTIER, T. VON	.. ..	98
CHATIN, J.	.. ..	98
CHATTERJEE, N. C.	.. ..	99, 105
CHATTERJEE, S. N.	.. ..	99, 298
CHATURVEDI, P. L.	.. ..	99
CHAUDET, A.	.. ..	99, 157, 274, 454
CHAUDHURI, S. A.	.. ..	99, 247
CHAUDHURI, S. P. R.	.. ..	72, 99, 136, 176, 272, 349, 350
CHAUVIN, R.	.. ..	87, 100, 101, 121, 283
CHAVASSE, P.	.. ..	87, 101
CHEESMAN, R. E.	.. ..	101
CHEFURKA, W.	.. ..	101, 183, 323, 409
CHEN, K. Z.	.. ..	102
CHEN, S. T.	.. ..	102
CHEN, T. T.	.. ..	102, 265
CHENG, T. S.	.. ..	102, 484

C—contd.		PAGE
CHENYKAEVA, E. J.	.. ..	102, 238, 239
CHERIAN, M. C.	.. ..	102, 347, 348
CHESLER, J.	.. ..	102
CHETUIRKINA, I.—See CHETYRKINA, I. A.	.. ..	102
CHETYRKINA, I. A.	.. ..	102
CHEU, S. P.	.. ..	102
CHEVALIER, A.	.. ..	103
CHIARO MONTE, A.	.. ..	103
CHIESA MOLINARI, O.	.. ..	103
CHIGAREV, G. A.	.. ..	49, 103
CHILD, C. M.	.. ..	103
[CHINA]	.. ..	15, 103
CHOPARD, L.	.. ..	3, 13, 99, 103—105, 121, 357
CHOPRA, R. L.	.. ..	105
CHORBADZHIEV, P.	.. ..	105, 106
CHORLEY, J. K.	.. ..	106, 279
CHRISTIE, J. R.	.. ..	106, 109, 419
CHUDEAU, R.	.. ..	106, 107, 176
CHURCH, N. S.	.. ..	107, 383
CHUNG, CHI-CHIEN	.. ..	107
CHUVAKHIN, V. S.	.. ..	107
CIARANO, V. DI.	.. ..	107
CICLA,—	.. ..	107
CLAASSEN, P. W.	.. ..	107
CLACKSON, J. R.	.. ..	107, 427
CLADERON, S.	.. ..	107
CLAIR, A. H. ST.	.. ..	107, 418
CLAPARÈDE, E.	.. ..	107
CLARK, A. M.	.. ..	107, 255
CLARK, E. J.	.. ..	107
CLARK, L. R.	.. ..	107, 108
CLARK, R. S.	.. ..	42, 108, 189, 218, 323
CLARKE, W. E.	.. ..	44, 108, 176
CLARKE, W. J.	.. ..	108
CLAUSEN, C. P.	.. ..	108
CLAYTON, H. H.	.. ..	108
CLEARE, L. D.	.. ..	68, 108
CLÉMENT, P.	.. ..	108
CLEMENTS, F. E.	.. ..	108, 184, 397, 471
CLOGG, S.	.. ..	109
CLOUDSLEY-THOMPSON, J. L.	.. ..	109
CLOYD, W. J.	.. ..	109, 417, 418
COATON, W. G. H.	.. ..	109

C—contd.		C—concl.	
	PAGE		PAGE
COBB, N. A.	106, 109, 419	COSTA LIMA ..	114
COBELLI, R.	109	COSTA, O. G.	114
COCKERELL, T. D. A.	109	CGSTANTINO, G.	114
COE, S. B.	109	CGSTE ₂ P.	114
COHIC, F.	109	CGTES, E. C.	114, 115, 178
COLARUSSO, A.	70, 109, 128	COTT, H. B.	116
COLBERG, W. J.	109	COTTERELL, G. S.	116
COLE, K. S.	110, 214	[COUNCIL ON PHARMACY AND CHEMISTRY]	116
COLE, L. W. L.	110	COURSEY, J. D. DE	116, 189
COLEMAN, E.	110	COUSANDIER, P. A. DE	116
(A) COLEMAN, L. C.	12, 110, 242	COUTURIER,—	35, 116, 357
(B) COLEMAN, L. C.	12, 110	COWAN, F. T.	116, 319, 398
COLENO, P.	110	COWLAND, J. W.	116
COLLENS, A. E.	110	COYNER, W. R.	116
COLLETT, R. W..	110	CRAIG, R.	98, 116, 196
COLLINS, G. B.	11 ⁰	CRAM, E. B.	117
COLLINS, P. B.	110	CRAMPTON, G. C.	117
COLOMBO, G.	39, 110, 111	CRAWFORD, H. G.	117
COLONNA-CESARI, X.	70, 111, 321	CRAWFORD, J. C.	117
[COMITE INTERAMERICANO PER- MANENTE ANTIACRIADIANO]	111	CRAWLEY, H.	117
COMME,—	111	CREIGHTON, MARGARET	117, 118, 143, 365
COMMON, I. F. B.	112	CRELLIUS, L. C.	118
[COMMONWEALTH ENTOMOLOGI- CAL CONFERENCE, LONDON]	112	CRESKITELLI, F.	118, 119, 214, 428
COMMUN, R.	112	CRIDDLE, N.	118, 119, 290
COMSTOCK, J. H.	112, 225, 234	CROCE, F.	119
CONIL, A.	112	CROS, A.	119
CONIL, P. A.	112	CROSS, F. C. C. .	119, 219
CONNIN, R. V.	112, 239	CROSS, W. ..	119
CONOR, M.	112	CUCCATI, G.	119
COOK, E. F.	112	CUÉNOT, L.	119
COOK, P. M.	112	CURTIS, L. C.	119
COOK, W.	112, 113	CUSCIANNA, N.	119
COOLEY, R. A.	113, 318, 421	CUTHBERTSON, A.	119, 120
CORBETT, G. H.	113, 286	[CYPRUS]	12 ⁰
COREY, H. IRENE	113		
CORKINS, C. L.	113	D	
CORKINS, J. P.	113	D., A.—See DUBOIS, A.	120, 135
CORNISH, T.	113	DAGUERRE, J. B.	72, 120, 121
CORONADO PADILLA, R.	36, 114	D' AGUILAR, J.	101, 105, 121, 357
CORTES Y MORALES, B.	114	DAHM, P. A.	71, 88, 121, 232, 479
CORTI, R.	114	DAHMS, R. G.	76, 121, 357, 358
CORY, N.	114, 171	DAL PRA, G.	121
COSTA, G.	114	DAMPF, A.	121, 122, 194, 455
COSTA J. A. ROSAS	114	DARDEN (Jr.), E. B.	122, 161, 265, 308

D—contd.		PAGE	D—contd.		PAGE
DARK, S. O. S.	..	122	DEL CAÑIZO, J.	.	90, 127
DARLING, R. C. MAXWELL		122, 278	DEL CARRIL, L. M.	.	95, 127
DARLINGTON, C. D.		122	DE LÉPINEY, J.	.	127, 253
DARLOW, H. M.		122	DE LERMA, B.		70, 109, 128
DARRU, A.		21, 122, 246	DELGADO, DE TORRES, D.		128
DARWIN, C.		122	DELGADO, A. M.		72, 128
DAS, S.		122	DELLA BEFFA, G.		128
DA SILVA, D.		122, 323	DELMAS, R.	.	128, 342
D'ASSIS-FONSECA, E. C. M.		123	DE LOTTO, G.	..	128
DAVEY, J. T.		123	DELVAUX, E. L.		53, 128
DAVEY, P. M.		123, 178, 263	DEMARIA MASSEY, D.		128, 129
DAVID, S. K.		123, 342	DE MELLO-LETTÃO, C.		129, 282
DAVIDSON, J.	.	27, 123, 424	DEMOLE, J.	.	129
DAVIES, D. A.		123	DEMOLL, R.	.	129, 386
DAVIES, D. E.		123, 124	DEMPSTER, J. P.	.	129
DAVIS, E. G.		124, 466	DENIER, P. C. L.		129
DAVIS, H. S.		124	DENIER, P.	.	129
DAVIS, J. J.		124	DENIS, P. Y. J.	.	129
DAVLETSHINA, A. G.		124	DEPDOLLA, P.	.	129
DAVYDOFF, C.		124	DEREVITSKAYA, V. V.		129
DAWE, M. T.		124	DE SAUSSURE, H.	.	129, 384
DAWSON, G. M.		124	DESCAMPS, M.	..	129
DAY, M. F.		124, 125, 209, 228, 283, 333	DE SEABRA, A. F.		129, 392
DE, M. L.		125, 176, 350	DESSOLIERS, H.		129
DEAKIN, R. H.		125	DE STEEFANI PEREZ, T.		129, 418, 419
DEAN, A. A.	.	125	DETHIER, V. G.	.	129
DEAN, G. A.		125, 410	DE VILLIERS, F. J.		129, 461
DEAN, H. A.		125, 159	DEVINE, R. L.		46, 129, 376, 426
DEBAISSIEUX, P.	.	125	DEVINNY, V.		130
DEBAUCHE, H.	..	125	DE VRIES, A. H.		130, 465
DE BENEDICTIS, A.		50, 51, 125	DEXTER, J. S.		130
DE BORRE, P.	..	71, 125	DEZSÖ, Z.	.	130
DECKART, M.	..	125	D'HERCULAI, J. P. A. KÜN- CKEL (See KÜNCKEL D'HER- CULAI, J. P. A.)		130, 240
DECKER, G. C.		55, 125, 134, 428, 473	D'HÉRELLE, F.	.	130
DE COURSEY, J. D.	..	116, 125	DHIR, R. D.		130, 239
DEGENER, P.		125, 126	DIAZ, C.	..	130
DEGEER, C.		126	DIBBLE, C. B.	..	130
DEGROIS, M.		87, 126	DI CAIRANO, V.		89, 130
DEHN, M. VON		126	DICK, J.	..	130
DEI APELLE,—	..	126	DICKSON, H. R. P.	..	130
DELACROIX, M.		77, 126	DIEPHUIS, F.	.	130, 135
DE LA PEÑA, F.		126	DIESING, K. M.	..	131
DELIASSUS, M.		126, 127	DINGLER, M.	..	131
[DELEGACIÓN ARGENTINA, C. I. P. A.]		127			

D—contd.

	PAGE
DIRSCH, V. M. (<i>See</i> DIRSH, V. M.)	131
DIRSH, V. M.	4, 5, 131, 453
DI STEFANO, S.	131, 419
DIUKOV, M. N.	131, 156
DIVER, C.	132
DIVER, D.	132
DIXON, R. M.	132, 233
DMITRIEVA-YURGENSON, I. H.	132
DO BROSMUISLOV, D.	132, 282
DO BROVOLSKII, N. A.	132
DODD, A. P.	132
DODGE, C. R.	132
DODGE, G. M.	132
DOELLO JURADO, M.	132, 133
DÖNGINGK, A.	133
DONNELLY, U.	133
DÓNOHOE, H. C.	133
DOOLEY, T. P.	133
DORIA, L.	133
DOUENCE, A.	133
DOUGLAS, W. A.	133, 207
DOVNAR-ZAPALSKII, D. P.	133
DOVNAR-ZAPALSKII, D. P.	133
DOVNAR-ZAPOLSKII, O. P.	134
DOWELL, A. W.	134, 196, 315
DRAKE, C. J.	125, 134, 360, 428
DRESDEN, D.	134
DREYER, T. F.	134
DRILHON, A.	87, 134
DROOGMANS, H.	134
DROUET, H.	134
DRUMMOND-HAY, R.	.. 134
DUARTE, A. J.	134, 135
D., A. (DUBOIS, A.)	.. 120, 135
DUBOIS, R.	.. 135
DU BUISSON.	84, 135
DUCHÂTEAU, G.	135, 153, 175, 251, 384
DUCK, L. G.	.. 135
DUFOUR, L.	.. 135
DUGUID, J. F.	. 135, 201
DUIJM, M.	.. 135, 314
DUNCAN, F. M.	.. 135
DUNN, C. L.	.. 130, 135
DUNNING, J. W.	136

D—concl'd.

	PAGE
DU PLEISS, C.	136, 309, 327, 328
DUPONT, L.	136, 254, 495
DU PORTE, E. M.	136, 331, 455
D' URBAN, W. S. M.	136
DÜRING, B.	136
DÜRINGEN, B.	136
DUSPIVA, F.	136, 239
DUTT, G. R.	86, 136
DUTT, M. K.	136, 350
DVORNITCHENKO, M.	137
DVORTZOVA, F. I.	137, 237
DYMOND, G. C.	137
E	
[EALAND, C. A.]	137
[EASTERN PERSIA]	58, 137, 167, 265, 409, 420
EBERHARDT, G.	137
EBERLIN, G. W.	10, 137
EBNER, R.	137
ECKSTEIN, K.	137
[EDINBURGH, DUKE OF]	137
EDNEY, E. B.	137, 138, 228
EDWARDS, D. C.	58, 138
EDWARDS, G. A.	81, 138, 324, 380, 415
EFFLATOUN BEY, H. C.	138
EGGERS, F.	138
[EGYPT]	11, 15, 138, 141
EHARA, S.	138, 438
EIBEN, C. H.	138
EICHWALD, E.	138
EIG, A.	138
EISENTRAUT, M.	138, 139, 180
EITEL, W. J.	76, 139
ELLIS, M. N.	139
ELLIS, P. E.	139, 197
ELSE, F. L.	.. 139
ELSEE, H. J.	139
ELTON, C. S.	139
ELTRINGHAM, H.	95, 139
EL-ZOHEIRY, M. S.	41, 139, 289, 492
EMBERGER, L.	139, 275
EMEL' YANOVA, N. A.	140, 243, 262, 334
EMERSON, A. E.	.. 140

<i>E—concl'd.</i>		<i>F—cont'd.</i>	
	PAGE		PAGE
EMERSON, D. B.	140, 207, 439	FÉLIX, J.	148
ENG, R. L.	140	FELT, E. P.	148
ENGELHARDT, V. M.	140	FENARD, A.	148
ENGLEMANN, W.	14, 96, 140	FENTON, F. A.	148, 388, 420, 469, 478
ERGENE, S.	140, 141	FERMO,—	148
[ERITREA]	138, 141, 423	FERNÁNDEZ, A.	148
ERKILIC, S.	141, 142, 429	FERNÁNDEZ, F. J.	148, 149
ESTÈVE, G.	142, 270	FERNÁNDEZ, M.	149
[ESTHONIA]	142	FERREIRA LIMA, A. D.	149, 385
ETCHEGARAY, P.	142	FERREL, C. N.	149, 191, 437
[EUROPE]	9, 10, 13, 15, 27—29, 142, 155, 156	FERREYRA, A.	149
EVANS, B. H.	117, 143	FERRIÈRE, C.	149
EVANS, E. J.	143	FERRIS, G. F.	149
EVANS, I. B. P.	143	FERTON, C.	149
EVANS, J. W.	143	FESSARD, A.	37, 149, 150
EVANS, T. C.	46, 143, 144, 226, 392	FEY, K. Y.	150
EVERETT, G. M.	144	FEYTAUD, J.	150
EVERLY, R. T.	144	FICHTELBERGER, M.	10, 150
EVERSMANN, E.	144	FICHTER, E.	150
EVERSTROPOV, E.	144	FICKENDEY, E.	83, 150
EVLAKHOVA, A. A.	144	FIEBER, F. X.	150
EWER, D. W.	144, 362	FIGUIER, L.	150
EWER, D. W. S..	73, 144	FILATOV,—	150, 225
EWING, H. E.	145	FILIP'EV, I. N.	150
EXNER, S.	145	FILIPJEV, I. N.	150, 151
	F	FINLAYSON, T. U.	151, 410
FABER, A.	145	FINOT, A.	70, 151
FABER, J. C.	145	FIRTH, J.	151
FACK, M. W.	145	FISCHER, C. E. C.	151
FAL'KENSTEIN, B. YU.	49, 145	FISCHER, G.	151
FANTHAM, H. B.	145, 146	FISCHER, H.	151
FANTOLI, A.	146	FISCHER, J. B.	151
FARQUET, P.	146	FISHCHER, L. H.	151
FARQUHARSON, R. A.	146	FISCHER, R.	151
FARRAR, M. D.	55, 146, 153	FISCHETTI, D. L.	152
FARSTAD, C. W.	146, 213	FITCH, E. A.	152, 384, 470
FAURE, G. O.	146	FITZGERALD, L. R.	65, 66, 152
FAURE, J. C.	146—148, 272, 461	FLETCHER, T. B.	152, 153
FAUSSEK, V.	148	FLINT, W. P.	55, 146, 283
FAUVEL, A.	148	FLORKIN, M.	135, 153, 175, 251, 384
FEDOROV, S. M..	148	FLOYD, E.	10, 153
FEDTCHENKO, B. A.	148	FODOR, P. J.	153
FEHR, H.	148	FOLSOM, J. W.	153
		FONTAINE, M.	153, 286

F— <i>contd.</i>	PAGE	F— <i>concl.</i>	PAGE
[FOOD AND AGRICULTURAL ORGANISATION OF THE UNITED NATIONS]	153	FRIVALDSKY, J.	158
FORD, A. L.	153, 154, 247	FRIZA, F.	158
FORD, J. H.	154, 185, 475	FROESCHNER, R. C.	.. 158
FORD, NORMA	154	FROGGATT, W. W.	158
FORMOZOV, A. N.	154	FRUHSTORFER, H.	158
FORSKAL, P.	10, 154	FRY, H. J.	158
FORTESCUE-FOULKES, J.	154	FUKUDA, K.	158, 413
FOSTER, M. E.	154, 301	FULLER, M. E.	158, 159
FOWLER, W. W.	154	FULLER, R. A.	159, 340, 361, 416
FOX, C. J. S.	154, 420	FULTON, B. B.	159
FOX, H.	.. 154	FUSCHINI, C.	159
FOX, W. B.	154	FUSITA, K.	.. 22, 159, 198
FRACKER, B. S.	.. 154, 181	G	
FRANKEL, G.— <i>See</i> FRAENKEL, G.	154	GABE, M.	159
FRAENKEL, G.	154, 155, 177, 378	GABLE, E. H.	159
FRAGOSO VIANA, P. A.	155	GAGNIÈRE, S.	159
[FRANCE]	13, 16, 142, 155, 156	GAINES, J. C.	.. 125, 159, 184
FRANKLAND, A. W.	156	GALAKHOV, P. N.	.. 159, 317, 466, 490
FRANTZI, A. M..	131, 156	GALLARDO, A.	.. .. 159
FRANZ, H.	156	GALLAWAY, H. E.	160
FRANZ, J.	156	GALLO, D.	160, 264
FRAPPA, C.	83, 156, 157, 429	GALLWITZ, U.	39, 160
FRASER, W. R.	157	GAL'PERSHTEIN, Y. M.	160, 295
FRAUENFELD, G. R. VON	157	GALVAGNI, A.	160
[FRENCH AFRICA]	19, 157	[GAMBIA, AFRICA]	.. 160
FRENCH, C.	157	GÁNDARA, G.	160
[FRENCH DELEGATION]	155, 157	GARAVINI, G.	160, 316
[FRENCH WEST AFRICA]	19, 157	GARCIA, R. MERCET.	160
FRERS, C.	157	GARDNER, E.	.. 160, 191
FRESA, R.	.. 99, 157, 274, 454	GARDOJEVIC, M.	.. 160
FREULON, J. M.	157, 251	GARMAN, H.	160, 279
FREY, R.	.. 157	GASTÓN, J.	.. 160
FREY-GESSNER, E.	157	GASVODA, J. D.	160, 426
FRIAS, D.	92, 157	GAUD, M.	.. 161
FRIAUF, J. J.	157	GAULDEN, M. E.	.. 93, 96, 122, 161, 187, 264, 297, 308, 397, 433
FRIEDERICH, H.	.. 157	GAUSE, G. F.	161, 162
FRIEDLER, L.	158, 409	GAVRILOV, K.	162, 311
FRINGS, H.	158	GEIST, R. M.	162
FRINGS, M.	.. .. 158	GEITLER, L.	162
FRIPP, H. E.	158	GENIN,—	.. 70, 162
FRTZ, A.	158	GERASIMENKO, L. R.	.. 162
FRTZ, R. F.	.. 158, 479	[GERMANY]	13, 16, 162
FRIVALDSZKY, J.— <i>See</i> FRIVALDSKY, J.	158		

G—contd.			G—contd.		
		PAGE			PAGE
GERNET, E. VON	.. ..	162	GOLDSMID, F. J.	.. ..	137, 167
GERSANHIK, R.	.. ..	162, 381	GOLOVIZIN,—	.. ..	167, 312, 438
GERSTÄCKER, A.	.. ..	162	GOLTZMAIER,—	.. ..	167
GEUBEL, H. K.	.. ..	162	GONCHAROVA, A. A.	.. ..	167
GEYER, J. W.	.. ..	163	GONZALES, S. S.	.. ..	167
GHADIMI, D.	.. ..	163	GOODRICH, J. P.	.. ..	62, 167
GHANI, M. A.	.. ..	163, 228, 248	GOODWIN, T. W.	.. ..	168, 416
GHOSE, S. K.	.. ..	163, 186, 333	GORDON, A.	.. ..	168, 169
GIANNOTTI, O.	.. ..	163, 252, 312	GÖRTLER, A.	.. ..	169
GIARD, A.	.. ..	163	GOSECO, F. P.	.. ..	169
GIARDINA, A.	.. ..	163	GOSS, R. W.	.. ..	169
GIBSON, A.	.. ..	163	GOUGH, L. H.	.. ..	169, 281
GIERSBERG,—	.. ..	163	GOULD, B. A.	.. ..	169
GIGLIO-TOS, E.	.. ..	163, 164	GOUREVITCH, A.	.. ..	169
GIJITZKY, V.	.. ..	164	GOYTIA, A.	.. ..	169
GILBERT, H. A.	.. ..	164	GRABER, V.	.. ..	169—171
GILBERTSON, G. I.	.. ..	164, 395	GRADOJEVIC, M.	.. ..	171
GILLIN,—	.. ..	164	GRAHAM, C.	.. ..	114, 171
GILMOUR, D.	.. ..	164	GRAHAM, J. F.	.. ..	171, 177
GINES, R. B.	.. ..	164, 438	GRAHAM, P.	.. ..	171
GINTER, O.	.. ..	164	GRANATA, L.	.. ..	171
GIORDANI SOIKA, A.	.. ..	164	GRANFIELD, C. O.	.. ..	172
GIOVÈNE, G. M.	.. ..	164	GRANOVSKY, A. A.	.. ..	172
GIRAL, F.	.. ..	164, 165	GRANT, G. R. M.	.. ..	172
GIRAL, J.	.. ..	164, 165	GRASSÉ, P. P.	.. ..	3, 172, 195
GIRAL, M. L.	.. ..	164, 165	GRAVELY, F. H.	.. ..	172
GIRARD, M.	.. ..	165	GRAY, E. L.	.. ..	173
GIRARDI, J.	.. ..	165	GRAY, J.	.. ..	173
GIRAULT, A. A.	.. ..	165	GRAYSON, J. M.	.. ..	173, 428
GIRONI, G.	.. ..	165	[GREAT BRITAIN]	.. ..	15, 16, 173—174
GISLÉN, T.	.. ..	165	GREBEN'SHCHIKOV, O.	.. ..	174
GLANVILLE, R. R.	.. ..	166	GRECA, MARCELO LA	.. ..	174, 175
GLASER, R. W.	.. ..	166	GREEN,—	.. ..	175
GLASGOW, R. D.	.. ..	166	GRÉGOIRE, C.	.. ..	135, 153, 175
GLEASON, H. A.	.. ..	166, 168	GRENACHER, H.	.. ..	175
GLEDITSCH, J. G.	.. ..	166	GRIFFITH, A. L.	.. ..	175
GLEN, R.	.. ..	52, 166, 230, 281, 321	GRIFFITHS (Jr.) J. T.	.. ..	175, 176, 230, 431
GLOUSTON, D.	.. ..	166	GRIMSHAW, P. H.	.. ..	44, 108, 176
GLUSCHENKOV, N.	.. ..	166, 261	GRÜNDLER, G. A.	.. ..	176
GLWZÍNSKI, J.	.. ..	166	GRUNERT,—	.. ..	176
GOCO, A.	.. ..	166	GRUVEL, A.	.. ..	106, 176
GODOY, E. F.	.. ..	166	GUAITA, G. VON	.. ..	176, 325
[GOLD COAST]	.. ..	166	GUARINO, O.	.. ..	176
GOLDFUSS, FR	.. ..	166	[GUATEMALA, CENTRAL AME- RICA]	.. ..	176
GOLDING, F. D.	.. ..	167			

G—concl'd.

	PAGE
GUCHARD, K. M.	176
GUEDES, G.	176
GUERRIER, Y.	96, 176
GUEST, E.	176
GUEUTAL, J.	176
GUHA, A.	125, 176, 349—350
GUICHARD, A.	176
GUIGNON, G.	176
GUILLAUME, S.	.. 176
GUILLEMET, P.	.. 177
[GUINEA]	177
GUNN, D. L.	.. 72, 89, 107, 123, 155, 171, 177, 178, 199, 204, 217, 249, 263, 324, 395, 429, 470, 484, 486
GÜNTHER, A.	115, 178
GÜNTHER, K.	178
GUPTA, B. D.	39, 178
GUPTA, R. L.	178, 348
GUPTA, V. K.	40, 178, 272, 402
GURDIAL SINGH	179, 402
GURNEY, A. B.	179
GURNEY, W. B.	.. 179
GUYER, M. F.	179
GUYON,—	179, 180
GWYNN, A. M.	180, 181
GYRISCO, G. G.	180, 275, 298

H

H., C. W.	180
HAAN, W. DE	180
HAAS, L. E.	180, 360
HAASE, E.	180
HACKMAN, R. H.	180, 338, 433
HADLEY, C. H.	180, 192
HAECKER, V.	138, 180
HAGEMAN, D. C.	180
HAGEN, H.	180
HAGEN, H. A.	180, 393
HAGMEIER, A.	180
HANN, C. W.	180
HAHN,—	180
HAIJ, B.	181
HAINES, G. C.	181
HALDANE, J. B. S.	181

H—cont'd.

	PAGE
HALL, H. C. V.	181
HALL, M. C.	181
HALL, T. D.	181, 430
HALLAGE, R.	181
HALLBERG, F.	58, 181
HAMBLETON, E. J.	154, 181
HAMBLETON, J.	181
HAMILTON, A. G.	.180, 181, 182, 286, 453
HAMILTON, H. L.	182
HAMILTON (Jr.), W. J.	182
HAMMERTON, J.	182
HAMMOND, E. C. ..	182
HANCOCK, J.	182
HANCOCK, J. L.	182, 183
HANDFORD, R. HI.	.101, 183, 184, 339, 340, 409
HANDLIRSCH, A.	184
HANNA, R. L.	159, 184
HANNON, J.	184
HANSON, H. C.	108, 184, 471
HANSON, W. J.	184, 234, 429
HANSTROM, B.	184, 185
HAQ, A.	36, 185, 247, 248
HARDENBERG, B.	185
HARDY, J. E.	154, 185, 475
HARGEAVES, E.	185, 186
HARGREAVES, H.	186
HARIHARAN, P. S.	163, 186, 333
HARMAN, MARY T.	186
HARMSTON, F. C.	187, 234
HAROON KHAN, M.	187, 228
HARPER, R. W.	187
HARRINGTON, N. G.	93, 161, 187
HARRINGTON, N. J.	187, 237
HARRIS, W. V.	187
HARRISON, E.	187, 188
HARRISON, J. V.	188
H. G. HARTING, P.	188
HART, C. A.	166, 188
HARTLINE, H. K...	188
HARTMAN, Fr. A.	188
HARTWIG, N.	.188, 247, 301
HARTZELL, A.	188
HASKELL, P. T.	188
HASSALL, A.	188, 420

H—contd.		H—contd.	
	PAGE		PAGE
HASSELQUIST, F.	189	HIXSON, E.	192, 193
HASSIBI, S.	37, 189	HOCKING, B.	193
HASTINGS, E.	42, 108, 189, 218, 323	HODGE, C.	193
HAUKE, H. A.	189	HODGE (4TH), C.	193
HAUSER, G.	189	HOEFKE, R.	193
HAUVEL, C.	189	HOEFLER, P. L.	193
HAVILAND, MAUD D.	189	HOERNER, J. L.	193, 246, 262
HAYDAK, M. H.	189	HOFFMAN, R. A.	193, 376
HAYES, W. P.	116, 189	HOFFMANN, C. C.	121, 194, 455
HAYWARD, K. J.	189	HOFFMANN, B.	194
HEAPE, W.	189	HOFMEIER, H. K.	194
HEARNE, R. M.	189, 201	HOGAN, T. W.	194, 404
HEATH, R. H.	189	HOLBROOK, F.	194
HEBARD, M.	189, 190, 355	HOLLAENDER, A.	93, 194, 411
HEBENSTREIT, J. P.	10, 190	HOLLANDE, A. C.	172, 194, 195, 293
HEBERDEY, R. F.	190	HOLM, B.	195
HEINTZ, E.	190	HOLMES, C. E.	195, 483
HELWIG, E. R.	190, 191	HOLMES, V. B.	195, 196, 478
HENDERSON, W. W.	160, 191	HOMBRES-FIRMAS, L. D'	195
HENDRICKSON, G. O.	191	HOME, E.	195
HENDRICKX, F. L.	191	HOPF, H. S.	70, 195, 196
HENEGUY, F.	191	HOPKINS, G. H. E.	196
HENRY, G. M.	191	HOPKINS, J. C. F.	196
HEPPER, H. C.	191	HOPPER, T. H.	196
HERBER, E. C.	191, 404	HORNE, C.	196
HERBERER, G.	191	HORNER, W. H.	195, 196, 478
HERD, W. E.	191	HOROVITZ, S.	196, 274
HERKENHAM, N. B.	149, 191, 437	HORSFALL, W. R.	134, 196, 315
HERMAN, O.	192	HOSKINS, W. M.	116, 196
HERNANDEZ, A.	192	HOULBERT, C.	196
HERRICK, G. W.	180, 192	HOUTTUYN,—	196, 421
HERS, J.	192	HOWARD, C. W.	196
HERTER, K.	192	HOWARD, L. O.	196
HERTZ, M.	192, 204	HOYLE, G.	96, 139, 197, 268
HEYMON, R.	192	HOYLE, S. T.	197, 286
H. G.—see HARTING, P.	188, 192	HSÜ, F.	197
HEISTAND, W. A.	192	HSU, K. T.	197
HILL, D. L.	66, 192, 425	HSU, T. C.	197
HILL, L.	192, 429	HUARD, P.	197
HILL, R. E.	192, 193	HUBBELL, T. H.	90, 197, 467
HINGSTON, R. W. G.	192	HUBER, W.	197
HINMAN, E. J.	192	HUDSON, GERDA, B.	198
HINTON, H. E.	193	HUDSON, W. H.	198
HIRSCHLER, J.	193	HUERGO, R. J.	198
HIRST, S.	193	HUGHES, G. M.	198
		HUGO,—	198

H—concl'd.		I—concl'd.	
	PAGE		PAGE
HUIDOBRO, L.	198	[INDIA, MADRAS PRESIDENCY]	206
HUKUSIMA, S.	22, 159, 198, 438	[INDIA, MYSORE]	206
HUMPHREY, G. F.	198, 199, 364, 400	[INDIA, SIND]	207
HUNT, H. A.	199	[INDIA, UNITED PROVINCES]	207
HUNTER, J. S.	199	INGENITSKII, I. V.	207
HUNTER-JONES, P.	178, 199	INGRAM, J. W.	133, 207
HUNTINGTON, E. C.	199	INNES, J. M.	88, 207
HURTIG, H.	78, 199	INNES, BEY, W.	207
HURTING, H.	199	[INSTITUTE INTER-NATIONAL D'AGRICULTURE, ROME]	207
HUSAIN, M. A.	21, 45, 54, 199, 201, 277, 368, 372	[INTERNATIONAL]	.. 31—33, 207, 208
HUSBAND, A. D.	135, 201	INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMEN- CLATURE.	208
HUSKINS, C. L.	189, 201	INTERNATIONAL INSTITUTE OF AGRICULTURE, ROME.	208
HUSSAINY, S. A.	201	INTERNATIONAL LOCUST CONFERENCE, PROCEED- INGS, ETC.	208, 209
HUSSEIN, M.	201, 202, 289	INTERNATIONAL RED LOCUST CONFERENCE, NORTHERN RHODESIA.	209
HUSSEY, P. B.	202	[IRAN]	31, 137, 209
HUTCHINGS, C. B.	202	[IRAQ]	209, 443
HUTSON, J. C.	202	IRVINE, H. G.	209, 437
HUTSON, R.	202	IRZYKIEWICZ, H.	124, 209, 333
HUTTON, F. W.	203	ISAAC, P. V.	209
HUXLEY, J.	.. 203	ISELY, D.	209, 262
HUZAYYIN, S. A. S.	203, 430	ISELY, F. B.	22, 209, 210
HWANG, CHUANG-CHIANG	203, 263	ISHII, T.	210, 485
HYNES, H. B. N.	203	ISOLDI, R.	210
		ISSAAKIDES, C. A.	210
I		[ISTRIA]	210
IGLESIAS, L.	203	[ITALIAN SOMALILAND]	210, 412
IKEDA, S.	203	[ITALY]	13, 16, 210
ILCHEV, D.	203	[ITALY, ISTRIA]	210
IL'ENKO, M. I.	203	ITIKAWA, T.	210
ILERI, M.	203, 211	ITO, HIROWO [PROBABLY SAME AS ITOH, H.]	210
ILJENKO, M. I.	.. 203, 204	ITO, H. [PROBABLY SAME AS ITO, H.]	210
ILINSKII, A. M.	204	IVANOV, E. N.	210, 211, 253, 415, 490, 492
ILJENKO, M. I.	203, 204	IVANOVA, S. A.	211
IMMELMAN, A.	204	IVANOVA, T. S.	211
IMMS, A. D.	.. 192, 204	IVANOV-BERG, M. M.	211
IMPERIAL ENTOMOLOGICAL CONFERENCE (3RD) LONDON	188, 204 219, 230, 416, 446	IWAOWA, S. A.	211
IMPERIAL ENTOMOLOGICAL CONFERENCE (4TH) LON- DON	204	IYRIBOZ, N.	203, 211
INAFU, S.	204		
INAMURA, S.	205, 397, 413		
[INDIA]	9, 13, 15, 30—33, 205, 206		
[INDIA, BOMBAY PRESIDENCY]	206		

J		PAGE	J—concl'd.		PAGE
J., E.	.. ..	211	JONES, F. M.	.. ..	220
JABLONOWSKI, J.	.. ..	211	JONES, G. D.	.. ..	220
JACK, R. W.	.. ..	211, 212	JONES, J. C.	.. ..	220
JÄCKEL, A. J.	.. ..	212	JONES, M. F.	.. ..	220
JACKSON, E. F.	.. ..	213	JONES, S.	.. ..	220
JACKSON, F. K.	.. ..	213	JONES, V.	.. ..	220
JACOB, H.	.. ..	213	JÖRSCHKE, H.	.. ..	220
JACOBS, W.	.. ..	213	JOSHI, G. D.	.. ..	221
JACOBSON, G. G.	.. ..	55, 213	JOUBERT, M. J.	.. ..	221
JACOBSON, L. A.	.. ..	146, 213	JOUBERT, R.	.. ..	221, 428
JACOT-GUILLARMOD, C. F.	.. ..	147, 213	JOVANCIC, L.	.. ..	221
JAHN, T. L.	.. 110, 118, 213, 214, 234, 428, 485		JOVER, H.	.. ..	76, 221, 271
JAKOVILEV, V.	.. ..	214, 239	JOYCE, R. J. V.	.. ..	221
JAMES, M. T.	.. ..	215	JUDD, W. W.	.. ..	221
JAMIESON, A.	.. ..	215, 351	JUKOVITS, A.	.. ..	221
JANES, M. J.	.. ..	215, 234	JUNGIUS, J.	.. ..	221
JANNONE, G.	.. ..	215—217	JUSTELL,—	.. ..	221
JANSENS, F. A.	.. ..	217	JUSTER, C.	.. ..	221
JANSON, O. E.	.. ..	217			
JAQUES, E. C.	.. ..	171, 177, 217, 324, 395, 429, 470, 484	K		
JARVIS, E.	.. ..	217	KACHAEVA, Z. F.	.. ..	222, 378
JATZENTKOVSKY, E. V.	.. ..	217, 485	KADEZEVITCH, I. S.	.. ..	222
JAUCH, C.	.. ..	217, 311	KAGY, J. F.	.. ..	222
JAZIKOV, A. A.	.. ..	217, 486, 490	KALINICHEV, P. A.	.. ..	222, 398
JEFFREY, E. C.	.. ..	217	KALSHOVEN, L. G. E.	.. ..	222
JENKINS, C. F. H.	.. ..	217, 218	KAMEL BEY, M.	.. ..	222
JEPSON, W. F.	.. ..	218	KAMINSKY, E.	.. ..	222
[JERUSALEM]	.. ..	218	KANO, K.	.. ..	222
JETZEN, P.	.. ..	218	KAPUR, S. S.	.. ..	222
JHINGRAN, V. G.	.. ..	218	KAPUSCINSKI, S.	.. ..	222
JOAN, T.	.. ..	218	KARABAG, T.	.. ..	222
JOHANNSEN, O. A.	.. ..	88, 218	KARANDIKAR, K. R.	.. ..	223
JOHNSON, G.	.. ..	218	KARGANILLA, L. T.	.. ..	223, 313
JOHNSON, H. H.	.. ..	218	KARNY, H. H.	.. ..	223, 224
JOHNSON, L. H.	.. 42, 108, 189, 218, 243, 323		KARSCH, F.	.. ..	224
JOHNSON, M. W.	.. ..	218	KATIIYAR, K. N.	.. ..	224
JOHNSTON, H. B.	.. ..	88, 219, 278	KATÔ M.	.. ..	224
JOHNSTON, W. C.	.. ..	119, 219	KATÔ, S.	.. ..	224
JOLLY, L.	.. ..	220	KATSUMATA, K.	.. ..	224, 308
JOLLY, P.	.. ..	220	KAWALL, J. H.	.. ..	224
JONES, C. R.	.. ..	42, 220	KAWAMURA, KEN'YA	.. ..	224, 225
JONES, E. P.	.. ..	220	KAYLASAM, M. S.	.. ..	225
JONES, E. R.	.. ..	220, 268	KAYUDIN, —	.. ..	150, 225
			KEARNS, C. W.	.. ..	225, 420
			KEIFER, H. H.	.. ..	225, 483

K—contd.		PAGE
KELLOG, C. R.	..	.97, 225
KELLOG, V. L.		112, 225
KELLY, E. O. G.		225
KEMP, H. J.	..	225, 230, 460
KENDREW, W. G.	..	225
KENNEDY, J. S.	..	22, 46, 225, 226, 327, 434
KENT, C. C.		226, 283
KENTISCH, H.	..	226
KEPPEN, F. P.	..	.. 226
KERR, H. D.		143, 226
KERSHAW, J. C.	..	.. 226
KEVAN, D. K. MCE.		226, 227, 233
KEY, K. H. L.		125, 137, 227 228
KHACHAPURIDZE, N.		228
KHAN, A. W.		163, 228, 248
KHAN, M. HAROON.	..	.. 228
KHAN, M. S.	..	21, 228
KHARIN, S. A.		228, 229, 401
KHLAMOV, V. V.		229
KILBY, B. A.	..	73, 229
KIMURA, Y.		229
KINCH, E. A.		229
KIND, D.		229
KING, G.		229
KING, H. H.		47, 229, 230, 380
KING, J. R.		175, 176, 230, 431
KING, K. M.		52, 166, 225, 230, 231, 281, 321, 339, 428, 460
KING, R. L.		45, 46, 231, 404, 407
KINGSLEY, L. L.		231, 301
KIRBY, W. F.		5, 231, 232
KIRBY, W.		232, 415
KIRCHMAJER, G. C.		10, 232
KIRICHENKO, A.		232
KIRSCHBAUM, C. L.		232
KISHIMOTO, W.		232, 287
KITAO, Z.		232
KITCHING, R. A.		232
KITSELMAN, C. H.		17, 121, 232
KITTARY, M.		232
KLATTER, F.		232
KLEINFELD, R.	..	232, 424
KLEINMAN, L. W.	..	232

K—contd.		PAGE
KLEMM, M.	..	232
KLINGSTEDT, H.		232, 233
KLINTWORTH, H.	..	72, 233, 273, 285
KNAB, F.		233
KNECHTEL, W. K.		233
KNIGHT, J. B.	..	132, 233
KNIPPER, J. H.	..	227, 233
KNOWLTON, G. F.	..	184, 187, 215, 233, 234, 413, 429, 432, 454
KNOX, A.		234
KNUTSON, N.		234
KOBAKHIDZE, D. N.		234
KOBAYASHI, H.	..	234
KOCHI, C.	..	112, 234
KOEBELE, A.	..	234
KOEHLER, P.		234
KOEL, B. S.		214, 234
KÖEPPEN, Fr. Th.		235
KOEPPE, P.		235
KÖHLER, P.		235, 263
KOIDSUMI, K.		235
KOIZUMI, K.		235
KOLBE, H. J.		236
KOLLAR, V.		236, 351
KOLLER, G.		236
KOLOSSOV, J. M.	..	.. 236
KÖPPEN, Fr. Th.	..	.. 235, 236
KÖPPEN, P.	..	.. 235, 236
KORDA, F. H.		236, 359
KORIGAWA, K.		236, 426
KOROTKIKH, A.		236
KOROTKIKH, G. I.		236
KORSCHULT, E.		236
KÖRTE, F.		236
KOTSCH, R. VON.		237
KOWALEWSKY, A.	..	.. 237
KOZA, R. W.		187, 237
KOZHANCHIKOV, I. V.	..	.. 237
KOZHANCHIKOV, I. W.	..	.. 237
KOZLOVA, E. N.	..	.. 137, 237
KOZMINSKI, Z.		238
KRASILISHCHIK, I. M.		238
KRAUS, R.		238, 245, 269, 293
KRAUSE, G.	..	.. 238

K—concl'd.		PAGE	L—cont'd.		PAGE
KRAUSS, .	.. ..	238	LA GRECA, M.	.. ..	244
KRAUSS, H.	.. ..	238	LAHILLE, F.	.. ..	238,244, 245,269,293
KREPS, E. M.	.. ..	102,238	LAIKD, A. K.	.. ..	245
KRIPYAKEVICH, I.	.. ..	238	LAL, K. B.	.. ..	245,246
KRISHNAMURTI, B.	.. ..	33,239	LALLEMANT, M. C.	.. ..	246,393
KRISHNAMURTHY, K. V.	.. ..	130,239	LALLEMANT, C.	.. ..	21,122,246
KROGH, A.	.. ..	239,474	LAMBORN, W. A.	.. ..	246
KRÖNING, F.	.. ..	239	LANGFORD, G. S.	.. ..	85, 193,246,247
KRÜGER, F.	.. ..	214,239	LANGLOIS, C.	.. ..	242,247
KRÜGER, G.	.. ..	136,239	LAPAZARAN, Y BERISTAIN, J. C.		247
KUFFERATH, M. H.	.. ..	239	LAPP, C.	.. ..	247,367
KUITERT, L. C.	.. ..	112,239	LAPPIN, G. I.	.. ..	247
KUK-MEIRI, S.	.. ..	239,255,399	LARGE, E. C.	.. ..	247
KULAGIN, N. M.	.. ..	240	LA RIVERS, I.	.. ..	247
KULIK, A. A.	.. ..	33,240	LARRIMER, W. H.	.. ..	153,154,247
KUMAR, B.	.. ..	240,333	LARSON, I.	.. ..	188, 247,301,380
KUMASHIRO, S.	.. ..	240	LATIF, A.	.. ..	36,99,163, 185,228,247,248
KUNASHEVA, K. G.	.. ..	240	LATRIELLE, P. A.	.. ..	248
KÜNCKEL D'HERCULAIS, J.P.A.	.. ..	240, 241,242,247	LAVOPIERRE, M.	.. ..	248
KUNDMANN, J. C.	.. ..	242	LAWRENCE, R. F.	.. ..	248
KUNHIKANNAN, K.	.. ..	110,242,243	LAZAREVIC, B.	.. ..	248,322
KÜNSTLER, G. A.	.. ..	243	LEA, A.	.. ..	248, 249,308,471
KUPFFER, K. R.	.. ..	243	LEA, A. M.	.. ..	249
KUROKAWA, H.	.. ..	243	LEA, H. A. F.	.. ..	177,249,281
KUWAYAMA, S.	.. ..	243,313	LEAN, O. B.	.. ..	249,250
KUZINA, O. S.	.. ..	140, 243,262,334	LEBEDEV, F. N.	.. ..	250
KUZNETZOV, P. N.	.. ..	243	LEBEDEVA, E. A.	.. ..	250
KUZNETZOVA, E. A.	.. ..	243	LE BERRE, J. R.	.. ..	250
KYD, S.	.. ..	243	LECLERCQ, J.	.. ..	135,153,251
KYL, G.	.. ..	243	LE CONTE, J. R.	.. ..	251
	L		LEDERER, E.	.. ..	251,338
L, H. M.	.. ..	243,251	LEE, M. O.	.. ..	251
LAAKSO, J. W.	.. ..	218,243	LE-FEUVRE, R. F.	.. ..	251,351,485
LA BAUME, W.	.. ..	244	LEFRANCE, J. P.	.. ..	157,251
LABEYRIE, V.	.. ..	97,244,330,366	LEFROY, H. M.	.. ..	88,251,276
[LABORATORIO ACRIDOLOGIA.]	CENTRAL DE	244	LEGER, L.	.. ..	251
LABOULBÉNE, A.	.. ..	244	TT, W. H.	.. ..	251
LACAZE-DUTHIERS,—	.. ..	244	LEHMAN, A. J.	.. ..	252
LACCI V.	.. ..	244	LEIDIG, F.—See LEYDIG, F.		252,255
LA COUR, L.	.. ..	244,383	LEIDY, J.	.. ..	252
LAGAUDE, V.	.. ..	53,244	LE, MASNE, G.	.. ..	252

L—contd.	PAGE	L—concld.	PAGE
LEMEE, C.	252	LISANTI, A.	262
LEMMON, J. G.	252	LISITZUINA, L. N.	140, 243,262,334
LEONARDI, G.	252	LIST, G. M.	193,262
LEONE, C. A.	252	LITTLE, A.	262
LEONE, G.	252	LIU, CHI-YING.	255,262
LEONHARDT, W.	252	LIU, CHUNG-LO.	.. .. 262
LEPAGE, H. S.	163,252,312	LIU, KWO-SI.	.. .. 203,262,263
LEPESHKIN, S. N.	211, 252,253,415,490,491	LIVETT, H. W.	.. .. 263
LEPESME, P.	.. 253,457	LIZER Y TRELLES, C. A.	.. 58, 235,263,273
LEPIGRE, A. L.	.. 253	LLOYD, D. C.	.. .. 263
LÉPINEY, J. DE.	136, 253,254,286,495	LLOYD, J. H.	.. .. 123,178,263
LERMA, B. DE.	127,254	LOAG, J.	.. .. 83,263
LESNE, P.	254	LÖBER, C. H.	.. .. 10,264
LESPE, L.	254,351,379	LÖBER, S.	.. .. 264
LEUCKART, R.	254	LOCKWOOD, S.	.. .. 264
LEVAILLANT, J.	.. 254	LOEMKER, K.	.. 122,161,264
LEVAN, A.	255,433	LOGOTHETIS, C.	.. .. 264
LEVAN, R. W.	255	LOHER, W.	.. .. 87,264
LEVENBOOK, L.	107,255	LOKSA, I.	.. .. 41,264
LEVKOVICH, G. G.	255	LONG, D. B.	.. .. 264,481
LEWIN, C. J.	255	LONG, W. M.	.. .. 264
LEWIS R. R.	255,435	LOPEZ, A. W.	.. .. 264
LEYDIG, F.	255	LORDELLO, L. G. E.	.. 160,264
L' HERITIER, A.	255,394	LOUIS-DOP,—.	.. .. 264
LI, CHIEH SZE.	255,425	LOUNSBURY, C. P.	.. 264,265,414
LI, JU, CHI	255	LOVETT, B.	.. .. 137,265
LI, SHOU-SING.	255,262	LOZZIA, G.	.. .. 265
LIBONATI, V. J.	255	LU, H. T.	.. .. 102,265
LICHTENSTEIN, J.	.. 255	LU, K. H.	.. 66,67,265,475
LICHTENSTEIN, N.	60, 239,255,399	LUBBERN, M.	.. .. 265
LIEBERMANN, J.	15,256— 261,327,378,387	LUCAS, F. F.	.. .. 266,418
LIENHART, R.	261	LUCAS, H.	.. .. 266
LIGNIERS, J.	261	LUCAS, W. J.	.. .. 266
LILLY, J. H.	261	LUCRETIUS, G. DE.	.. .. 266
LIMOENKOV, L.	166,261	LUDMER, N.	.. .. 266
LINCOLN, C.	209,262	LUDOLF, J.	.. 10,266
LINDEGG, G.	262	LUDWIG, D.	.. .. 266
LINK, E.	262	LUGARD, W. J.	.. .. 266
LINNAEUS, CARL V.	262	LUKIANOVITCH, F. K.	.. .. 266
LINNÉ, CARL, V.	.. .10,262	LUNARDONI, A. ..	.. .. 266
LINSTOW, O.F.B. VON.	262	LUTZ, F. E.	.. .. 267
LIPINSKI, M.	.. .. 262	LUZIAU, R.	.. .. 267
		LYNCH ARRIBÁLZAGA, E.	.. 267

M	PAGE
M, [FRÉD.]	267
M., J.	267
MA, TSING-CHAO.	267
MACAULEY, S. A.	267
MAC CUTCHEON, F. H... .. .	267
MACHIDA, J.	268
MACHNE, X.	96,197,268
MACHT, D. I.	268
MAC KAY, D. A.	268
MACKENZIE, J. M. D.	268
MACKIE, D. B.	220,268
MAC LAGAN, D. S.	268
MAC LEAY, W. S.	268
MACNAY, C. G.	268,269
[MADRAS PRESIDENCY, INDIA.]	206,269
MAGGIO, C. A.	238, 245,269,293
MAGNAN, A.	269,324
MAHABALÉ, T. S.	36,269
MAIL, G. A.	269
MAIRE, R.	269,292
MAKALOVSKAYA, V. N.	269
MAKALOWSKAJA, W. N.	269
MAKARIAN, M. J.	269
MAKARJAN, M. I.	269
MAKARYAN, M. A.	269
MAKHOTIN, A. A.	269
MAKI, T.	269
MAKINO, S.	36,270,291,307
MAKOU, G.	270
MALAN, D. E.	270
MALAN, D. J.	270
[MALAYA.]	270
MALBRANT, R.	142,270
MALDONADO BRUZONE, R.	270
MALENOTTI, E.	270
MALINOWSKI,—	270
MALJTZEV, M. V.	270,271
MALLAMAIRE, A.	271,363
MALLOCH, J. R.	271
MALLY, C. W.	271
MALMANN, R. DE.	76,221,271
MALOEUF, N. S. R.	271
[MALTA.]	271
MAL'TZEV, M. V.	271

M—contd.	PAGE
MAMAEV, K.	271,276
MAMET, R.	271
MANDERS, N.	272
MANGOLD, E.	272
MANI, M. S.	40,178,272,402
MANN, H. H.	85,272,471
MANNA, G. K.	272,350
MANRIQUE, J. C.	272
MANSFIELD-ADRES, W.	272
MANUNTA, C.	272
MARAI, S. J. S.	72,148, 233,272,273,285
MARAN, J.	273
MARCHAND, H.	273
MARCHIONATTO, J. B.	57,58,99, 157,263,273,274,454
MARCHIONI, A. H.	196,274
MARCOVITCH, S.	274,275,418
MARELLI, C. A.	275
MARIANI, M.	275
MARIÉ, P.	275
MARIE, R.	139,275,479
MÁRQUES DELGADO, A.	275
MARSH, H.	275
MARSHALL, D. S.	180,275,298
MARSHALL, G. A. K.	275, 276,304,431
MARSHALL, W. G.	276
MARSICO, D. F.	276
MARTELLI, G.	276
MARTINELLI, T. R.	276,480
MARTINEZ Y FERNANDEZ- CASTILLO, A.	276
MARTYNOV, A. V.	276
MASAITIS, A. J.	271,276
MASON, Miss C. W.	251,276
MASON, J. B.	276
MASSANA, M.	276
MASSINI, P. C.	276
MATAGNE, G.	276
MATHUR, C. B.	9,21,55,200, 201,277,338,372,413
MATHUR, R. N.	277
MATSUMURA, S.	277
MATSURA, I.	277,311
MATTHÉE, J. J.	277,278
MATVJEV, S.	278,400

M—contd.

	PAGE
MAURICE, BONITEAU BEY. ..	278
MAURIN, A.	278
MAXWELL-DARLING, R. C. ..	219, 278,279
MAXWELL-LEFROY, H. ..	251,279
MAY, H. G.	279
MC ARTHUR, J. M. . . .	279
MC BATH, W. E. . . .	279
MC BEAN, D. S. ..	279,327
MC CANN, C. ..	279
MC CANN, S.	160,279
MC CARTHY, T.	279
MC CHLERY, R. ..	106,279
MC CLUNG, C. E. . . .	279,280
MC COLLOCH, J. W.	280
MC CUTCHEON, F. H.	280
MCE KEVAN, D. K. ..	226,280
MC FARLANE, J. E.	280
MC GOVRAN, E. R.	280
MC HARGUE, J. S.	280
MC INDOO, N. E.	280
MC KILLOP, A. T. ..	169,281
MC LACHLAN, R.	281
MC MAHON, H. ..	52,166, 230,281
MC MARTIN, A.	249,281
MC NABB, J. W.	281,482
MC NEIL, E. H. ..	85,281, 367,412
MEANS, (Jr.) O. W.	281
MEDEVEDEV, S.	281
MEDLER, J. T.	97,281
MEDWEDEW, S.	281
MEESEN, M. T.	281
MEGALOV, A.	282
MEGUSAR, F.	282
MEHMED, SAID.	282,381
MEHTA, N. C.	282
MEILLAC, C.	282
MEKLENBURTSEV, R. N. ..	282
MELIS, A.	282
MELLO LEITÃO, C. DE.	282
MELLOR, J. E. M.	282
MELVIN, R.	282
MENAULT, E.	282
MENDES, M. V.	282

M—contd.

	PAGE
MENDÍZÁBAL, M.	282
MENNOZI, C.	283
MENON, N. KRISHNA ..	39,283
MENTZER, C.	101,283
MERCER, E. H.	124,283
MERESHKOVSKY, S. S. ..	283
MEREZHKOVSKIĭ, S. S.	283
MERINO, G.	283
MERKEL, F. W.	283
MERRICK, E. C.	283
MERWE, C. P. VAN DER. . . .	226,283
[MESOPOTAMIA.]	209,283
METALNIKOFF, C. K.	283,284
METAXA, T.	283,367
METCALF, C. L.	153,283
METCALF, R. L.	284
METCHNIKOFF, C. K.	284
[MEXICO.]	16, 284
MEYER, T.	284
MICHAEL, A. D.	284
MICHELMORE, A. P. G. ..	23,284
MICKEY, G. H.	285
MIDDLEBERG, C. P. ..	72,233,273, 285
MIÈGE, J.	285
MIGULIN, A. A.	285
MIKHELSON, I. YA.	285
MILES, P. W.	285
MILLÁN, H. G.	285
MILLARA, P.	285
MILLER, A. A.	285
MILLER, A. C.	285
MILLER, A. E.	285
MILLER, N. G. E.	113,286
MILLER, W. L.	197,286
MILLIKEN, F. B.	286
MILLOT, J.	153,286
MILLS, H. B.	286
MILNTHROPE, (Miss) W. ..	182,286 453
MIMEUR, J. M.	254,286,458
MINGOIA, Q.	286
MINOUCHI, O.	232,287
MIRAM, E.	287,404
MIRRLEES, S. T. A.	78,287
MIRSKY, A. E.	287,362

<i>M—contd.</i>		PAGE	<i>M—concl'd.</i>		PAGE
MIRZAYAN, H.		287	MORITZ-ROMANOYA, Z. E. ..		295
MISCHENKO, L.		287,289	[MOROCCO.]		15,295
MISRA, A. B.		287	[MOROCCO, FRENCH.]		295
MISRA, A. P.		287	[MOROCCO, SPANISH.]		295
MISRA, C. S.		287	MORILL, A. W.		295
MISRA, S. D.	3,54,287,288,302, 303,372—374		MORRIS, H. M.		295,296
MISTIKAVI, A. M.		288	MORRISON, L. G.		296
MISTIKAWI, A. M.	41,202,288, 289,490		MORSE, A. P.		296
MISTIKAWY, A. M.		289	MORSTATT, H.		296
MISTSHENKO, L.	49,289,290		MORTON, F. A.		296,319,397
MITCHELL, P. E.		290	MOSHMAN, J.		161,297,308
MITCHENER, A. V.	119,290,291,432		MOSSE, A. H.		297
MITRA, P. C.		291	MOSSOP, M. C. C.		297
MIYAKE, T.		291	MOUTIA, A.		297
MOCSÁRY, S.		291	MOXON, A. L.		297
MODESTOV, V.		291	[MOZAMBIQUE, PORTUGUESE EAST AFRICA.]		297,298
MOLCHANOVA, V. A.		291	MUESEBECK, C. F. W.		298,468
MOLINO, J.	291,436		MUHR, J.		298
MOLLER-RACKE, I.		291	MUIR, F.		298,424
MOMMA, E.	270,291,292		MUKKA, A. A.		180,275,298
MONCHADSKY,—	292,404		MUKERJI, S.	44,99,298,299	
MONOD, T.	269,292		MULIYIL, J. A.		41,299
MONTALENTI, G.		292	MÜLLER, A.		299
[MONTEVIDEO (ROTARY CLUB DE MONTEVI- DEO.)]		292	MULSANT, E.		299
MONTGOMERY, (JR.) T. H.		292	MÜNRO, J. A.		299,384
MONTI, R.		292	MURAT, M.		299,300,495
MOORE, H. W.		292	MURGUIA, J.		35,300,400
MOORE, W. J.		292	MURPHY, M.		76,300,357
MOOREHOUSE, S.		292	MURRAY, A.		300
MORALES, C.		292	MUSGRAVE, A. J.		300
MORALES, D.	238,245,269, 293		MUSSO, L.		48,300,394
MORALES AGACINO, E.	293,424		MYERS, C. M.		300,409
MORANT, (Miss) V.	123,293		[MYSORE, INDIA.]		206,300
MOREAU, F.	195,293				
MOREAU, R. E.	293,294		N		
MORENO, M. V.—See MORENO MÁRQUEZ, V.	294		N, W. G.		300
MORENO MÁRQUEZ, V.	90,294		NABERT, A.		300
MORGAN, H. A. . . .	294		NABOURS, R. K.	154,188,231,247 300—302,365,380,411,418	
MORITA, J.	294		NADIG, A.		302
MORITA, T.	294,486		NAG, M. K.		302,375
MORITZ, L. D.	160,294,295, 453		NAGEL, W.		302
			NAGUS, W. C.		302
			NAGY, B.		302

N—contd.		N—concl.	
	PAGE		PAGE
NAIR, K. R. ..	288,302,303,372,373	NIKOL' SKAYA, M. N. ..	307
NAKAHARA, H. ..	.. .. 303	NIKOLSKIĪ, V. V. ..	307,308
NANGPAL, H. D. ..	.. .. 303	NIKOLSKY, V. V. ..	308
NAOUMOFF, N. A. ..	.. .. 303,304	NISHIKAWA, O. ..	224,308
NARAYANAN, E. S. .	. 303,383	NIX, A. ..	308
NASAKINE, N. DE. ..	.. .. 303	NIX, M. ..	..122,161,297,309
NATH, V. ..	.. .. 55,303,342	NIZI, GRIFFI, L. ..	308
NATORI, B. ..	. .. 304	NOBLE, N. S. ..	308
NATTRASS, R. M. ..	.. .. 304	NOCEDO, C. ..	308
NAUDÉ, C. P. ..	.. .. 304,455	NOHL, J. ..	308
NAUDÉ, T. J. ..	. . 304	NOLTE, D. J. ..	308
NAUMOFF, N. A. ..	.. .. 304	NOLTE, M. C. A. ..	249,308,309,328
NAUMOV, N. A. ..	.. .. 304	NORDMAN, A. F. ..	309
NAVAS, L. ..	.. .. 304	NORMAN, C. ..	67,309
NAYAB, K. K. ..	.. .. 304	NORRIS, M. J. [MRS. O. W. RICHARDS.] .	309
NAZAROFF, P. S. .	.. .. 304	[NORTH AMERICA.] ..	..15,16,309
NEAVE, S. A. ..	.. .. 276,304,431	NORTHCOTT, F. E. ..	309,409
NEDELKOV, N. .	.. .. 304	[NORTHERN RHODESIA, AFRICA.]	209,309
NEFEDOV, N. I. ..	.. .. 304,305	NOSKOV, I. ..	309
NEFEDOVA, N. V. .	. .. 305	NOTLEY, F. B. ..	58,309
NEL, R. I. ..	.. .. 305	NOWAKOWSKIĪ, L. ..	309
NELSEN, O. E. ..	.. .. 305,306	NUBEE, HAJEE ABDUN ..	310
NENJUKOV, D. V. ..	.. .. 306	NURSE, C. G. ..	310
NENYUKOV, D. V. ..	.. .. 306	NUTTING, W. L. ..	310
NESBITT, H. H. J. ..	.. .. 306		
NESTRUEVA, M. .	. . 306,461	O	
NEVELING, C. H. ..	.. .. 306	OAKLEY, R. G. ..	311
NEVSKII, V. .	.. .. 306	OCSKAY, F. DE. ..	310
NEWELL, G. E. ..	.. .. 45,306	OGAKI, M. ..	310,311
NEWMAN, E. .	.. .. 306	OGLOBLIN, A. A. ..	162,217,310,311
NEWMAN, L. J. ..	.. .. 306	OHMACHI, F. ..	277,311
NEWTON, R. C. ..	.. 306,307,319,397	OJIMA, Y. ..	310,311
NICHOLSON, A. J. .	. . 307	OKA, T. ..	311
NICKERSON, B. .	. 307	O'KANE, W. C. ..	311
NICKERSON, M. C. ..	.. .. 307	OKAY, S. ..	311
NICKERSON, N. H. ..	.. .. 307,478	OLDFIELD, J. F. .	311
NICOLLE, C. ..	.. .. 57,88,307	OLDROYD, H. ..	312
NIEBUHR, C. ..	.. .. 154,307	OLIFF, A. S. ..	312
NIELSON, E. T. ..	.. .. 307	OLIVIER, G. A. ..	312
NIETO, J. A. ..	.. .. 307	OLSEN, R. F. ..	312
NIGAM, L. N. ..	.. .. 307,338	OLSUF' EV, N. G. ..	312
NIYAMA, H. ..	.. .. 36,270,307	OLSUFIEV, N. G. ..	312
NIKOLAEV, A. I... ..	.. .. 307	OMURA, T. ..	312
NIKOLAEVASKIĪ, L. A. ..	.. .. 307	ORDISH, G. ..	312

O—contd.			PAGE
ORLANDO, A.	..	..	163,252,312
ORLOV, J.	..	..	312
ORLOV,—.	..	..	167,312,438
ORTLOB, J. C.	..	..	96,313
OSIMA, K.	..	..	243,313
OSTEGA, M.	..	..	313
OTANES, F. Q.	..	..	223,313
OTIS, A. B.	..	..	24,62,313
OUDEMANS, A. C.	..	..	313
OWEN, F. E.	..	..	78,313
OWEN, G.	..	..	10,313
OYEN, T. VAN.	..	..	135,314
OZOLS, E.	..	..	314

P

P., L.	..	..	314
P., M. E.	..	..	314
PACKARD, (Jr.) A. S.	..	..	314,315,362, 430
PAGENSTECHER, H. A.	..	..	315
PAILLOT, A.	..	..	315
PAINTER, R. H.	..	..	82,315
[PAKISTAN.]	..	..	315
PALCOS, A.	..	..	315
PALM, C. E.	..	..	134,196,315
PALM, N. B.	..	..	315
PALMEN, J. A.	..	..	315
PANCHIĆ, I.—See PANCIC, J.	..	..	315
PANCIC, I.—See PANCIC, J.	..	..	315
PANCIC, J.	..	..	315
PANIAGUA, S.	..	..	315
PANTANELLI, E.	..	..	316
PANTEL, J.	..	..	316
PAOLI, G.	..	..	56,72,160,316, 317
PAPOVA, A. A.	..	..	317
[PAPUA and NEW GUINEA.]	..	..	317
PARFENT'EV, I. A.	..	..	317
PARFENTJEV, I. A.	..	..	159,306,317, 466,490
PARFITT, E.	..	..	317
PARK, T.	..	..	317
PARKER, G. H.	..	..	318
PARKER, J. R.	..	..	113,116,296,306, 318—320,397,398, 421,466,467,469

P—contd.			PAGE
PARKER-RHODES, A. F...	..	..	320
PARKS, T. H.	..	..	320
PARRY, D. A.	..	..	320
PARTIZI, S.	..	..	320
PASQUIER, R.	..	..	70,111,320,321
PASSONNEAU, J. V.	..	..	18,321,425, 426
PATEL, G. A.	..	..	180,321
PAUL, L. C.	..	..	52,166,230,321, 339
PAVAN, H. M.	..	..	321
PAWLOWA, M.	..	..	321
PAWLOWSKII, E. N.	..	..	322
PAWLOWSKY, E. N.	..	..	322
PAYNE, M. A.	..	..	322
PAZ Y MELIA, A.	..	..	322
PEAL, H. W.	..	..	322
PEÃO, LOPEZ, A.	..	..	322
PEARSON, A. M...	..	..	322,484
PEFFET, J.	..	..	322
PEJCIC, P.	..	..	248,322
PELAGHIAS, C. G.	..	..	322
PELLEY, R. LÉ.	..	..	322
PEMBERTON, C. E.	..	..	322
PEÑA, F. DE LA.	..	..	323
PENNINGTON, A. S.	..	..	323
PEPPER, J. H.	..	..	25,42,101,108, 189,218,323
PERAL, A.	..	..	122,323
PERDECK, A. C.	..	..	323
PEREZ, T. DE S.	..	..	323
PÉREZ ALCALÁ, R.	..	..	323,324,360
PÉREZ-GONZÁLEZ, M. D.	..	..	138,324
PERILLIAT-BOTONET, C...	..	..	269,324
PERLICK, A.	..	..	324
PERON, A.	..	..	324
PERRET, J.	..	..	324
PERRET, R.	..	..	324
PERROT, E.	..	..	324
PERRY, F. C.	..	..	171,177,178,217,324, 395,429,470,484,486
[PERSIA.]	..	..	137,324
PESCOTT, R. T. M.	..	..	324,470
PESHKOVSKAYA, L. S.	..	..	324,419
PETCH, T.	..	..	324
PETERSEN, B.	..	..	325,435,417

P—contd.				P—contd.			
			PAGE				PAGE
PETERSON, A.	..	..	325	[PORTUGERE DELEGATION.]	..	..	331
PETKOV, P.	..	..	325	[PORTUGESE EAST AFRICA.]	..	..	331
PETROV, S.	..	..	325	POSADA-ARAGNO, A.	..	..	331
PETRUNKEWITSCH, A.	..	..	176,325	PÖSCHL, J.	..	..	331
PETTY, B. K.	..	..	325	POSPELOV, V.	..	..	331
PEYERIMHOFF, P. DE.	..	..	53,325	POSPELOV, V. P.	..	..	331,332
PFADT, R. E.	..	..	325	POSSOMPÉS, B.	..	..	332
PFEIFFER, I. WEED.	..	..	325,472	POST, G.	..	..	332
PHIPPS, J.	..	..	325	POST, R. L.	..	..	25,332
PICARD, F.	..	..	325	POTAPOV, A. N.	..	..	332
PICCINIO, G.	..	..	326,432	POTGIETER, J. T.	..	..	332
PICHLER, F.	..	..	326	POTTER, E.	..	..	332
PICKETT, A. D.	..	..	326	POULEFF, S.	..	..	332
PICKFORD, R.	..	..	326	POULTON, E. B.	..	..	332,333
PICTET, A.	..	..	326,384	POWERS, P. B. A.	..	..	333
PIELOU, D. P.	..	..	326	POWNING, R. F.	..	..	124,209,333
PIELOU, E. C.	..	..	326	PRADHAN, S.	..	..	56,240,333
PIERCE, G. W.	..	..	326	PRAKASH, I.	..	..	333,417
PIERCE, W. D.	..	..	326	PRAMANIK, S. K.	..	..	163,186,333
PIERENTONI, U.	..	..	326	PRASAD, S. N.	..	..	333,402
PILAT, M.	..	..	326,327	PRAT, H.	..	..	334
PILLSBURY, J. S.	..	..	327,339,361	PRATT, H. C.	..	..	334
PINNEY, E.	..	..	327	PRAVDIN, F. N.	..	..	140,243,262, 334
PIRÁN, A. A.	..	..	261,327	PREDTECHENSKII, S. A.	..	..	150,330, 334,335,399, 458,491
PITHAWALA, M. B.	..	..	327	PREDTECHENSKY, S. A.	..	..	334,335
PITMAN, C. R. S.	..	..	327	PRESCOTT, H. W.	..	..	335,487
PLATEAU, F.	..	..	327	PRESCOTT, J. A.	..	..	335
PLATT, A. W.	..	..	279,327	PRINCIS, K.	..	..	335
PLAYFORD, B. H. A.	..	..	46,226,327	PRINGLE, J. W. S.	..	..	336
PLAZA MONTERO, A.	..	..	327	PROCHNOW, O.	..	..	336
PLESSIS, C. DU.	..	..	72,309,327,328, 408	PROCTOR, N. K.	..	..	336
PLOTNIKOV, V. I.	..	..	328,329	PROSSER, C. L.	..	..	336
PODTIAGUIN, B.	..	..	329	PROTSENKO, A. I.	..	..	336
[POLAND.]	..	..	28,329	PRUTHI, H. S.	..	..	55, 277, 307, 336—338
POLICE, G.	..	..	330	PRYOR, L. D.	..	..	338
POLSMAN, E. S.	..	..	330	PRYOR, M. G. M.	..	..	180, 338, 433
PONCET, A.	..	..	330,394	PRZIBRAM, H.	..	..	251, 338
PONCRÁCZ, A.	..	..	330	PUCHOV, B. A.	..	..	338
PONS, R.	..	..	244,330	PUDOVKIN,—	..	..	338
POPOV, G.	..	..	330 409	PUJULA, J.	..	..	338
POPOVA, A. A.	..	..	330,335,491	PUKHOV, B. A.	..	..	338, 339
PORTCHINSKIÍ, I. A.	..	..	330,331	PUKHOVA, N. N.	..	..	339
PORTCHINSKY, I. A.	..	..	330,331	PUMPHREY, R. J.	..	..	339, 348, 349
PORTE, E. M. DU.	..	..	331,455				
PORTEVIN, G.	..	..	331				

P—concl'd.			PAGE
PURCHAS, S.	..	..	10, 339
PURI, G. S.	..	..	339
PUSCHING, R.	..	..	339
PUSEY, P.	..	..	327, 339, 361
PUTNAM, L. G.	..	..	78, 159, 183, 184, 230, 321, 339, 340, 361
PYLE, Z. P.	..	..	67, 340, 429, 475

Q

QADRI, M. A. H.	..	..	340
[QUEENSLAND.]	..	..	39, 340
QUEIROZ, J. B. R.	..	..	340
QUIROGA, S. S.	..	..	340

R

R., M.	..	..	340
RADICZKY,—	..	..	340
RADL, E.	..	..	8, 340, 341
RADUGIN, P.	..	..	341
RAFES, P. M.	..	..	341
RAGGE, D. R.	..	..	341
RAHMAN, K. A.	..	..	341
RAINEY, R. C.	..	..	36, 341, 342, 385, 468, 469
RAJ BAWA, S. R.	..	..	55, 303, 342
RAKSHPAL, R.	..	..	342
RAMACHANDRA RAO, T.	..	..	342, 344
RAMACHANDRA RAO, Y.—See RAO, Y. RAMCHANDRA	..	..	342, 344
RAMAKRISHNA AYYAR, T. V.	..	..	39, 283, 342
RAMANATHAN, K. R.	..	..	342
RAMBIER, A.	..	..	128, 342, 437
RAMCHANDRAN, S.	..	..	123, 342
RAMDAS, L. A.	..	..	342
RAMME, W.	..	..	342, 343
RANDON, J.	..	..	343
RANGEL, J. F.	..	..	343
RAO, D. SHESHAGIRI.	..	..	343
RAO, R. SESHAGIRI	..	..	56, 344
RAO, S. N.	..	..	344
RAO, T. RAMACHANDRA.	..	..	344
RAO, V. P.	..	..	344
RAO, V. TIRUMALA.	..	..	344

R—cont'd.

			PAGE
RAO, Y. RAMACHANDRA.	..	..	15, 54, 102, 178, 342, 344—348
RAPPOLT, C. H.	..	..	348
RATANOV, K. N.	..	..	348
RATH, O. VOM	..	..	348
RATHELF, E. L.	..	..	348
RATHKE, B.	..	..	348
RATZERDORFER, CARLA.	..	..	348
RAUM, O. F.	..	..	348
RAVESKIĪ, V. [G.]	..	..	348
RAWDON-SMITH, A. F.	..	..	339, 348, 349
RAY, O. M.	..	..	23, 24, 62, 65, 67, 68, 93, 349
RAYBURN, F.	..	..	349
RAY-CHAUDHURI, S. P.	..	..	72, 125, 136, 176, 272, 349, 350, 384
RAYGER, C.	..	..	10, 140, 350
RAZET, P.	..	..	350
[REALE STAZIONE DI ENTOMOLO- GIA AGRARIA. FIRENZE.]	..	..	350
REBANE, J.	..	..	351
[RED LOCUST.]	..	..	209, 351
REDTENBACHER, L.	..	..	236, 351
REED, E. C.	..	..	251, 351, 485
REFS, H.	..	..	215, 351
REES, K. R.	..	..	351
REGEN, J.	..	..	351
RÉGNIER, P. R.	..	..	254, 351, 379
REH, L.	..	..	351, 352, 413, 488
REHN, J. A. G.	..	..	5, 15, 189, 190, 352—356
REHN, J. W. H.	..	..	356, 357
REICH, K.	..	..	60, 357
REICHE, L.	..	..	357
REICHENBACH-KLINKE, H. H.	..	..	357
REIFENBERG, A.	..	..	357
REIKHARDT, A. N.	..	..	357
REILLY, R.	..	..	357
REIMER, E.	..	..	55, 357
REINER, E. R.	..	..	357
REINKING, R. B.	..	..	76, 121, 300, 357, 358
REISCHELT,—	..	..	357

R—contd.		PAGE	R—contd.		PAGE
REMAUDIÈRE, G.	..	35, 96, 105, 116, 121, 357, 358, 366, 459	ROBERTS, L.	.. ..	364
REMBOLDT, J. J.		358	ROBERTSON, M.		198, 364
RENNER, M.	.. ..	358	ROBERTSON, W. R. B.	118, 301, 364, 365, 418	
RESCHETIN, N. L.		358	ROBINSON, D.	365, 409, 482	
[REVAL.]		142, 358	ROBLET, M.		365
REYES, G. M.		358	ROBSON, G. C.		359, 365
REYES MOLINA, A. M.		358	ROCCO, M. L.		365
REYNEKE, A. L.		358, 408	ROCHSTEIN, M. ..		365
RHOADES, W. C.	76,	121, 357, 358, 359	ROCK, P. J. G.		365, 478
[RHODESIA, AFRICA.]		15, 359	ROCKWOOD, L. P.		365
[RHODESIA, NORTHERN.]		359	RODIONOV, Z. S.	..	365, 366
RIBAGA, C.		359	RODON, G. S.		366
RICCHELLO, A.		359	RODZIANKO, W. N.		366
RICCI, I.		359	ROEBER, H.		366
RICHARDS, A. G.		236, 359	ROEBUCK, W. D.		366
RICHARDS, O. W.	359,	365, 468	ROEDER, K. D.		366
RICHARDS, P. B.		359, 360	ROEHRICH, R.	..	96, 97, 244, 330, 357, 366, 459
RICHARDSON, C. H.	33, 134, 180, 360,	392, 432	ROEPKE, W.	..	367
RICHMOND, H. A.		360	ROGERS, E.	.. ..	367
RICHTER, D.		360	ROGERS, R. W.	..	367
RICHTER, W.		360	ROHDENDORF, B.		367
RICKER, D. A.		360	ROHDENDORF, E. B.		367
RICO NEGRETTEY, J. J.		324, 360	RÖHLER, E.	..	367
RIEDEL, F. A.		361	ROHMER, J.	..	247, 367
RIEGERT, P. W.	159, 340, 361, 416		ROLFE, D. T.	..	85, 281, 367, 412
RIEHL, L. A.		361	ROLLI,—		283, 367
RIEMSCHEIDER, R.		361, 387	ROLLIN, L.		367
RILEY, C. V.	..	314, 327, 339, 361, 362, 430, 469	ROLLINAT, R.	..	367
RION, J. A.		362	ROMANOW, W.	..	367
RIPLEY, L. B.	..	362	ROOKE, H. G. D.		368
RIPLEY, S. H.	.. ..	144, 362	ROONWAL, M. L.		1, 14, 15, 54, 201, 202, 218, 277, 287, 288, 302, 303, 344 —346, 368— 375, 468
RIS, H.	..	287, 362	ROSAS COSTAS, J. A.		375
RISBEC, J.	..	271, 362, 363	ROSEDALE, J. L.		375
RITCHIE, A. H.	..	363	ROSELLA, E.	..	375
RITTER, K.	..	363	ROSENBERG, L.	.. ..	375
RIVIÈRE, C.	..	363	ROSILLO, M. A.	..	375
RIVINUS, M. W.		363	ROSKOSCHNICK, J.	..	375
ROBBIE, W. A.	..	67, 68, 363	ROSSI BELGRANO, C.	.. ..	375, 393
ROBERTIS, A. DE.	.. ..	363	ROSSIKOV, K. N.	.. ..	375, 376
ROBERTS, H. R.	.. ..	363, 364			

R—concl'd.		S—cont'd.	
	PAGE		PAGE
ROTH, A. R.	193, 376	SAMUEL, C. K.	303, 383
ROTH, L. E.	46, 129, 376, 425	SANDER, L.	383
ROTHFELS, K. H.	376	SANDERSON, M. W.	38 ³
ROTMAN, MRS., M. N.	376	SANDRASAGARA, T. R.	383
ROUBAUD, E.	376, 377	SANKALIA, H. D.	383
ROVELLI, G.	377	SANSOME, F. S.	244, 383
RUBTZOV, I. A.	222, 377, 378 462	SANTORO DE CROUZEL, I.	382, 383
RUBZOV, I. A.	378	SARA, M.	44, 383
RUDALL, K. M.	155, 378	SARAIVA, A. C.	91, 92, 383, 384
RUDOW, F.	378	SARKAR, I.	350, 384
RUDY, H.	378	SARLET, H.	135, 153, 384
RUEDIGER, E.	378	SARRASIN, J. M.	384
RUFFINELLI, A.	91, 261, 378, 379	SARUP, SHANTI.	384
RUGGLES, A. G.	379	[SASKATCHEWAN.]	384
RUKAVISHNIKOV, B. I.	379	SAUGSTAD, S.	299, 384
RUNGS, C.	77, 254, 351, 379, 380	SAUNDERS, S. S.	152, 384, 470
RUSINOV, D. I.	380	SAUNION, E. L.	384
RUSKA, H.	81, 138, 380, 385, 415	SAUSSURE, H. DE.	326, 384
RUSS, K.	380	SAUVAGEAU, J. L.	385
[RUSSIA.]	380, 439	SAVIGNY, J. C.	385
RUTLEDGE, B. A.	230, 380	SAWAYA, P.	81, 138, 380, 385, 415
RUTTLEDGE, W.	380	SAWER, E. R.	385
S		SAWYER, K. F.	385, 484
S., F.	380, 392	SAYER, H. J.	341, 385
SAB ROSKY, C. W.	247, 301, 380	SAZONOV, P. V.	385, 404
SACHAROV, N. L.	380, 381	SCHAEFER, E. E.	385
SÁEZ, F. A.	162, 380, 381	SCHAFFER, F.	149, 385
SAID, MEHMED.	381	SCHALKWIJK, H. A. D. VAN.	385
SAJO, K.	381	SCHANG, P. J.	385
SAKALOV, YU, YU.	381	SCHARFF, D. K.	385
SAKHAROV, N. L.	381, 386	SCHARRER, B.	385, 386
SAKSENA, R. D.	381	SCHATILOFF, F.	71, 386
SALDAU, P. I.	381	SCHATZ, L.	386
SALDAVINI, B. A.	381	SCHAUM, H.	386
SALFI, M.	381, 382	SCHEGOLEV, V. N.	386, 396
SALONIUS, P.	10, 55, 382	SCHEMBEL, S.	381, 386
SALT, R. W.	107, 382	SCHEUCHZER, J. J.	386
SALVI, D.	382	SCHEURING, L.	129, 386
SALVIN, R. G.	382, 383	SCHIMTSCHER, E.	386
SAMOGGIA, A.	382, 383	SCHIÖDTE, J. C.	386
		SCHIPPER, A. L.	386
		SCHIUMA, R.	261, 386, 387
		SCHLEBECKER, J. T.	387
		SCHLEICH, E. W.	387

S—contd.		PAGE
SCHLOTTKE, E.		387
SCHLZEL, E.		361, 387
SCHMID, G.		387
SCHMIDT, E. O.		387
SCHMITT, J. B.		387
SCHMITZ, H.		388
SCHNEIDER, W.		388
SCHOCH, G.		388
SCHOLL, E. E.	148, 388, 420	
SCHOSTAKOWITSCH, W. B.		388
SCHOUTEDEN, H.		388
SCHRADER, F.		388
SCHRAG, O.		388
SCHRECK-RUTE.	10, 388	
SCHREINER, J. F.		388
SCHREUDER, J. B.	389, 479	
SCHRODER, C.		389
SCHRÖTER, J. S.		389
SCHUGURENSKY, L.		389
SCHULTHESS-RECHBERG, A.		389
SCHULTHESS-SCHINDLER, A. DEL.		389
SCHULTZ, E. F.		389
SCHUMACHER, J.		389
SCHURTZ, C. H.		389
SCHUSTER, G.		389
SCHWABE, J.		389
SCHWARZ, E. H.	43, 389	
SCHWERDTFEGER, F.		389
SCINCHEVIC, V.		389
SCOGGIN, J. K.	390, 429	
SCOPOLI, I. A.		390
SCOTT, A. C.		390
SCOTT, H.		390
SCUDDER, S. H.	390, 391	
SCUFONI, F.	391, 392	
SENILOSA, FELIPE	380, 392	
SEABRA, A. F. DE.		392
SEDAR, A. W.	46, 144, 392	
SEDDON, H. R.		392
SEDEL, C.		392
SEGAL, N.	59, 60, 392	
SÉGUY, E.		392
SEGUY, F.		392
SEIFERLE, E. J.	360, 392	
SEIXAS, C. A.		392

S—contd.		PAGE
SELLIER, R.		392
SÉLYS-LONGCHAMPS, E.	180, 393	
SEMANS, F. M.		393
SEMICHON, L.		393
SEN, M. N.		393
[SENEGAL AFRICA.]		393
SENEZ, A.	375, 393	
SENGUPTA, G. C.	48, 393	
SEOANE, V. L.		394
SERAVALLI, C. F.		394
SEREBRENNIKOV, M. K.		394
SERGENT, E.	48, 255, 300, 330, 394	
SERRES, M. DE.		394
SERVILLE, AUDINET, J. G.		394
SEUBERT, M.		394
SEUFONI, F.	391, 394	
SEVASTOPULO, D. G.		394
SEVASTYANOV, I.		395
SEVERN, H. C.	164, 395	
SEYDEL, C.		395
SEYMOUR, W. G.	171, 177, 178, 217, 324, 395, 429, 470, 484, 486	
SHAFIQ, S. A.	96, 395, 396	
SHAPINSKII, D. V.		396
SHAROV, A. G.		396
SHARMAN, G. B.		396
SHARP, D.		396
SHAW, W. B. K.		396
SHCHEGOLEV, V. N.	49, 68, 103, 145, 396	
SHCHERBINOVSKII, N. S.		396
SHCHERBINOVSKY, N. S.		396
SHELFORD, V. E.	108, 396, 397	
SHEMBEL, S. YU.		397
SHEPPARD, C. W.	96, 161, 397	
SHEPPARD, P. M.		397
SHESHAGIRI RAO, D.	343, 397	
SHEVKET,—.		397
SHIMKEVITCH, V.		397
SHIRAI, S.		397
SHIRAKI, T.	205, 397, 413	
SHOTWELL, R. L.	116, 296, 306, 319, 320, 397, 398, 469	

S—contd.	PAGE
SHPET, G. I.	398, 416
SHROFF, K. D.	398
SHTAKEL' BERG, A. A.	398
SHULGINA, O. G.	222, 398
SHULL, A. F.	399
SHULOV, A.	60, 61, 239, 255, 399, 407
SHULOW, A.—See SHULOV, A. ..	399
SHUMAKOV, E. M.	399, 485
SHUTTS, J. H.	399
SIAN, F. J.	399
SIAZOV, M. M.	399, 400
SIEBOLD, C. TH. E. VON	400
SIECOLA, J. J.	35, 300, 400
SIEDLECKI, M.	400
[SIERRA LEONE, AFRICA.]	400
SIGGINGS, L.	199, 400
SIGISMUND, B.	400
SIGRIANSKY, A. M.	400
SIGUNOV, A.	278, 400
SIHLER, H.	400
SIJAZOV, M. M.	228, 400, 401
SILORET, G.	401
SILVA, E.	401
SILVEIRA, A. C. DE.	401
SILVESTRI, F.	401
SIMES, J. A.	401
SIMONETTI, V.	401
SIMPSON, C. B.	401
SIMROTH, H.	401
[SIND, INDIA.]	207, 401
SINGER, J.	401
SINGH, GAMBHIR.	401
SINGH, GURDAS.	55, 402
SINGH, GURDIAL.	402
SINGH, M.	402
SINGH, R. P.	402
SINGH, S.	178, 272, 402
SINGH, SARDUL.	402
SINGH, T.	402
SINHA, T. B.	333, 402
SINTENIS, F.	402
SIRAZITDINOVA, F. S.	402
SIYAZOV, M. M.	400, 402
SJÖSTEDT, Y.	402, 403
SKAIFE, S. H.	403

S—contd.	PAGE
SKALOV, YU.	287, 403, 404, 490
SKATSCHKOW, K.	404
SKOBOLO,—.	292, 404
SKRJABINA, E.	404
SKRYABINA, E. A.	385, 404
SLAPE, H. W.	194, 404
SLIFFR, ELEANOR, H. 79	191, 231, 399, 404 —407, 423, 426, 449
SMART, J.	407
SMEE, C.	407, 408
SMIT, B.	408
SMIT, C.	328, 408
SMIT, C. J. B.	358, 408
SMITH, C. C.	408
SMITH, C. W.	408
SMITH,—.	408
SMITH, D. S.	101, 183, 309, 409
SMITH, E.	137, 409
SMITH, F.	409
SMITH, H. E.	409
SMITH, J. N.	158, 300, 365, 409, 482
SMITH, K. D.	330, 409
SMITH, P.	409
SMITH, R. C.	125, 409, 410, 437
SMITH, R. W.	151, 410, 420
SMITH, W.	410, 478, 483
SNIGUR, B.	410
SNODGRASS, R. E.	410, 411
SNOW, F. H.	411
SNYDER, B.	301, 302, 411
SNYDER, M. L.	93, 194, 411
SNYMAN, A.	412
SOKOLOV, A. YA (SOKOLOV, A. J.)	412
SOKOLOV, I.	412
SOKOLOV, P. T.	412
SOLDAU, P. LA.	412
SOLF, V.	412
SOLIER,—.	412
SOLOMON, J. D.	85 281, 367, 412
[SOMALILAND, ITALIAN (AFRICA).]	412, 413
[SOMALILAND, PROTECTORATE, (AFRICA).]	413
SOMEREN, V. G. L. VAN.	413, 454
SOMES, M. P.	413

	S—contd.	PAGE
SONAN, J.	.. ..	158,205,397,413
SONI, B. N.	.. ..	277,413
SOONG, CHING-CHIENG.	..	413
SORAUER, P.	.	413
SORENSEN, C. J.	.. ..	233,413
SORIANO, P. S.	..	413
SOTO, J. G. DE..		413
[SOUTH AFRICA.]		15,414
[SOUTH AMERICA.]		15,414
[SOUTH AUSTRALIA.]	..	414
[SOUTHERN RHODESIA, AFRICA.]		359,415
SOUZA SANTOS, H. L.	81,138,380,385,	415
.. ..	.. ..	415
SOUZA SANTOS, P.	81,138,380,385,	415
.. ..	.. ..	415
SOZIO, S.	.. ..	415
[SPAIN.]		16,415
SPAIN, L. A.	..	415
[SPANISH MOROCCO.]	..	295,415
SPASSKY, A.	.. ..	211,415
SPASSKY, A. F.	.. ..	253,415,491
SPASSKY, S.	.. ..	415
SPAWN, G. B.	..	415
SPEER, R. P.	..	415
SPENCE, W.	.. ..	232,415
SPENCER, G. J.	..	84,415
SPETT, G. I.	..	416
SPINKS, J. W. T.		159,369,416
SPORN, E.		416
SQUAREY, P.		416
SQUIRE, F. A.		416
SRISUKH, S.	..	168,416
SRIVASTAVA, A. S.	..	416
SRIVASTAVA, M. D. L.		417
SRIVASTAVA, P. D.		417
SRIVASTAVA, R.	..	333,417
STACKELBERG, A. A.		417
STAGER, R.	..	417
STAL, C.	.. ..	417
ST. AMAND, G. S.	.	109,417,433
ST. AMAND, W.		109,418
STANLEY, W. W.		275,418
STARK, M. B.		266,418
ST. CLAIR, A. H.	..	418
STEBBING, E. P.	.. ..	418

	S—contd.	PAGE
STEBBING, W. P. D.	418
STEBBINS, F. M.	..	302,365,418
STEEL, W. O.	418
STEELE, H. VEVERS.		418
STEFANELLI, P.	418
STEFANI PEREZ, T. DE.		418,419
STEFANO, S. DI.	..	419
STEFANOWSKA, M.	..	419
STEIN, A.		419
STEIN, J. P. E. F.		419
STEINER, G.		106,109,419
STEINHAUS, E. A.	..	419
STEINVORTH, H.	419
STENFANOV, R.		419
STEPANOFF, P.		419
STEPANOV, P.	419
STEPHENSON, P. R.		420
STERN, C.	..	420
STERNBURG, J.	..	225,420
STETSON, H. T.	420
STEVANOVIT, D.	..	420
STEVENSON, J. P.	..	420
STEWART, W. W. A.		410,420
STEYN, D. G.		420,433
STICKER, G.	420
STIERLIN, A.	..	420
STILES, C. F.		148,388,420
STILES, C. W.	..	188,420
STIRRETT, G. M.	..	154,420
ST. JOHN, O. B.		137,420
STOCKMAN, S.		420
STOLL, C.		196,421
STRACHOVSKII, A. N.		421
STRAND, A. L.		113,318,421
STRAUTZELIS, T.		421
STRELNIKOV, I. D.		421,422
STRENGER, A.		422
STROHECKER, H. F.	..	422
STRUCK, C.	..	422
STRUNGER, A.	422
STUART PENNINGTON, A.		323,422
STUART, R. R.	..	422
STUHLMANN, F.	..	422
STURA, A.	422,436
SUBRAMANIAM, T. V.	422

S—concl'd.	PAGE
SUBRAMANYA IYER, T. V.	422
[SUDAN, AFRICA.]	15,422,423
[SUDAN AFRICA, EGYPT AND ERITREA.]	423
SUIHLA, G. ..	79,406,423,426
SUITIN, V. ..	423
SUMKOV, G.	423
SUREYA, M.	423
SUTTON, R. L. I.	423
SUTTON, W. S.	423
SVIRIDENKO, P. A.	423,424
SWAIN, R. B.	293,424
SWAN, D. C.	26,123,424
SWENK, M. H.	74,424,472
SWEZEY, O. H. ..	298,424
SWIFT, H. H.	232,424
SWINGLE, M. C. ..	424
SWINTON, A. H.	424
SWYNNERTON, R. J. M.	424
SZANISZIÓ, A.	424
SZE, LI-CHIEH. ..	425
SZELIZGA-MIERZEYEWski, W.	425

T

TADDEI, A.	425
TAHMISIAN, T. N.	18,24,46,63,67, 79,83,129,160,321,376, 406,423,425,426,462
TAKAHASHI, H.	426
TAKAHASHI, R.	426
TAKATA, R.	236,426
TALBOT, G.	426
TALGERI, G. M.	427
TALHOUK, A. S. ..	427
TALJAARD, J. J. ..	107,427
TAMHANE, V. A. ..	427
TAMINO, G.	427
TAMMES, P. M. L.	427
TANCHIS, P.	427
[TANGANYIKA TERRITORY, AFRICA.]	427
TAQI AHSAN, S. M.	427
TARBINSKII, S. P.	427,428
TARBINSKY, S. P. ..	427,428
TAREVA, A. J.	306,428
TARGE, A.	221,428

T—cont'd.

	PAGE
TARGIONI-TOZZETTI, A. ..	428
TASCHENBERG,	428
TASCHENBERG, O. ..	14,428
TAUBER, O. E. ..	125,134,173,390, 428,486
TAYLOR, A. B. ..	118,214,232,428
TAYLOR, A. S.	429
TAYLOR, E. J.	184,234,429
TAYLOR, G. C.	429
TAYLOR H J.	192,429
TAYLOR, I. R.	118,429
TCHORBADDEV, P.	429
[TECHNICAL COMMITTEE OF FOURTH INTERNATIONAL LOCUST CONFERENCE.] ..	429
TELENGA, N. A. .. .	429
TELFORD, H. S.	429
TELFORD, T. M. ..	171,177,178,217,324, 395,429,470,484,486
TEMPEL, W.	429
TEOMAN, N.	142,429
TEPPER, T. G. O.	429
TEPERT, W. A. ..	67,340,429,475
TETEFORT, J.	157,429,430
TETRY, A.	430
TEWFIK, M.	203,430,454
THAYER, G. H.	430
THERON, J. J. ..	181,430
THOMAS, C.	314,362,430
THOMAS, J. G.	430,431,454
THOMAS, R.	431
THOMPSON J. L. CLOUDSLEY—See CLOUDSLEY—THOMPSON, J. L.	109,431
THOMPSON, V.	67,431
THOMPSON, W. L.	176,230,431
THOMPSON, W. R.	276,304,431,432
THOMSEN, M.	432
THORNLEY, H. F.	233,432
THORNTON, E. N. ..	432
THOROLD, C. A. ..	58,432
THORPE, W. H. ..	432
THORSTEINSON, A. J.	291,432
THURBER, G. A... ..	360,432
TIBERTI, G.	326,432
TIETZ, H. M. .. .	432
TILLYARD, R. J.	432
TIMON-DAVID, J. . . .	432

T—contd.		T—concl'd.	
	PAGE		PAGE
TINBERGEN, N.	432	TSOU, T. L.	437
TINKHAM, E. R.	432,433	TSUJIMOTO,—.	437
TIPTON, S. R.	93,161,417,433	TUCK, J. B. ..	410,437
TJIO, J. H.	255,433	TUCKER, E. S.	437
TODD, A. R.	180,338,433	TÜMPEL, R.	437
TODD, F. E.	433	[TUNISIA, AFRICA.]	437
TOIT, P. J. DU.	420,433	[TURKESTAN.]	437
TOLEDO PIZA, S. DE.	433	TURNACLIFF, D. D.	209,437
TOMASELLO, J. F. ..	434	TUZET, O.	342,437,495
TOMS, B. A.	22,226,434	TWINING, H.	149,191,437
TONNELIER, A. G.	434	TWINN, C. R.	437
TONNOIR, A. L.	434	TYCHSEN, O. G.	36,437
TOPI, M.	434	TZUIGANKOV,—.	167,312,438
TORRESS, D.	434		
TOURATLER, G.	434	U	
TOWNSEND, A. A.	434	U., B. P. ..	438,441
TOWNSEND, C. H. T.	434	UCHIDA, T.	138,198,438
TRABUT, L.	434	[UGANDA, AFRICA.]	438
TRÄGARDH, I. ..	434,435	UGRYUMOV, G. D.	438
TRANCHIS, P.	435	UICHANCO, L. B. ..	164,438
TRATNIKOV, D.	435	UMEYA, Y.	438
TRAUT, I. I.	435	UMNOV, N. N.	438
TRAVASSOS, L.	435	[UNION OF SOVIET SOCIALIST REPUBLICS.]	15,16,438
TRAVERS, W. L.	435	[UNITED KINGDOM.]	173,43
TREHERNE, J. E.	325,435	UNITED KINGDOM DELEGATION.]	43
TREHERNE, R. C. ..	83,435	[UNITED PROVINCES, INDIA.]	207,439
TRELLES, C. A. LIZER, Y.	263,435	[UNITED STATES OF AMERICA.]	15,16, 314,362,430,439,440
TREUNER, J. P.	10,435	UROTCHESTCHE BUDAKI, B. Z.	18,440
TREWTHICK, H. P.	255,435	URQUHART, D. H.	440
TRIBODI, C. E.	435	URQUHART, F. A.	46,440,441,467
TRIMEN, R.	435	[URUGUARY, SOUTH AMERICA.]	441
TRINCHIERI, G.	435,436	[URUGUAY (DIRECCION GENERAL Y DE CONTRALOR OF LA LUCHA CONTRA LA LANGOSTA EN EL URUGUAY.).]	16,441
[TRIPOLITANIA, AFRICA.]	436	USTYANTZEV, M. M.	441
TRISTRAM, H. B.	436	UVAROV, B. P. ..	5,14,15,73,86,88,98, 131,139,181,225,286,295, 359,407,413,430,438,441 —454,468,470,493
TROCHAIN, J.	436	UVAROV, E. B.	454
TROITSKII, D.	436	[UZBEKISTAN, U.S.S.R.]	454
TROUP, R. S.	436		
TROVATO, O. A.	422,436		
TROWBRIDGE, C.	62,436		
TRUJILLO PELUFFO, A.	291,436		
TRYON, H.	436		
TSAI, P. [PANG-HWA]	436		
TSAO, CHI.	436		
TSEOU, KEUN, IEE.	436,484		

V		PAGE	V—concl'd.		PAGE
VALCARGE, A. G.	.	234,454	VILLIERS, F. J. DE.	..	148, 461
VALDEYRHON-FABRE, L.		454	VILLOT, A.		461
VALDIVIA, A. A.		454	VINAL, S. C.	.. ..	461
VALLÉ, R. G.	..	454	VINOGRADOV, A. P.	..	306, 461
VALLEGA, J.	99,157,274,	454	VINOKUROV, G. M.	377,	461, 462
VALOV, N.	..	455	VISART, O.	..	462
VANDERLECK, J.	..	331,455	VOEVODIN, A. V.		462
VANDER MERWE, C. P.	226,283,	455	VOGEL, H. H.	..	426, 462
VANDERPLANK, E. I.		455	VOLKONSKY, M. A.	454,	462, 463
VAN DER WULP, F. M.	..	455	VOLKONSKY, M. T.	.. ..	462, 463
VAN SCHALKWIJK, H. A. D.	385,	455	VOLLUM, E. P.		463
VAN ZIJL, J. P.	.. ..	304,455	VORONTZOVSKII, P. A.	..	463, 464
VAN ZYI, J. P.	.	455,496	VOSKRESENKAJA, A.	.. ..	464
VARDÉ, V. P.	.. ..	455	VOSKRESENKAYA, A. K.	..	464
VARELA, G.	..	121,194,455	VOSS, F.	..	464, 465
VARLEY, G. C.	.. ..	455	VOSSELER, J.	..	465
VASILÉV, I. V.	.. ..	455	VOUTE, A. D.	.. ..	465
VASIL'EV, K. A.	.	455	VOY, A.	..	465
VATS, M. S.	.. ..	456	VRIES, A. H. DE.	..	465
VAYSSIÈRE, A.	..	456	VRIJDAGH, J. M.	..	465
VAYSSIÈRE, P.	100,134,150,253, 286,456—458		VRYDAGH, J. M.		465
VEBER, YA. KH.	..	454	VUILLAUME, M.	..	465, 466
VEITCH, R.	.. ..	458	VUISHELESSKAYA, N. S.	159,317,	466, 490
VELTISCHEV, P. A.	..	458			
VELU, H.	..	72, 458	W		
VERBEEK, F. A. T. H.		458, 459	W. B. D.	.. ..	466, 469
VERDIER, M.	.. 96, 357, 366,	459	WADLEY, F. M.		124, 466
VERESTCHAGIN, B.		459	WAGA, A.	..	466
VERESCHAGIN, V.		459	WAINWRIGHT, C. J.	..	466
VERHEYEN, R.	..	459	WAKELAND, C.	319,	466, 467
VEKLOT, J. B.	.. ..	459	WALDIVIA, A. A.—See VALDIVIA,		
VERWER, P. A.	..	348, 459	A. A.		454, 467
VESEY-FITZGERALD, D. F.		459	WALKER, E. M.		441, 467
VESTAL, A. G.		459	WALKER, F.		467
VIADO, G. B.		459	WALKER, F. W.	.	197, 467
VIALLANES, H.		459	WALKER, J. F.		468
VIANA, M. J.		460	WALKLEY, L. M.		298, 468
VIAUD, G.		460	WALLACE, F. N.		468
VIGNON, P.	..	460	WALLING, EULALIA, V.		468
VIGOR, S. H.	. 225, 231,	460	WALLING, LALIA, V.		468
VILARDEBO, A.		460	WALOFF, N.		359, 468
VILIOEN, P. R.	.. ..	460	WALOFF, Z. [V.]	342,	468, 469
VILLA, A.	.. ..	460	WALSH, B. D.	361,	466, 469
VILIA, G. B.	.. ..	460	WALSH, G. B.	..	469
VILLARD, J.	.. ..	460	WALTER, A.	.. ..	469

W—contd.		PAGE	W—contd.		PAGE
WALTERS, H. J.	..	469	WESLEY, W. K.		475
WALTON, L. B.	..	469	WEST, T. F.	90, 154, 185,	475
WALTON, R. R.		148, 469, 478	WEST, W. L.	66, 67, 265, 340,	429, 475
WALTON, W. R.	319,	320, 398, 469	[WESTERN AUSTRALIA.]		37, 38, 475
WANKEL, C.		470	WESTHOFF, F.		475
WARD, I. J.		470	WEST WOOD,—	136, 408,	476
WARD, J.	171, 177,	178, 217, 324, 395,	WET, W. J. DE.		471, 475, 476
		429, 470, 484, 486	WEVER, E. G.		476
WARD, J. F.	..	470	WEYENBERG, H.		476
WARE, K. M.	..	324, 470	WHEELER, W. M.		476
WARE, F. C. WEBB.		470, 471	WHELLAN, J. A.		476
WASHBURN, F. L.		470	WHITE, M. J. D.	307, 476—	478
WASHBURN, R. H.		470	WHITE, M. W.	195, 196,	478
WATERHOUSE, C. O.	152,	384, 470	WHITE, R. M.		365, 478
WATERS, H. A.		470	WHITEHEAD, F. E.	.. 148, 469,	478
WATERSTON, A. R.		470	WHITFIELD, F. G. S.		478, 484
WATERSTON, J. M.	..	470	WHITMAN, A.		410, 478, 483
WATSON, J. R.		74, 470, 471	WIGGLESWORTH, V. B.		45, 478, 479
WATSON, K. B.		471	WILBERT, H.	..	479
WATSON, M. E.	..	471	WILBUR, D. A.	88, 121, 158,	483
WATT, G.	..	272, 471	WILCZEK, E.	..	275, 479
WATTS, D. T.	..	471	WILDE, J. DE.	..	389, 479
WEAVER, J. E.	..	108, 184, 471	WILDE, K. F.		479
WEBB, D. VAN, V.		249, 471, 476	WILKENS, W.	..	479
WEBB, WARE, F. C.		471	WILKINSON, H.		58, 479
WEBER, H.		471	WILLE, J. E.		276, 479, 480
WEBER, R.	..	325, 471	WILLEMSE, C.		80, 480, 481
WEBLEY, D. P.		471	WILLET, J. E.		481
WEBSTER, J. F.		472	WILLIAMS, C. B.	..	264, 481
WEDDELL, J. A.		472	WILLIAMS, L. H.	..	481
WEED, ISABELLE, G.		472	WILLIAMS, MARGARITA, E.		482
WEED PFEIFFER, I.		472	WILLIAMS, R. H.		481, 482
WEHR, E. E.		424, 472	WILLIAMS, R. T.		365, 409, 482
WEHRLE, L. P.	..	472, 474	WILLIS, H. R.		482
WEIDNER, H.		473	WILLIS, J. A.	..	482
WEIGEL, C. A.		44, 473	WILSON, A. T.		482
WEIHING, R. M.		193, 473	WILSON, C. A.		482
WEINMAN, C. J.		55, 125, 473	WILSON, C. C.		225, 482, 483
WEIR, J.	..	474	WILSON, E. B.		483
WEIS-FOGH, T.		239, 474	WILSON, H. F.		195, 483
WEISS, A. L.		474	WILSON, W. J.	..	483
WEISS, H. B.	.	73, 474	WIMSHURST, C. R.		483
WELCH, P. S.		472, 474	WINCHESTER, A. M.		483
WENRICH, D. H.	..	474	WISE, J. C.	..	410, 478, 483
WERNER, F.	..	474, 475	WODZICKI,—	..	483

<i>W—concl'd.</i>		PAGE	<i>Y—concl'd.</i>		PAGE
WOLKIN, J. E.	.. ..	67, 483	YOUNG, F. N.		90, 487
WOLLENHAUPT, G. A.		10, 483	YOUNG, P. A.	..	487
WOMERSLEY, H.	..	483	YUASA, H.		487
WONG, CHI-YU.	..	436, 483, 484	YUFEREV, V.	..	487
WOO, F. C.	..	102, 484	YURGENSON, I. A.		487
WOOD, A. H.	..	478, 484			
WOOD, H. E.		484	Z		
WOODRUFF, B. H.		484	ZACHAROV, L. Z.		487, 488
WOODRUFF, L. C.		484	ZACHER, F.		487, 488
WOOTEN, N. W.	..	385, 484	ZACHWILICHOWSKI, J.	..	488
WORLEY, L. G.	..	484	ZADANOV, S. P.		488, 491
WORTHINGTON, A. D.		322, 484	ZAKHAROV, L. Z.		403, 488—490
WRIGHT, E. N.	..	171, 177, 178, 217, 324, 395, 429, 470, 484, 486	ZAKHVATKIN, A. A.	211, 253, 486, 490,	492
WRIGHT, J. A.	.. ..	24, 484	ZALESSKY, J. M.		490
WRIGHT, J. C.	..	25, 84	ZAMBIN, I. M.		490
WU, J. S.	..	484	ZANGHI, P.	..	490
WULFF, V. J.	..	214, 485	ZARRING, I. I.	159, 317, 466, 490	
	X		ZARUDNI, N.		490
	Nil		ZARUDNY, N.		490
	Y		ZEBE, E.	..	491
YAKHONTOV, W.	.. ..	485	ZEUNER, F. E.		491
YAKHIMOVICH, L. A.		399, 485	ZHADANOV, S. P.	330, 335, 491	
YAKOBSON, G. G.— <i>See</i> JACOBSON, G. G.		213, 485	ZHIVAGO, P. I.		324, 491
YAMASAKI, T.		210, 485	ZHUKOV, V. G.		491
YANEZZ, A. B.		251, 351, 485	ZIMIN, L. S.	211, 253, 415, 490—492	
YANG, WE-I.	..	485	ZIMMERMAN, R. R.	..	492
YASUIKOV [ZAKHVATKIN], A. A.		485, 486	ZIPPELIUS, H. M.		492
YATZENTKOVSKIĪ, E. V.		485	ZNAMENSKII, V. V.		492
YATZENTKOVSKIĪ, E. V.		485	ZNOIKO, D. V.		492
YATZENTKOVSKY, E. V.	..	485	ZOHEIRY, M. S. EL.	..	41, 289, 492
YATZUINA, L. A.		486	ZOLK, K.	..	492
YAZUIKOV, A. A. [ZAKHVATKIN, A. A.]		486, 490	ZOLOTAREV, E. KH.		492, 493
YEAGER, J. F.		428, 486	ZOLOTAREVSKY, B. N.	136, 254, 299, 454, 493—495	
YEO, D.	..	171, 177, 178, 217, 324, 395, 429, 470, 484, 486	ZONJKO, D. V.	..	492, 495
YEOMANS, A. H.		486	ZOOLOGICAL RECORDS		14, 495
YERSIN, A.		486	ZRIAKOVSKI, V.		495
YOKOO, T.		294, 486	ZUBER-VOGELI, M.		437, 495
YORK, G. T.	..	335, 486, 487	ZUBOVSKI, N.		495
YOSHIMEKI, M.	..	487	ZUBOWSKY, N.		495
YOSIDA T	..	487	ZUCCHINI, M.		495
			ZVEREZOMB-ZABOVSKII, E. V.	..	496
			ZWÖLFFER, W.	..	496
			ZYL, J. P. VAN.	..	496

V—SUBJECT INDEX

The Subject Index is classified into the 10 sections as given below and references falling under each of the sections are listed by their serial numbers in the bibliography. The sections are :

1. General. (Including historical records bibliographies, text books, techniques, etc.)
2. Reports, Commissions, Conferences, etc
3. Morphology. (Including histology and cytology.)
4. Development. (Embryonic and postembryonic.)
5. Physiology. (Including biochemistry.)
6. Bionomics and Ecology. (Including life-histories, ecology, parasites, predators, epidemics, etc.)
7. Phases. (Including biometry.)
8. Evolution, Phylogeny, Genetics, etc.
9. Control.
10. Zoogeography, Faunistics and Taxonomy.

1. GENERAL

(Including historical records, bibliographies, text-books, techniques etc.)

8, 18, 44, 46, 79, 96, 125, 131, 132, 134, 151, 179, 187, 189, 191, 202, 218, 227, 278, 281, 293, 294, 300, 306a, 306b, 315, 335, 369, 377, 405, 433, 446, 473, 476, 485, 492, 495, 499, 508, 523, 524, 530, 557, 564, 569, 590, 693, 745, 809, 838, 883, 887, 888, 889, 900, 915, 916, 917, 925, 951, 1042, 1048, 1070, 1084, 1085, 1122, 1123, 1127, 1141, 1172a, 1213, 1218, 1269, 1269a, 1270, 1271, 1284, 1297, 1298, 1301, 1302, 1324, 1326, 1330, 1336, 1357, 1414, 1418, 1419, 1456, 1465, 1467, 1475, 1490, 1528, 1530, 1554, 1565, 1567, 1577, 1597, 1612, 1613, 1622, 1624, 1652, 1686, 1718, 1756, 1774, 1784, 1787, 1805, 1806, 1808, 1815, 1827, 1834, 1835, 1851, 1857, 1881, 1882, 1893, 1901, 1925, 1927, 1940, 2020, 2044, 2065, 2098a, 2103, 2145, 2162, 2194, 2229, 2255, 2256, 2257, 2263, 2289, 2312, 2327, 2332, 2348, 2375, 2377, 2381, 2383, 2397, 2428, 2440, 2455, 2470, 2525, 2526, 2529, 2543, 2545, 2550, 2566, 2622, 2639, 2672, 2735, 2783, 2831, 2917, 2957, 2976, 2978, 2989, 2990, 3021, 3032, 3036, 3049, 3089, 3121, 3125, 3127, 3142, 3167, 3180, 3181, 3185, 3187, 3197, 3198, 3241, 3294, 3299, 3306, 3309, 3310, 3327, 3328, 3335, 3336, 3340, 3346, 3360, 3361, 3379, 3392, 3443, 3466, 3551, 3562, 3591, 3627, 3628, 3654, 3655, 3656, 3706, 3738, 3826, 3829, 3852, 3889, 3944, 3965, 3979, 4000, 4014, 4020, 4022, 4039, 4052, 4055, 4056, 4065, 4077, 4094, 4194, 4215, 4216, 4217, 4226, 4246, 4248, 4255, 4279, 4292, 4301, 4306, 4342, 4388, 4389, 4390, 4402, 4417, 4419a, 4507, 4525, 4530, 4531, 4554, 4567, 4613, 4615, 4634, 4651, 4663, 4688, 4748, 4754, 4764, 4808, 4835, 4845, 4847, 4850.

4850*a*, 4850*b*, 4850*c*, 4850*d*, 4850*e*, 4866, 4870, 4871, 4885, 4945, 4946, 4964, 4967, 4971, 4991, 5004, 5006, 5007, 5008, 5040, 5041, 5042, 5043, 5046, 5053*a*, 5054, 5058, 5059, 5070, 5072, 5073, 5075, 5081, 5082, 5088, 5128, 5129, 5133, 5151, 5154, 5156, 5160, 5163, 5166, 5167, 5179, 5197, 5202, 5208, 5213, 5250, 5253, 5277, 5289, 5293, 5331, 5332, 5345, 5347, 5363, 5394, 5415, 5421, 5422, 5425, 5426, 5448, 5449, 5450, 5470, 5472, 5475, 5485, 5488, 5494, 5530, 5532, 5593, 5597, 5598, 5613, 5642, 5646, 5647, 5684, 5692, 5698, 5707, 5712, 5714, 5751, 5780, 5784, 5825, 5841, 5842, 5849, 5854, 5885, 5951, 5954, 5955, 5966, 5969, 5970, 5997, 6029, 6182, 6183, 6199, 6200, 6201, 6213, 6214, 6218, 6219, 6220, 6221, 6273, 6274, 6303, 6312, 6315, 6318, 6320, 6321, 6322, 6326, 6350, 6375, 6387, 6396, 6444, 6452, 6482, 6483, 6490, 6495, 6541, 6546.

2. REPORTS, COMMISSIONS, CONFERENCES, ETC.

28, 32, 33, 36, 73, 109, 129, 192, 196, 198, 199, 216, 231, 232, 245, 246, 247, 248, 249, 252, 255, 260, 292, 298, 306*b*, 343, 360, 406, 413, 414, 415, 501, 516, 688, 718, 733, 754, 763, 775, 843, 845, 847, 848, 871, 950, 953, 976, 1046, 1126, 1138, 1145, 1177, 1184, 1185, 1198, 1262, 1263, 1264, 1267, 1268, 1282, 1293, 1304, 1311, 1339, 1433, 1623*a*, 1627, 1628, 1684, 1685, 1795, 1818, 1820, 1855, 1856, 1858, 1859, 1860, 1899, 1926, 1958, 2106 to 2113, 2115 to 2122, 2149, 2150, 2155, 2249, 2250, 2251, 2273 to 2286, 2288, 2296, 2297, 2298, 2300, 2301, 2305, 2311, 2402, 2436, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2484, 2486, 2513, 2518, 2522, 2553, 2554, 2556, 2557, 2558, 2565, 2567, 2568, 2570, 2571, 2573, 2576, 2582, 2596, 2597, 2598, 2599, 2602, 2603, 2606, 2621, 2654, 2655, 2656, 2744, 2764, 2773, 2777, 2791, 2800, 2801, 2802, 2876, 2891, 2892, 2894, 2898, 2922, 2961, 2962, 2967, 2969, 3057, 3071, 3072, 3108, 3113*b*, 3163, 3165, 3260, 3342, 3352, 3353, 3367, 3368, 3373, 3375, 3376, 3377, 3378, 3407, 3447, 3449, 3450, 3520, 3640, 3662, 3666, 3667, 3782, 3784, 3785, 3786, 3787, 3788, 3790, 3810, 3811, 3820, 3926, 3927, 3932, 3934, 3973, 4045, 4047, 4058, 4087, 4089, 4224, 4247, 4261, 4352, 4356, 4357, 4362, 4363, 4364, 4477, 4478, 4479, 4481, 4482, 4484, 4485, 4488, 4491, 4494, 4640, 4659, 4702, 4703, 4716, 4717, 4848, 4941, 4944, 4976, 5093, 5141, 5142, 5157, 5198, 5215, 5303, 5304, 5305, 5306, 5307, 5310, 5313, 5315, 5316, 5387, 5403, 5404, 5405, 5406, 5409, 5411, 5413, 5417, 5418, 5439, 5459, 5481, 5515, 5520, 5605, 5679, 5727, 5732, 5746, 5748, 5751, 5753, 5756, 5758, 5760, 5762, 5771, 5882, 5907, 6031, 6033, 6103, 6104, 6105, 6106, 6130, 6131, 6167, 6319, 6335, 6336, 6394, 6529.

3. MORPHOLOGY

(Including histology and cytology)

39, 40, 41, 42, 46, 60, 97, 99, 100, 266, 267, 268, 269, 270, 271, 272, 273, 279, 282, 284, 285, 286, 307, 325 a , 326, 335, 352, 374, 382, 384, 385, 386, 387, 388, 389, 390, 398, 399, 400, 401, 402, 403, 404, 450, 451, 452, 491, 500, 503, 504, 517, 525, 531, 537, 538, 539, 543, 561, 616, 697, 698, 699, 722, 724, 725, 726, 727, 728, 729, 730, 731, 732 a , 742, 743, 752, 753, 813, 814, 815, 816, 828, 840 to 842, 858, 859, 860, 861, 862, 866, 868, 869, 879, 880, 881, 886, 926, 932, 937, 963, 972, 986, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1036, 1040, 1041, 1042, 1044, 1045, 1047, 1051, 1053, 1054, 1055, 1061, 1063, 1064, 1087, 1096, 1100, 1101, 1103, 1105, 1106, 1112, 1128, 1129, 1130, 1144, 1146, 1187, 1234, 1240, 1241, 1246, 1251, 1253, 1255, 1257, 1258, 1259, 1260, 1269, 1270, 1271, 1272, 1277, 1278, 1286, 1287, 1288, 1292, 1332, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1354, 1355, 1378, 1394, 1407, 1415, 1416, 1418, 1439, 1442, 1451, 1452, 1453, 1454, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1466, 1497, 1503, 1508, 1535, 1558, 1560, 1566, 1578, 1586, 1593, 1595, 1605, 1606, 1607, 1609, 1625, 1626, 1635, 1636, 1643, 1646, 1683, 1703, 1704, 1704 a , 1704 b , 1705, 1706, 1707, 1712, 1713, 1714, 1715, 1716, 1717, 1752, 1754, 1755, 1759, 1760, 1761, 1778, 1807, 1833, 1852, 1879, 1888, 1894, 1906, 2201, 2203, 2221, 2225, 226 1 , 2264, 2265, 2266, 2290, 2291, 2292, 2294, 2318, 2319, 2325, 2333, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2362, 2364, 2367, 2371, 2374, 2391, 2392, 2393, 2394, 2395, 2396, 2410, 2412, 2415, 2416, 2417, 2421, 2446, 2448, 2453, 2454, 2458, 2461, 2502, 2517, 2543, 2545, 2546, 2548, 2550, 2586, 2610, 2615, 2627, 2628, 2635, 2636, 2637, 2638, 2666, 2668, 2671, 2688, 2697, 2699, 2700, 2701, 2702, 2703, 2709, 2710, 2715, 2716, 2717, 2719, 2724, 2732, 2734, 2737, 2739, 2758, 2761, 2772, 2778, 2779, 2793, 2794, 2803, 2804, 2807, 2810, 2815, 2816, 2824, 2825, 2826, 2841, 2855, 2859, 2877, 2883, 2908, 2909, 2910, 2911, 2917, 2918, 2921, 2929, 2931, 2976, 2987, 2990, 2992, 2993, 2994, 2995, 3010, 3011, 3027, 3038, 3053, 3061, 3075, 3082, 3088, 3090, 3091, 3092, 3093, 3094, 3095, 3109, 3116, 3120, 3131, 3135, 3139, 3192, 3194, 3214, 3232, 3240, 3241, 3241 a , 3242, 3247, 3292, 3301, 3305, 3323, 3327, 3333, 3334, 3380, 3383, 3385, 3389, 3415, 3418, 3424, 3431, 3440, 3441, 3442, 3443, 3444, 3446, 3461, 3474, 3521, 3526, 3527, 3531, 3538, 3544, 3545, 3546, 3551, 3561, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3586,

3616, 3619, 3644, 3645, 3653, 3669, 3670, 3671, 3674, 3677, 3678, 3680,
3682, 3727, 3728, 3729, 3730, 3733, 3737, 3755, 3767, 3768, 3769, 3793,
3806, 3819, 3824, 3825, 3828, 3832, 3844, 3853, 3869, 3872, 3873, 3874,
3875, 3877, 3888, 3894, 3895, 3906, 3918, 3919, 3920, 3922, 3923, 3924,
3925, 3929, 3944, 3948, 3954, 3966, 3981, 3990, 3991, 3993, 3996, 3998,
3999, 4019, 4021, 4047, 4049, 4050, 4052, 4060, 4061, 406 2, 4068, 4079,
4080, 4127, 4149, 4150, 4151, 4152, 4153, 4181, 4190, 4197, 4203, 4207,
4208, 4209, 4218, 4219, 4220, 4222, 4223, 4225, 4230, 4231, 4232, 4252,
4254, 4263, 4277, 4307, 4341, 4347, 4348, 4387, 4412, 4419, 4429, 4447,
4448, 4455, 4465, 4466, 4467, 4468, 4469, 4470, 4471, 4499, 4524, 4526,
4527, 4528, 4529, 4533, 4543, 4544, 4545, 4546, 4548, 4549, 4550, 4556,
4558, 4607, 4611, 4624, 4633, 4636, 4652, 4663, 4664, 4684, 4685, 4700,
4701, 4707, 4708, 4709, 4710, 4727, 4731, 4732, 4733, 4734, 4736, 4737,
4739, 4741, 4742, 4761, 4763, 4781, 4787, 4788, 4789, 4791, 4792, 4798,
4807, 4810, 4815, 4819, 4820, 4821, 4822, 4823, 4824, 4837, 4840, 4841,
4853, 4854, 4872, 4873, 4885, 4927, 4928, 4929, 4930, 4931, 4932, 4933,
4934, 4935, 4936, 4937, 4946, 4949, 4956, 4957, 4958, 4959, 4979, 5027,
5028, 5029, 5032, 5040, 5041, 5046, 5052, 5053, 5053a, 5055, 5060, 5062,
5063, 5069, 5078, 5098, 5101, 5102, 5113, 5124, 5125, 5126, 5143, 5144,
5145, 5150, 5151, 5185, 5186, 5187, 5190, 5191, 5192, 5193, 5194, 5195,
5201, 5202, 5231, 5258, 5262, 5263, 5268, 5269, 5270, 5271, 5272, 5273,
5274, 5275, 5276, 5282, 5283, 5284, 5286, 5288, 5291, 5295, 5297, 5298,
5299, 5300, 5322, 5350, 5351, 5352, 5353, 5354, 5355, 5356, 5358, 5359,
5360, 5361, 5362, 5363, 5364, 5365, 5366, 5367, 5368, 5373, 5374, 5375,
5378, 5389, 5393, 5429, 5431, 5434, 5443, 5444, 5454, 5455, 5456, 5471,
5510, 5511, 5512, 5528, 5529, 5530, 5542, 5548, 5551, 5553, 5554, 5558,
5560, 5561, 5562, 5563, 5564, 5565, 5571, 5596, 5618, 5621, 5622, 5623,
5624, 5625, 5641, 5645, 5656, 5659, 5660, 5710, 5713, 5719, 5724, 5734,
5841, 5842, 5924, 5941, 5946, 5952, 5975, 5977, 5986, 5988, 5989, 5990,
5991, 5992, 5997, 6055, 6056, 6057, 6061, 6075, 6087, 6089, 6095, 6096,
6111, 6116, 6117, 6122, 6123, 6124, 6125, 6134, 6152, 6153, 6154, 6155,
6169, 6170, 6174, 6193, 6218, 6219, 6220, 6221, 6222, 6223, 6229, 6231,
6233, 6255, 6256, 6264, 6265, 6266, 6267, 6287, 6288, 6289, 6292, 6293,
6294, 6296, 6298, 6299, 6301, 6302, 6303, 6304, 6305, 6306, 6308, 6309,
6310, 6311, 6312, 6313, 6315, 6333, 6377, 6387, 6392, 6393, 6405, 6408,
6410, 6412, 6422, 6427, 6435, 6436, 6437, 6439, 6446, 6448, 6449, 6450,
6486, 6488, 6500, 6501.

4. DEVELOPMENT

(Embryonic and post-embryonic)

49, 70, 118, 120, 123, 325a, 381, 500, 502, 532, 535, 536, 537, 539, 592, 596, 601, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 617, 618, 619, 620, 621, 622, 624, 628, 629, 636, 638, 639, 640, 641, 642, 643, 644, 651 to 656, 657 to 666, 667 to 674, 675, 676, 677, 678, 680, 682, 683, 685, 686, 691, 692, 692a, 706, 707, 788, 802, 803, 807, 830, 831, 898, 899, 902, 908, 911, 912, 913, 1027, 1033, 1034, 1043, 1112, 1146, 1171, 1194, 1353, 1366, 1372, 1373, 1432, 1456, 1587, 1631, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1901, 1955, 2024, 2049, 2050, 2052, 2053, 2054, 2055 to 2071, 2073, 2074, 2076, 2077, 2219, 2222, 2258, 2270, 2349, 2362, 2377, 2385, 2490, 2537, 2550, 2586, 2701, 2733, 2735, 2762, 2816, 2875, 2913, 2926, 2934, 2986, 2988, 2999, 3001, 3037, 3041, 3043, 3047, 3087, 3109, 3171, 3172, 3173, 3264, 3381, 3536, 3537, 3546, 3547, 3548, 3740, 3806, 3821, 3828, 3846, 3921, 4051, 4052, 4080, 4129, 4164, 4245, 4259, 4309, 4310, 4343, 4455, 4537, 4538, 4539, 4540, 4541, 4542, 4648, 4663, 4723, 4724, 4766, 4789, 4791, 4793, 4794, 4802, 4803, 4806, 4807, 4808, 4809, 4817, 4822, 4831, 4836, 4837, 4841, 4897, 4926, 4946, 4955, 4960, 4961, 4963, 5011, 5012, 5046, 5064, 5085, 5161, 5162, 5183, 5184, 5189, 5223, 5257, 5258, 5259, 5260, 5261, 5262, 5264, 5267, 5268, 5278, 5280, 5281, 5282, 5294, 5296, 5309, 5370, 5372, 5432, 5433, 5434, 5437, 5454, 5455, 5464, 5479, 5493, 5513, 5539, 5557, 5560, 5561, 5562, 5563, 5567, 5571, 5624, 5625, 5628, 5629, 5630, 5631, 5633, 5654, 5655, 5702, 5735, 5841, 5842, 5968, 6019, 6092, 6099, 6165, 6166, 6222, 6230, 6235, 6237, 6287, 6324, 6326, 6329, 6413, 6414, 6415, 6416, 6446, 6447, 6448.

5. PHYSIOLOGY

(Including biochemistry)

11, 80, 83, 84, 85, 86, 87 to 90, 122, 177, 280, 287, 305, 308, 309, 310, 311, 373, 378a, 383, 387, 397, 408, 409, 458, 459, 511, 518, 532, 534, 535, 562, 567, 574, 575, 576, 577, 578, 579, 582, 585, 593, 594, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627 to 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 656, 657, 666, 667, 674, 675, 678, 679, 680, 681, 682, 683 to 686, 691, 692, 692a, 744, 746, 792, 795, 800, 817, 818, 819, 820, 821, 830, 831, 901, 905, 906, 908, 909, 910, 911, 912, 913, 931, 933, 934, 934a, 934b, 936, 939, 940, 942, 943, 944, 945, 946, 946a, 947, 949, 954, 957, 964,

974, 975, 1022, 1023, 1051, 1054, 1055, 1075, 1082, 1083, 1098, 1099,
1101, 1102, 1104, 1107, 1110, 1111, 1112, 1113, 1115, 1117, 1118, 1119,
1124, 1125, 1134, 1186, 1194, 1195, 1221, 1222, 1225, 1234, 1235, 1254,
1329, 1358, 1359, 1360, 1361, 1380, 1446, 1447, 1448, 1476, 1477, 1478,
1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1499, 1512, 1529,
1533, 1566, 1577, 1579, 1580, 1587, 1590, 1591, 1593, 1595, 1623,
1626, 1631, 1642, 1653, 1656, 1657, 1658, 1662, 1664, 1666, 1667, 1669,
1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1710,
1782, 1812, 1823, 1824, 1825, 1826, 1843, 1844, 1847, 1848, 1850, 1851,
1861, 1889, 1890, 1891, 1904_a, 1908, 1909, 1932, 1933_a, 1934, 1935, 1936,
1937, 1938, 1939, 1945, 1960, 1967, 1975, 1976, 1977, 1981, 1982, 1982_a,
1983, 1984, 1985, 1999, 2024, 2025, 2026, 2026_a, 2027, 2028, 2029, 2030,
2032, 2033, 2034, 2035, 2046, 2062, 2070, 2085, 2090, 2092, 2099, 2104,
2105, 2132, 2133, 2134, 2135, 2136, 2140, 2151, 2154, 2158, 2202, 2220,
2226, 2261, 2262, 2263, 2265, 2294, 2317, 2323, 2325, 2349, 2352, 2353,
2366, 2378, 2379, 2384_a, 2388, 2392, 2409, 2410, 2411, 2412, 2413, 2414,
2415, 2416, 2422, 2423, 2423_a, 2424, 2433, 2441, 2442, 2443, 2444, 2445,
2467, 2468, 2498, 2543, 2545, 2548, 2550, 2626, 2627, 2677, 2678, 2679,
2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2736,
2738, 2755, 2756, 2757, 2759, 2760, 2761, 2762, 2763, 2768, 2774, 2788,
2843, 2859, 2863, 2865, 2873, 2874, 2926, 2969, 2973, 2974, 2975, 2979,
2996, 3011, 3019, 3020, 3023, 3024, 3025, 3035_a, 3040, 3041, 3043, 3046_a,
3047, 3048, 3053, 3061, 3122, 3177, 3178, 3179, 3201, 3236, 3240, 3244,
3381, 3393, 3394, 3395, 3414, 3416, 3417, 3418, 3419, 3477, 3487, 3500,
3501, 3502, 3503, 3504, 3537, 3538, 3541, 3546, 3561, 3584, 3585, 3587,
3588, 3589, 3590, 3598, 3604, 3614, 3630, 3653, 3664, 3665, 3726, 3731,
3812, 3823, 3830, 3841, 3847, 3849, 3850, 3851, 3853, 3877, 3906, 3924,
3945, 3948, 3969, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4015, 4052,
4062, 4063, 4080, 4091, 4125, 4127, 4140, 4169, 4181, 4193, 4220, 4221,
4222, 4223, 4230, 4242, 4286, 4290, 4308, 4320, 4345, 4346, 4349, 4350,
4384, 4385, 4397, 4398, 4399, 4400, 4419, 4447, 4538, 4539, 4540, 4541,
4542, 4545, 4553, 4557, 4558, 4641, 4663, 4664, 4676, 4677, 4678, 4686,
4687, 4706, 4707, 4722, 4723, 4724, 4743, 4744, 4749, 4750, 4761, 4762,
4764, 4774, 4775, 4800, 4811, 4841, 4850_f, 4859, 4860, 4861, 4871, 4874,
4875, 4876, 4877, 4878, 4879, 4880, 4883, 4926, 4943, 4962, 4963, 4979,
4996, 5001, 5002, 5003, 5004, 5006, 5011, 5012, 5024, 5025, 5026, 5031,
5045, 5060, 5145, 5155, 5187, 5217, 5231, 5255, 5256, 5257, 5259, 5263,
5264, 5267, 5268, 5269, 5278, 5279, 5281, 5284, 5285, 5286, 5287, 528 8
5290, 5329, 5330, 5357, 5378, 5435, 5456, 5471, 5484, 5510, 5541, 5542,
5543, 5544, 5552, 5553, 5555, 5556, 5557, 5558, 5559 5560, 5561, 5562,

5563, 5564, 5565, 5566, 5567, 5568, 5572, 5573, 5594, 5600, 5603, 5614, 5628, 5629, 5630, 5631, 5632, 5633, 5636, 5643, 5644, 5646, 5654, 5655, 5656, 5685, 5702, 5709, 5841, 5842, 5849, 5946, 5978, 6059, 6060, 6071, 6076, 6077, 6078, 6087, 6089, 6099, 6114, 6120, 6121, 6138, 6144, 6165, 6166, 6168, 6215, 6223, 6231, 6232, 6233, 6234, 6236, 6237, 6255, 6256, 6257, 6258, 6259, 6263, 6281, 6288, 6320, 6321, 6322, 6323, 6324, 6325, 6326, 6327, 6367, 6368, 6376, 6408, 6411, 6412, 6417, 6484.

6. BIONOMICS AND ECOLOGY

(Including life-histories, ecology, parasites, predators, epidemics, etc.)

2, 5, 6, 10, 14, 15, 16, 17, 26, 27, 29, 31, 34, 35, 38, 43, 44, 45, 46, 49, 54, 55, 56, 57, 59, 62, 63, 64, 65, 66, 67, 69, 70, 71, 74, 75, 76, 78, 81, 82, 93, 95, 98, 102a, 103, 104a, 107, 108, 110, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 126, 127, 128, 128a, 130, 133, 135, 136, 137, 138, 139, 140, 142, 144, 145, 146, 148, 149, 150, 152, 153, 154, 155, 156, 158, 160, 161, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 176, 178, 185, 193, 194, 200, 206, 214, 220, 224, 226, 228, 229, 230, 233, 234, 235, 237, 238, 239, 243, 261, 262, 264, 275, 277, 282, 283, 284, 294, 296, 297, 301, 302, 303, 304, 306, 312, 313, 314, 315, 316, 318, 320, 321, 322, 324, 325, 327, 328, 329, 331, 332, 333, 334, 335, 337, 338, 339, 340, 341, 342, 344, 346, 348, 350, 353, 354, 355, 356, 357, 358, 359, 362, 363, 364, 365, 366, 367, 375, 376, 380, 383, 392, 395, 396, 407, 410, 411, 412, 416, 417, 418, 420, 422, 424, 427, 429, 430, 440, 441, 443, 445, 446, 455, 456, 457, 460, 461, 462, 463, 464, 465, 466, 469, 470, 471, 475, 477, 479, 481, 482, 484, 489, 490, 493, 494, 496, 497, 498, 505, 506, 510, 512, 513, 514, 515, 519, 520, 521, 522, 529, 533, 534, 535, 536, 540, 541, 544, 546, 547, 549, 550, 551, 552, 554, 555, 560, 563, 465, 568, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 583, 584, 586, 587, 588, 589, 591, 593, 594, 687, 688, 690, 694, 695, 696, 697, 703, 719, 720, 721, 722, 723, 732, 732b, 732c, 733a, 733d, 733e, 734, 735, 736, 738, 740, 741, 747, 749, 755, 756, 759, 761, 762, 764, 765, 766, 767, 768, 771, 772, 774, 776, 778, 779, 780, 781, 782, 783, 784, 785, 787, 788, 796, 797, 798, 799, 801, 803, 804, 805, 806, 807, 808, 810, 811, 812, 825, 826, 827, 829, 832, 833, 834, 835, 836, 837, 839, 845a, 845b, 845c, 846, 867, 870, 872, 874, 875, 876, 877, 878, 882, 884, 885, 890, 891, 892, 893, 894, 895, 902, 903, 904, 907, 914, 918, 919, 920, 924, 927, 928, 929, 930, 935, 948, 951, 952, 955, 958, 959, 960, 961, 962, 966, 969, 970, 971, 973a, 977, 978, 979, 980, 981, 982, 983, 985, 990, 996, 997, 998, 999, 1000, 1027, 1039, 1042,

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7. PHASES

(Including biometry.)

7,58, 94, 294, 299, 318, 382, 419, 449, 527, 760, 764, 765, 766, 769, 877, 967, 1104, 1112, 1158, 1159, 1172, 1229, 1394, 1436, 1491, 1540, 1587, 1730, 1731, 1747, 1748, 1866, 2026a, 2169, 2179, 2542, 2694, 2700, 2701, 2742, 2744, 2745, 2749, 2753, 2833, 2834, 2870, 2872, 2932, 3231, 3249, 3364, 3434, 3435, 3436, 3458, 3519, 3541, 3542, 3543, 3553, 3636, 3639, 3641, 3682, 3683, 3684, 3685, 3764, 3817, 3844, 3884, 3885, 3886, 3887, 3943, 3970, 3971, 4018, 4026, 4052, 4076, 4080, 4133, 4197, 4239, 4252, 4256, 4269, 4282, 4305, 4342, 4431, 4438, 4443, 4499, 4524, 4647, 4665, 4700, 4792, 4805, 4810, 4812, 4814, 4816, 4817, 4819, 4820, 4822, 4826, 4829, 4830, 4838, 4842, 4843, 4847, 4849, 4850, 4853, 4854, 4855, 4874, 4881, 4882, 4898, 4905, 4906, 5056, 5078, 5100, 5138, 5148, 5187, 5437, 5440, 5581, 5592, 5621, 5734, 5841, 5842, 5895, 5941, 5947, 5952, 5968, 5975, 5977, 5995, 6029, 6035, 6098, 6207, 6279, 6365, 6421, 6434, 6504, 6521, 6528, 6532, 6535, 6537, 6539, 6544.

8. EVOLUTION, PHYLOGENY, GENETICS, ETC.

12, 61, 94, 99, 100, 423, 454, 857, 877, 965, 1005, 1006, 1024, 1025, 1026, 1028, 1029, 1035, 1037, 1038, 1052, 1076, 1240, 1241, 1256, 1348, 1353, 1356, 1413, 1414, 1419, 1436, 1516, 1608, 1648*a*, 2211, 2223, 2224, 2291, 2486, 2526, 2912, 2930, 2960, 3366, 3440, 3467, 3574, 3576, 3579, 3642, 3643, 3644, 3685, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3940, 3941, 3987, 4093, 4144, 4193, 4251, 4252, 4254, 4299, 4413, 4419*a*, 4459, 4509, 4544, 4545, 4546, 4547, 4548, 4549, 4550, 4551, 4556, 4580, 4583, 4584, 4588, 4604, 4667, 4700, 4729, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4748, 4801, 4815, 4816, 4817, 4826, 4827, 4829, 4830, 4838, 4842, 4843, 4844, 4847, 4849, 4853, 4855, 4872, 4971, 5078, 5102, 5136, 5138, 5148, 5159, 5187, 5292, 5296, 5356, 5360, 5434, 5436, 5437, 5482, 5483, 5524, 5639, 5640, 5660, 5688, 5841, 5842, 5952, 6024, 6074, 6097, 6132, 6133, 6152, 6153, 6244, 6265, 6266, 6292, 6293, 6295, 6297, 6299, 6300, 6301, 6302, 6303, 6304, 6305, 6306, 6307, 6308, 6309, 6310, 6311, 6312, 6313, 6328, 6387, 6410, 6486, 6487, 6493, 6494.

9. CONTROL

1, 3, 4, 13, 19, 20, 21, 22, 23, 24, 25, 29, 30, 37, 50, 51, 52, 53, 72, 77, 91, 92, 104*a*, 105, 106, 115, 136, 141, 143, 162, 180, 183, 184, 186, 187*a*, 188, 190, 195, 197, 201, 203, 204, 205, 207, 208, 209, 210, 211, 212, 213, 215, 217, 219, 221, 222, 223, 225, 236, 240, 241, 242, 244, 250, 251, 253, 254, 256, 257, 258, 259, 263, 265, 289, 290, 291, 295, 306*b*, 317, 323, 336, 345, 347, 349, 368, 370, 371, 372, 373, 378, 381, 391, 407, 407*a*, 418, 420, 421, 424, 436, 437, 438, 439, 446, 453, 456, 467, 468, 472, 473, 474, 478, 481, 507, 509, 510, 518, 526, 548, 551, 556, 564, 566, 589, 688, 689, 732*d*, 733*b*, 733*c*, 737, 739, 747, 749, 757, 758, 760, 770, 773, 777, 786, 789, 790, 791, 792, 793, 794, 822, 823, 824, 845*a*, 845*b*, 845*c*, 850, 855, 896, 902, 947, 960, 961, 966, 967, 968, 988, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1001, 1003, 1049, 1050, 1056, 1062, 1135, 1140, 1142, 1143, 1156, 1178, 1183, 1195, 1196, 1197, 1198, 1216, 1223, 1230, 1233, 1236, 1245, 1248, 1275, 1279, 1280, 1283, 1290, 1291, 1294, 1296, 1303, 1329, 1336, 1337, 1338, 1367, 1369, 1374, 1379, 1406, 1418, 1427, 1437, 1440, 1443, 1450, 1455, 1469, 1473, 1474, 1488, 1500, 1501, 1507, 1521, 1522, 1523, 1527, 1548, 1559, 1561, 1568, 1574, 1576, 1583, 1584, 1589, 1600, 1649, 1650, 1672, 1677, 1678, 1680, 1686, 1726, 1738, 1741, 1742, 1749, 1750, 1751, 1763, 1764, 1767, 1768, 1774, 1810, 1828, 1829, 1830, 1831, 1838, 1873, 1874, 1876, 1877, 1905, 1910, 1912, 1913, 1914, 1915, 1916, 1918, 1920, 1921, 1922, 1923, 1924, 1928, 1929, 1930, 1931, 1948, 1962, 1963, 1946,

1974, 1988, 1989, 1998, 2007, 2008, 2009, 2012, 2021, 2044, 2048, 2078, 2079, 2080, 2082, 2083, 2084, 2088, 2089, 2114, 2140, 2141, 2147, 2149, 2153, 2156, 2159, 2161, 2162, 2163, 2164, 2165, 2167, 2168, 2170, 2170a, 2178, 2187, 2189, 2190, 2193, 2199, 2210, 2214, 2215, 2217, 2218, 2249, 2250, 2251, 2252, 2253, 2254, 2259, 2306, 2307, 2323, 2372, 2380, 2384, 2405, 2406, 2407, 2408, 2422, 2427, 2431, 2437, 2471, 2473, 2503, 2510, 2512, 2514, 2515, 2516, 2523, 2531, 2533, 2534, 2539, 2540, 2551, 2559, 2560, 2564, 2572, 2577, 2579, 2584, 2585, 2591, 2592, 2593, 2594, 2595, 2600, 2605, 2607, 2619, 2620, 2632, 2634, 2644, 2649, 2652, 2708, 2710a, 2721, 2728, 2728a, 2741, 2772a, 2775, 2788, 2791, 2827, 2830, 2839, 2840, 2879, 2880, 2887, 2888, 2893, 2899, 2901, 2902, 2923, 2938, 2939, 2945, 2946, 2947, 2950, 2951, 2951a, 2971, 2981, 2982, 2983, 2984, 2985, 2991, 3002, 3003, 3008, 3022, 3030, 3057, 3060, 3067, 3077, 3078, 3079, 3081, 3083, 3086, 3097, 3098, 3105, 3106, 3108, 3110a, 3111a, 3112d, 3118, 3123, 3124, 3128, 3130, 3132, 3137, 3138, 3143, 3147, 3148, 3151, 3157, 3158, 3159, 3160, 3164, 3165, 3166, 3168, 3169, 3180, 3190, 3191, 3197, 3198, 3204, 3205, 3206, 3209, 3210, 3218, 3251, 3253, 3254, 3263, 3315, 3327, 3331, 3332, 3341, 3343, 3349, 3355, 3356, 3357, 3358, 3371, 3379a, 3398, 3399, 3404, 3420, 3451, 3452, 3455, 3456, 3460, 3475, 3478, 3483, 3487, 3490, 3493, 3494, 3496, 3498, 3499, 3500, 3503, 3504, 3505, 3506, 3509, 3510, 3515, 3516, 3517, 3518, 3523, 3532, 3533, 3551, 3562, 3569, 3583, 3591, 3600, 3602, 3603, 3606, 3608, 3612, 3620, 3621, 3622, 3623, 3628, 3629, 3631, 3632, 3639, 3647, 3649, 3650, 3652, 3667, 3668, 3679, 3681, 3687, 3691, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3723, 3725, 3734, 3743, 3744, 3745, 3752, 3760, 3761, 3762, 3763, 3770, 3775, 3776, 3778, 3779, 3781, 3783, 3807, 3823, 3831, 3837, 3838, 3839, 3845, 3847, 3848, 3891, 3892, 3897, 3898, 3899, 3901, 3904, 3928, 3935, 3939, 3946, 3950, 3951, 3959, 3967, 3974, 3976, 3977, 3989, 3994, 4008, 4024, 4028, 4029, 4034, 4038, 4057, 4067, 4070, 4071, 4072, 4073, 4074, 4083, 4090, 4091, 4095, 4096, 4099, 4102, 4104, 4106, 4108, 4109, 4110, 4111, 4112, 4113, 4114, 4115, 4118, 4121, 4122, 4123, 4124, 4125, 4126, 4132, 4133, 4136, 4137, 4141, 4142, 4156, 4157, 4162, 4166, 4172, 4173, 4174, 4184, 4187, 4188, 4189, 4198, 4199, 4206, 4210, 4224, 4229, 4240, 4241, 4242, 4243, 4244, 4249, 4253, 4257, 4258, 4261, 4262, 4280, 4285, 4289, 4291, 4293, 4294, 4295, 4296, 4300, 4311, 4312, 4331, 4352, 4359, 4360, 4361, 4363, 4365, 4366, 4367, 4368, 4370, 4371, 4372, 4377, 4379, 4380, 4381, 4382, 4386, 4388, 4389, 4390, 4391, 4392, 4393, 4394, 4395, 4406, 4407, 4408, 4411, 4414, 4415, 4416, 4420, 4422, 4424, 4425, 4428, 4433, 4434, 4436, 4444, 4462, 4463, 4472, 4500, 4508, 4513, 4522, 4523, 4536, 4554, 4560, 4561, 4655, 4657, 4658, 4659, 4661, 4662,

4668, 4669, 4670, 4674, 4675, 4676, 4677, 4678, 4683, 4694, 4705, 4725, 4730, 4754, 4782, 4785, 4786, 4833, 4870, 4909, 4910, 4916, 4917, 4925, 4938, 4940, 4947, 4948, 4965, 4974, 4975, 4976, 4982, 4984, 4995, 4996, 5014, 5015, 5016, 5017, 5018, 5019, 5020, 5021, 5042, 5044, 5051, 5092, 5097, 5119, 5121, 5122, 5133, 5134, 5139, 5140, 5153, 5154, 5173, 5174, 5175, 5176, 5177, 5197, 5202, 5204, 5208, 5209, 5210, 5211, 5212, 5224, 5228, 5251, 5254, 5302, 5321, 5340, 5349, 5376, 5377, 5392, 5397, 5398, 5399, 5407, 5412, 5414, 5419, 5421, 5422, 5469, 5493, 5514, 5517, 5519, 5521, 5533, 5538, 5540, 5546, 5569, 5574, 5575, 5583, 5584, 5595, 5610, 5614, 5627, 5634, 5637, 5657, 5658, 5663, 5666, 5667, 5668, 5670, 5674, 5680, 5690, 5691, 5693, 5695, 5697, 5722, 5728, 5732, 5738, 5745, 5748, 5751, 5759, 5769, 5770, 5771, 5772, 5773, 5774, 5777, 5780, 5781, 5782, 5783, 5784, 5785, 5788, 5789, 5790, 5791, 5793, 5801, 5814, 5821, 5841, 5842, 5886, 5889, 5947, 5952, 5954, 5960, 5961, 5979, 5985, 5998, 6000, 6003, 6004, 6005, 6017, 6022, 6026, 6032, 6038, 6039, 6041, 6042, 6050, 6051, 6062, 6063, 6065, 6066, 6067, 6072, 6073, 6080, 6082, 6085, 6090, 6091, 6094, 6121, 6135, 6137, 6142, 6143, 6144, 6148, 6149, 6150, 6151, 6194, 6197, 6198, 6199, 6200, 6202, 6205, 6210, 6226, 6250, 6251, 6252, 6253, 6260, 6261, 6262, 6272, 6273, 6274, 6275, 6278, 6291, 6315, 6316, 6317, 6318, 6334, 6338, 6370_a, 6372, 6373, 6374_a, 6380, 6382, 6383, 6384, 6385, 6388, 6404, 6407, 6409, 6418, 6425, 6426, 6430, 6432, 6451, 6457, 6465, 6466, 6467, 6482, 6497, 6502, 6503, 6507, 6520, 6526, 6541, 6549, 6552.

10. ZOOGEOGRAPHY, FAUNISTICS AND TAXONOMY

9, 68, 75, 94, 99, 101, 102, 102_a, 104, 113, 144, 147, 157, 159, 182, 230, 274, 276, 283, 288, 306_a, 306_b, 319, 330, 339, 340, 351, 361, 379, 393, 394, 425, 426, 428, 429, 430, 431, 432, 434, 435, 440, 442, 444, 447, 448, 480, 481, 483, 497, 498, 527, 528, 545, 558, 559, 580, 586, 700, 700_a, 700_b, 700_c, 701, 702, 704, 705, 708, 709, 710, 711, 712, 713, 714, 715, 717, 748, 750, 751, 764, 811, 825, 845_a, 845_b, 845_c, 849, 851, 852, 853, 854, 863, 864, 865, 897, 921, 922, 923, 927, 951, 956, 973, 984, 987, 1002, 1027, 1065, 1066, 1067, 1068, 1069, 1076, 1077, 1077_a, 1079, 1080, 1132, 1147, 1149, 1151, 1152, 1154, 1155, 1157, 1160, 1162, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1172_a, 1173, 1175, 1176, 1199, 1228, 1239, 1300, 1301, 1302, 1351, 1382, 1383, 1389, 1530, 1531, 1534, 1536, 1537, 1538, 1539, 1541, 1542, 1543, 1544, 1545, 1550, 1551, 1569, 1572, 1573, 1582, 1632, 1786, 1796, 1799, 1800, 1801, 1802, 1839, 1900, 1918_a, 1968, 1969, 1970, 1971, 1978, 1979, 1982_a, 2004, 2019, 2040, 2051, 2098_a, 2100, 2123, 2133, 2174, 2175, 2176, 2180, 2181, 2206, 2235, 2236, 2237, 2238,

2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2256, 2324, 2335,
 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347,
 2350, 2358, 2363, 2365, 2432, 2434, 2449, 2450, 2451, 2452, 2511, 2524,
 2550, 2589, 2590, 2601, 2604, 2674, 2695, 2696, 2698, 2707, 2709, 2710,
 2717, 2720, 2748, 2750, 2778, 2779, 2786, 2797, 2798, 2805, 2806, 2808,
 2809, 2811, 2812, 2813, 2814, 2846, 2847, 2848, 2849, 2850, 2851, 2852,
 2853, 2854, 2856, 2857, 2858, 2860, 2871, 2872, 2914, 2915, 2916, 2948,
 2959, 2965, 2978, 3011, 3013, 3014, 3015, 3016, 3017, 3018, 3063, 3080,
 3096, 3102, 3126, 3142, 3170, 3186, 3208, 3246, 3247, 3248, 3250, 3255,
 3256, 3258, 3267, 3268, 3269, 3271, 3272, 3273, 3275, 3277, 3278, 3279,
 3280, 3281, 3283, 3284, 3285, 3286, 3287, 3289, 3290, 3291, 3296, 3297,
 3298, 3300, 3301, 3302, 3303, 3305, 3306, 3307, 3312, 3319, 3320, 3321,
 3322, 3325, 3326, 3327, 3335, 3336, 3339, 3388, 3438, 3439, 3445, 3455,
 3459, 3470, 3479, 3480, 3481, 3525, 3528, 3571, 3599, 3607, 3610, 3611,
 3624, 3635, 3657, 3658, 3659, 3660, 3661, 3672, 3673, 3692, 3693, 3694,
 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3704, 3705, 3735, 3736,
 3746, 3747, 3749, 3754, 3759, 3773, 3791, 3792, 3794, 3795, 3796, 3797,
 3818, 3876, 3879, 3908, 3910, 3912, 3914, 3949, 3952, 3984, 3988, 3996,
 3997, 4052, 4065, 4092, 4128_a, 4133, 4160, 4212, 4246, 4250, 4265, 4267,
 4279, 4316, 4317, 4323, 4324, 4330, 4336, 4337, 4339, 4340, 4343, 4344,
 4351, 4378, 4404, 4427, 4450, 4451, 4452, 4453, 4454, 4456, 4457, 4458,
 4555, 4569, 4570, 4571, 4572, 4573, 4574, 4576, 4577, 4578, 4579, 4580,
 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593,
 4594, 4595, 4596, 4597, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606,
 4607, 4608, 4609, 4610, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619,
 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631,
 4632, 4647, 4653, 4681, 4682, 4712, 4719, 4726, 4727, 4728, 4729, 4757,
 4773, 4832, 4844, 4851, 4856, 4857, 4858, 4893, 4906, 4908, 4918, 4921,
 4927, 4932, 4951, 4952, 4953, 4954, 4956, 4967, 4969, 4985, 4986, 4987,
 4988, 4989, 4990, 4991, 4992, 5007, 5010, 5034, 5039, 5046, 5049, 5050,
 5059, 5066, 5068, 5071, 5076, 5077, 5084, 5086, 5087, 5108, 5118, 5127,
 5128, 5135, 5151, 5152, 5163, 5167, 5169, 5170, 5171, 5181, 5220, 5234,
 5235, 5236, 5237, 5238, 5239, 5240, 5241, 5242, 5243, 5244, 5245, 5246,
 5295, 5341, 5388, 5429, 5436, 5447, 5451, 5452, 5467, 5486, 5491, 5506,
 5508, 5525, 5531, 5549, 5550, 5576, 5586, 5587, 5588, 5589, 5590, 5591,
 5593, 5597, 5617, 5618, 5619, 5642, 5649, 5650, 5651, 5652, 5653, 5678,
 5681, 5683, 5705, 5708, 5712, 5714, 5733, 5736, 5737, 5764, 5766, 5776,
 5778, 5779, 5786, 5787, 5792, 5794, 5795, 5795_a, 5796, 5797, 5798, 5799,
 5800, 5802, 5803, 5804, 5806, 5808, 5809, 5810, 5811, 5812, 5813, 5816,
 5817, 5818, 5819, 5820, 5824, 5825, 5826, 5827, 5830, 5831, 5832, 5833,
 5834, 5835, 5836, 5837, 5838, 5839, 5840, 5841, 5842, 5844, 5846, 5847,
 5848, 5851, 5852, 5855, 5858, 5859, 5860, 5861, 5862, 5863, 5866, 5867,
 5868, 5871, 5877, 5878, 5883, 5888, 5891, 5893, 5894, 5896, 5897, 5898,
 5899, 5900, 5901, 5902, 5904, 5905, 5906, 5908, 5909, 5910, 5911, 5912,
 5913, 5914, 5915, 5916, 5917, 5918, 5919, 5921, 5922, 5923, 5924, 5926,
 5927, 5928, 5929, 5930, 5931, 5933, 5934, 5935, 5936, 5937, 5938, 5939,
 5944, 5949, 5950, 5956, 5957, 5959, 5963, 5964, 5971, 5973, 5974, 5980,
 6006, 6043, 6110, 6113, 6128, 6156, 6157, 6158, 6159, 6160, 6162, 6163,
 6164, 6173, 6196, 6202, 6218, 6219, 6220, 6221, 6239, 6240, 6241, 6242,
 6243, 6268, 6269, 6270, 6271, 6276, 6314, 6339, 6341, 6342, 6343, 6344,
 6345, 6346, 6347, 6348, 6349, 6350, 6351, 6352, 6353, 6354, 6355, 6356,
 6357, 6386, 6397, 6427, 6444, 6446, 6448, 6487, 6489, 6490, 6491, 6492,
 6493, 6494, 6495, 6501, 6506, 6512, 6518, 6519, 6548.

VI—FIRST SUPPLEMENT TO BIBLIOGRAPHIA ACRIDIDIORUM

CONTENTS

	Page
1. Introduction	551
2. List of References (1st Supplement)	552
3. Author Index (1st Supplement)	585
4. Subject Index (1st Supplement)	589

1. INTRODUCTION

The First Supplement to the *Bibliographia Acrididiorum* contains about 501 references which are chronologically distributed as follows, but it should be borne in mind that, as mentioned above in the Introduction (p. 13) to the Main Bibliography, it is complete only up to the end of the year 1954, though the readily available references published in 1955, 1956, and 1957 have also been included :—

Year	Number of references	Year	Number of references
1884 .	1	1948	1
1893 .	1	1949	4
1894 .	1	1950	54
1895	1	1951	136
1902 .	1	1952	9
“ 1902-1905 ”	1	1953	23
1925	1	1954	99
1926	1	1955	137
1929	2	1956	21
1936	2	1957	1
1939	1		
1941	1	TOTAL	501
1946 .	1		
1947 .	1		

A total of 160 new authors are included, these not being found in the Main Bibliography ; they are listed in the Author Index at the end, along with the other authors occurring in this Supplement.

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- SOUZA SANTOS, P. DE. 1954a.—See EDWARDS, G.A., SOUZA SANTOS, P. DE., SOUZA SANTOS, H. DE and SAWAYA, P. 1954.
- SOUZA SANTOS, P. DE. 1954b.—See SOUZA SANTOS, H.L. DE, EDWARDS, G. A., SOUZA SANTOS, P. DE and SAWAYA, P. 1954.

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T

- TAGHI ZADEH, F. 1955.—See DAVATCHI, A. and TAGHI ZADEH, F. 1955.
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V

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W

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X

Nil.

Y

7040. —Deleted.
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Z

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3. AUTHOR INDEX (1st Supplement).

This Author Index includes all authors listed in the First Supplementary Bibliography. To differentiate *new* authors, the names of authors which have already been included in the original author index of the Main Bibliography (*vide supra*, pp. 497), are marked with an asterisk (*) ; those not so marked are new.

A		B—concl'd.	
	PAGE		PAGE
ABDULLAH,—.	552, 576	BRUST, M.	554, 559, 584
ADAMOVIC, Z.R.	552	*BRUZZONE, R.M.	554
*[AFRICA.]	552	*BUCKLIN, D.H.	554
*ALBRECHT, F.O.	552	BURESH, I.	554, 576
*ALEXANDER, G.	552	BURTT, E.T.	554, 555
ANDERSON, N.L.	552	BUSNEL, R.G.	554, 555, 573, 576
*[ANONYMOUS.]	552		
*ARNOLDI, L.V.	552	C	
AUTRUM, H.	552	*CAÑIZO, DEL. J. . . .	555
AVAKYAN, G.D.	552	*CARLSON, J.G.	555, 560
		CARPENTER, F.M.	554, 555, 573
B		CARRUTH, L.A.	555, 560
*BACCETTI, B.	552	CARTHY, J.D.	555
BACKLUND, H.O.	552	*CATTON, W.T.	554, 555
BARAUD, J.	553	[CENTRAL OFFICE OF INFOR-	555
*BARBUT, M.	553	MATION, LONDON.]	
*BARNES, O.L.	553	*CHAPMAN, R.F.	555
BARNOFF, N.L.	553	*CHATTERJEE, S.N. . . .	555, 574
BASAVANA, G.P.N.	553	*CHAUDHURI, S.P.R.	556, 559
BAUCKE, O.	553	CHAVES OROZCO, L.	556
BAUGH, V.S.G.	553, 557	*CHEFURKA, W.	556, 576
*BEAMS, H.W.	553, 557, 580	*CHOPARD, L.	556, 571
*BEJ-BIENKO, G.YA.	553, 574	*COLOMBO, G.	556
*BHASIN, G.D.	553, 578	CORNWELL, P.B.	556
*BINDRA, O.S.	553, 576	*COSTANTINO, G.	556
BLOND, G.	553	*COTES, E.C.	556
*BODINE, J.H.	553, 583	D	
*BOLIVAR, I.	553	ANIEL, M.	556, 578
*BOSELLI, F.B.	553	DAVATCHI, A.	557, 580
BOUHELIER, R.	553	*DAVEY, J.T.	557
BRELSFORD, W.V.	554	DAVIES, D.A.L.	553, 557
*BRENIÈRE, J.	554	*DAVIS, J.J.	557
*BROUGHTON, W.B.	554, 573	*DE LERMA, B	557
*BROWN, E.S.	554	*DEMPSTER, J.P.	557
*BRUES, A.M.	554, 579, 580, 581	DEPIEDS, R.	557, 575, 577
*BRUES, C.T.	554, 555, 573	*DEVINE, R.L.	553, 557, 580
BRUNNER, Y N	554	DIGBY, P.S.B. . . .	557

D—concl'd.		H—concl'd.	
	PAGE		PAGE
DIRSH, V.M.	557, 558	*HOGAN, T.W.	560
DOBSIK, B.	558	*HOLBROOK, F. ..	560
DORST, H.E.	558, 572	HOLLANDE, A. ..	559, 560
DOWDY, W.W.	558	HOPKINS, L. ..	555, 560
DRETS, M.E.	558, 578	*HOYLE, G. ..	560
D'SOUZA, G.I.	558, 576	*HUKUSIMA, S. ..	561
*DUARTE, A.J.	558	*HUSAIN, M. ..	561
E		*HUXLEY, J. ..	561
*EDWARD, G.A.	558, 578, 579	I	
*ENIKEEV, I.F.	558	*[INDIA.] ..	561-570
*ERGENB, S.	558	*[INTERNATIONAL.] ..	562, 570
EVANS, W.L. ..	558	*[IRAN.] . ..	570
*EWER, D.W.	558	IWATA, K.	570, 575
F		J	
*FAURE, G.O. ..	558	JAWLOWSKI, H. ..	570
FIDLER, J.H.	558, 583	JEREMIC, M. ..	570
FRACKER, S.B.	558, 560	*JOLY, L.	570
FREDIANI, D.	559	*JOLY, P. ..	571
FRIEDLER, L.	559, 579	*JONES, F.M.	559, 571
FRY, W.J.	554, 559, 572, 584	K	
FURUKAWA, H. ..	559	*KARNY, H.H.	571
G		*KATIYAR, K.N. ..	571
GANAPATI, P.N.	559, 574	*KAWAMURA, KEN'YA	571
*GAULDEN, M.E.	559, 580, 581	KENNEY, J.W. ..	571, 577
GAY, F.J.	559	KERMACK, W.O.	571, 580
GRASSÉ, P.	559, 560	KETTLEWELL, H.B.D.	571
GREEN, O.M.	559	*KEVAN, D.K. MCE.	556, 571
GREENEWALT, C.H. ..	559, 571	*KEY, K.H.L.	571
*GUHA, A.	556, 559	KHAN, M.Q. ..	571
*GUICHARD, K.M.	559	*KILBY, B.A.	572, 575
*GUNN, D.L.	559	*KING, R.L.	572, 579
*GYRISCO, G.G.	559, 575	KNOWLTON, G. F. ..	558, 572
H		*KOZHANCHIKOV, I.V.	572
HALL, W.J. ..	560	KUBISTA, V. ..	572, 583
*HAMBLETON, E.J.	558, 560	KÜNCKEL D'HERCULAIS, J. [P.A.]	572
	560	L	
*HARRINGTON, N.G. ..	555, 560	*LA GRECA, M. ..	572
*HASKELL, P.T.	560	LANE, F.W. ..	572
HEWITT, J.S.	560	*LEAN, O.B. ..	572
*HINTON, H.E.	560	LEES, A.D. ..	572

L—concl'd.		PAGE
LEVINSON, Z.H.	.. ..	572
LEVKOVICH, V.G.	.. ..	572, 584
L'HERITIER, G.	.. ..	572
*LIEBERMANN, J.	.. ..	572
LINDE, F.A.	.. ..	559, 572, 584
*LOHER, W.	.. ..	554, 555, 576

M

*MACNAY, C.G.	.. ..	573
*MAKHOTIN, A.A.	.. ..	573
*MAKINO, S.	.. ..	573, 575
MALHOTRA, S.K.	.. ..	573
*MALLAMAIRE, A.	.. ..	573, 576
*MARAN, J.	.. ..	573
MARIKOVSKII, P.I.	.. ..	573
*MEDLER, J.T.	.. ..	573
MEHRA, B.P.	.. ..	573
MELANDER, A.L.	.. ..	554, 555, 573
MELNICHENKO, A.N.	.. ..	573
MENON, P.K.B.	.. ..	574
MERTON, F.	.. ..	574
MILNES, C.	.. ..	574, 581
[MINISTRY OF AGRICULTURE AND FISHERIES, GREAT BRITAIN.]	.. ..	574
MISHCHENKO, L.L.	.. ..	553, 574
MORDVINOVA, A.M.	.. ..	574, 584
MORLEY, F.H.W.	.. ..	574, 583
MOUTOUS, G.	.. ..	574, 577
MRUTYUNJAYA DEVI, C. S. [MISS].	.. ..	559, 574
MUDIE, F.	.. ..	574
*MUKERJI, S.	.. ..	555, 574, 578
MULLER, G.	.. ..	574
*MUNRO, J.A.	.. ..	574
MURAI, S.	.. ..	574

N

NAGATOMI, A.	.. ..	570, 575
*NAKAHARA, H.	.. ..	573, 575
*NAKANIBHI, Y.H.	.. ..	573, 575
NANTA, J.P.	.. ..	575
[NEPAL.]	.. ..	575
NEUNZIG, H.H.	.. ..	559, 575
NEVILLE, E.	.. ..	572, 575
*NEWTON, R.C.	.. ..	575, 576, 579
NICOLI, R.M.	.. ..	557, 575, 577
NICKERSON, B.	.. ..	575

O

	PAGE
OB-OLENSKY, G.	575
OGEL, S.	575
OGLOBLIN, A.	575
OSBURN, W.S.	575

P

*PARKER, J.R.	575, 576, 579
*PASQUIER, R.	576
PASQUINELLI, F.	555, 573, 576
*PEPPER, J.H.	556, 576
*PESHEV, G.	554, 576
PEYTOUREAU, A.	576
PFRIMMER, T.R.	576
PHILBY, H. ST. J.	576
PINEAU, J.	576
*PRADHAN, S.	552, 553, 558, 576
*PROTSENKO, A.I.	576
*PRUTHI, H.S.	576
*PUMPHREY, R.J.	576
PYNE, C.K.	576, 577

Q

Nil.

R

RAL CLYFFE-ROBERTS, H.	577
*RAGGE, D.R.	577
*RAINEY, R.C.	577
RANQUE, J.	557, 575, 577
RAWICZ, S.	577
*RAY-CHAUDHURI, S.P.	576, 577
REID, E.T.M.	577
*REMAUDIBRE, G.	577
*RICHARDS, A.G.	571, 577
*RICHARDS, O.W.	577, 583
ROBERTS, H.S.	577
ROBERTSON, I.A.D.	577
*ROBLLOT, M.	577
ROEHRICH, R.	574, 577
*ROONWAL, M.L.	553, 578
ROSS, K.F.A.	578
ROY, J.	573, 578

S	
	PAGE
*SAEZ, F.A.	558, 578, 579
*SALT, R.W.	578
SAMSHINYAK, K.	556, 578
*SARKAR, I.	578
*SAWAYA, P.	558, 578, 581
SESHADRI, A.R.	578
*SHAFIQ, S.A.	578
SHARMA, A.K.	574, 578
*SHAROV, A.G	578
*SHOTWELL, R.L.	575, 576, 579
SHVARZ, S.S.	579
SILVERA, H.E.	578, 579
SIRIEZ, H.	579
SKERRETT, E.J.	579, 580, 583
*SLIFER, E.H.	554, 572, 579, 580, 581
*SMITH J.N.	.. 559, 579
*SMITH, K.D.	579
*SMITH, R.C.	579
SOLARI, C.L.	578, 579
SOUZA SANTOS, H. DE	558, 578, 579
SOUZA SANTOS, P. DE	558, 578, 579
*SRIVASTAVA, A.S.	580
STALL, G.B.	580, 583
*ST. AMAND, G.S.	559, 580, 581
*ST. AMAND, W.	580
STEIN, J.M.	571, 580
*STEINHAUS, E.A.	580
*STEPHENSON, P.R.	580
STRICH, M.C.	580
STRICH-HALBWACHES, M.C. ..	580
STRINGER, A.	579, 580, 581
SUOMALAINEN, H.O.T.	580
SUR, S.K.	580
SVIHLA, G.	554, 579, 580, 581

T	
TAGHI ZADEH, F.	557, 580
*TAHMISIAN, T.N.	553, 554, 557, 579, 580, 581
TAYLOR, T.H.C.	581
TEYROVSKY, V.	581
THEODORIDES, J.	581
THOMPSON, B. ..	581
*THORPE, W.H.	581
*TINKHAM, E.R. ..	581
TOMPKINS J.M.R.	574, 581

T—concl'd.	
	PAGE
TOTTER, J.R.	559, 580, 581
TSVILENEVA, V.A. . ..	581
TSYPLENKOV, E.P. ..	581

U

[UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANISATION.]	581
*UVAROV, B.P.	581, 582

V

VACLAV, V.	582
VALLETTA, A.	582
VANNUCCI, M.	582
VAUGHAN-FOWLER, R. ..	582
*VAYSSIÉRE, P.	582
*VESEY-FITZGERALD, D.F. ..	582
*VILARDEBO, A.	582
*VINOKUROV, G.M.	582
VUILLAUME, M.	582
VUKCEVIC, R.	582

W

WAGSTAFFE, R.	558, 583
*WAKELAND, C.	583
WALLACE HERBERT, S.	583
*WALOFF, N.	577, 583
WATANABE, C.	583
WELLINGTON, W.G.	583
WENIG, K.	572, 583
*WEST, W.L.	553, 583
*WHITE, M.J.D.	574, 583
*WILDE, J. DE.	580, 583
*WILLE, T.J.E. . . .	583
*WILLEMSE, C.	583
WOODCOCK, D.	579, 580, 583
*WULFF, V.J.	554, 559, 572, 584

X

Nil.

Y

YATZYNA, L.T.	584
*YORK, G.T.	584

Z

*ZAKHAROV, L.Z.	572, 574, 584
*ZAKHVATKIN, A.A.	584
ZOLOTAREVSKY, B. .. .	584

4. SUBJECT INDEX. (1st Supplement)

1. *General.*

(including historical records, bibliographies, text-books, techniques, etc.)

6560, 6561, 6566, 6578, 6586, 6588, 6618*a*, 6622, 6623, 6680, 6703, 6765, 6766, 6771, 6806, 6819, 6843, 6895, 6896, 6898, 6937, 6939, 6943, 6957, 6959, 7001, 7005, 7027.

2. *Reports, Commissions, Conferences, etc.*

6656, 6661, 6705, 6711, 6712, 6713, 6714, 6715, 6716, 6740, 6743, 6744, 6748, 6781, 6822, 6830, 6857, 6868, 6919, 6921, 7001.

3. *Morphology.*

(Including histology and cytology.)

6565, 6566, 6568, 6571, 6574, 6593, 6594, 6595, 6599, 6602, 6603, 6605, 6606, 6608, 6610, 6616, 6617, 6626, 6627, 6633, 6638, 6640, 6641, 6642, 6651, 6659, 6660, 6666, 6668, 6669, 6670, 6674, 6860, 6873, 6875, 6876, 6878, 6880, 6881, 6882, 6887, 6891, 6905, 6906, 6907, 6908, 6909, 6916, 6923, 6926, 6931, 6932, 6933, 6934, 6935, 6941, 6949, 6951, 6952, 6953, 6954, 6958, 6962, 6965, 6968, 6969, 6970, 6972, 6973, 6975, 6977, 6980, 6981, 6982, 6986, 6990, 6993, 6994, 6997, 7000, 7007, 7016, 7032, 7033, 7034, 7035, 7079.

4. *Development.*

(Embryonic and post-embryonic.)

6555, 6579, 6591, 6606, 6628, 6644, 6664, 6898, 6947, 6963, 6989, 6994, 6995.

5. *Physiology.*

(Including biochemistry.)

6562, 6570, 6586, 6587, 6591, 6593, 6594, 6595, 6596, 6597, 6598, 6599, 6603, 6605, 6606, 6610, 6617, 6626, 6627, 6629, 6636, 6638, 6639, 6645, 6646, 6658, 6659, 6660, 6666, 6667, 6668, 6672, 6845, 6860, 6882, 6883, 6887, 6890, 6892*a*, 6893, 6894, 6898, 6899, 6900, 6903, 6918, 6927, 6930, 6931, 6932, 6933, 6935, 6938, 6942, 6945, 6946, 6947, 6950, 6952, 6953, 6956, 6972, 6976, 6977, 6980, 6982, 6983, 6989, 6992, 6993, 6994, 6995, 6996, 6997, 6999, 7002, 7005, 7023, 7025, 7031.

6. *Bionomics and Ecology.*

(Including life-histories, ecology, parasites, predators, epidemics, etc.).

6554, 6555, 6559, 6561, 6564, 6567, 6569, 6570, 6572, 6577, 6578, 6582, 6583, 6584, 6589, 6590, 6592, 6595, 6599, 6600, 6601, 6603, 6607, 6609, 6613, 6618a, 6619, 6620, 6621, 6622, 6636, 6637, 6638a, 6639, 6643, 6644, 6649, 6653, 6654, 6655, 6656, 6657, 6662, 6664, 6665, 6672, 6673, 6676, 6677, 6678, 6681, 6683, 6684, 6686, 6687, 6688, 6689, 6690, 6691, 6692, 6693, 6694, 6695, 6696, 6697, 6698, 6699, 6700, 6701, 6702, 6703, 6704, 6706, 6707, 6708, 6709, 6710, 6716, 6717, 6718, 6719, 6720, 6721, 6722, 6723, 6724, 6725, 6726, 6727, 6728, 6729, 6730, 6731, 6732, 6733, 6734, 6735, 6736, 6737, 6738, 6739, 6740, 6741, 6744, 6745, 6746, 6747, 6753, 6754, 6755, 6756, 6757, 6758, 6759, 6760, 6762, 6763, 6764, 6772, 6773, 6774, 6775, 6776, 6778, 6784, 6785, 6786, 6787, 6788, 6791, 6793, 6796, 6798, 6799, 6800, 6801, 6802, 6803, 6804, 6806, 6807, 6809, 6811, 6812, 6813, 6814, 6815, 6816, 6817, 6818, 6819, 6820, 6821, 6823, 6825, 6827, 6828, 6831, 6832, 6833, 6834, 6837, 6838, 6839, 6841, 6848, 6849, 6850, 6851, 6853, 6854, 6855, 6856, 6858, 6859, 6861, 6862, 6863, 6864, 6865, 6872, 6874, 6879, 6889, 6892, 6896, 6897, 6904, 6912, 6914, 6915, 6917, 6919, 6924, 6926, 6927, 6928, 6929, 6938, 6940, 6943, 6944, 6948, 6955, 6957, 6959, 6960, 6961, 6963, 6964, 6966, 6974, 6978, 6984, 6985, 6987, 6988, 6991, 6992, 6998, 7002, 7003, 7005, 7007a, 7008, 7013, 7014, 7018, 7019, 7020, 7021, 7022, 7024a, 7025, 7026, 7031, 7036, 7041, 7042, 7043, 7044, 7045, 7046, 7047.

7. *Phases.*

(Including biometry.)

6621, 6922, 6933, 6934, 6936, 6961, 6965, 6976, 7035, 7041.

8. *Evolution, Phylogeny, Genetics, etc.*

6674, 6971.

9. *Control.*

6554, 6558, 6563, 6569, 6583, 6585, 6590, 6599, 6604, 6618, 6618a, 6620, 6644, 6652, 6657, 6662, 6663, 6665, 6673, 6675, 6677, 6679, 6682, 6685, 6696, 6700, 6715, 6721, 6722, 6742, 6743, 6744, 6747, 6748, 6749, 6750, 6751, 6752, 6753, 6756, 6761, 6763, 6764, 6765, 6767, 6768, 6769, 6770, 6771, 6774, 6777, 6778, 6779, 6780, 6781, 6782, 6783, 6789, 6792, 6794, 6795, 6797, 6801, 6805, 6808, 6810, 6822, 6824, 6826, 6830, 6835, 6836, 6840, 6842, 6844, 6845, 6846, 6847, 6848, 6851, 6852, 6856, 6857, 6861, 6864, 6866, 6867, 6869, 6870, 6871, 6889, 6900, 6910, 6913, 6914, 6918, 6921, 6925, 6927, 6930, 6944, 6945, 6946, 6956, 6960, 6964, 6978, 6979, 6987, 6991, 6996, 6998, 7004, 7017, 7018, 7019, 7023, 7024, 7026, 7028, 7036, 7043, 7045, 7047.

10. *Zoogeography, Faunistics and Taxonomy.*

6553, 6556, 6557, 6560, 6563, 6567, 6573, 6574a, 6575, 6576, 6577, 6580, 6581, 6588, 6589, 6592, 6611, 6612, 6614, 6615, 6620, 6624, 6630, 6631, 6632, 6633, 6634, 6635, 6637, 6638a, 6647, 6650, 6877, 6884, 6885, 6886, 6888, 6901, 6902, 6911, 6920, 6939, 6951, 7006, 7009, 7010, 7011, 7012, 7015, 7029, 7030, 7037, 7038, 7040, 7043.

VII—SECOND SUPPLEMENT TO BIBLIOGRAPHIA ACRIDIDIORUM

CONTENTS

	Page
1. Introduction	591
2. List of References (2nd Supplement)	592
3. Author Index (2nd Supplement)	607
4. Subject Index (2nd Supplement)	610

1. INTRODUCTION

The Second Supplement to the *Bibliographia Acrididiorum* contains approximately 201 references which are chronologically distributed as follows. As already mentioned above (pp. 13 and 551), the scope of this Bibliography is only up to the end of the year 1954, but papers published during 1955-57 have also been included where readily available, but no effort has been made to make these years complete.

Year	Number of references
1949	1
1950	0
1951	0
1952	1
1953	3
1954	14
1955	35
1956	130
1957	17
TOTAL	201

A total of 93 *new* authors are included here, these not being found either in the Main Bibliography or in the First Supplement; they are listed in the Author Index at the end along with the other authors occurring in this Supplement.

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V

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W

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X

Nil.

D		PAGE		J		PAGE	
DADD, R. H.	. . .	595		JENSEN, M.	. . .	598,606	
†*DAVEY, J. T.	. . .	595,598		*JOHNSTON, H. B.	. . .	595,598	
†*DAVIS, J. J.	. . .	595		†*JOLY, L.	. . .	597,598,599	
*DAVLETSHINA, A. G.		595,607		†*JOLY, P.	. . .	597,598,599	
DELONG, D. M.	. . .	593,596		JONES, B. M.	. . .	599	
†*DEVINE, R. L.	593,596,602,605			*JUDD, W. W.	. . .	599	
†DIRSH, V. M.	. . .	596,606		K			
DOMENICHINI, G.	. . .	596		KALANDADZE, L. P.	. . .	599	
E				†*KATIYAR, K. N.	. . .	599	
†*EDWARDS, G. A.	. . .	596,604		*KENNEDY, J. S.	. . .	599	
*ELLIS, P. E.		592,596		KERR, (Jr.), T. W.	. . .	599,605	
F				†*KEVAN, D. K. McE.	. . .	599	
FINLAYSON, L. H.	. . .	596,604		KHALIFA, A.	. . .	599	
FISHMAN, W. H.	. . .	596		†*KILBY, B. A.	. . .	598,599	
FRÉZAL, P.	. . .	596		*KNOWLTON, G. F.	. . .	599	
FUKAMI, J.	. . .	596,605		KOTTE, W.	. . .	600	
G				*KOZHANCHIKOV, I. V.	. . .	600	
†*GAULDEN, M. E.	. . .	597		*KRAUSE, G.	. . .	600	
GEFFARY, J.	. . .	597		KRAUSE, J.	. . .	600	
GEFFRAY, Y. ^a.	. . .	597		L			
GONCALVES, C. R.	597,600,602			†*LA GRECA, M.	. . .	600	
GRANT, R.	. . .	597		LANFRANCO, G. G.	. . .	600	
GRANT (Jr.), H. J.	. . .	597		†*LEAN, O. B.	. . .	600	
†*GUNN, D. L.	. . .	597		LOFGREN, J. A.	. . .	600	
GUPTA, D. S.	. . .	597,601		†*LOHER, W.	. . .	594,600,602	
*GUPTA, V. K.	. . .	597,604		LOWE, A. D.	. . .	600	
H				M			
HALBWACHS, M.	597,598,599			MacCuaig, R. D.	. . .	600	
*HANDFORD, R. H.	. . .	597		MACÊDO, A.	. . .	597,600,602	
†*HASKELL, P. T.	. . .	597		†*MACNAY, C. G.	. . .	600	
†*HOGAN, T. W.		597		MALEK, S. R. A.	. . .	600	
HÖLZEL, E.	. . .	598		†*MALLAMAIRE, A.	. . .	600	
HOWDEN, G. F.	. . .	598,599		MANOCHA, B. D.	. . .	597,601	
†*HOYLE, G.	. . .	598		*MANNA, G. K.	. . .	601	
HUBER, F.	. . .	598		MATTHEWS, G. V. T.	. . .	601	
†*HUKUSIMA, S.	. . .	598		MASON, H. S.	. . .	601	
*HUNTER-JONES, P.	592,598			MATVEJEV, A.	. . .	601	
I				*MATVEJEV, S.	. . .	601	
[IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, LONDON.]	598			MIL'KOV, F. N.	. . .	601,603	
†*[INDIA.]	. . .	598		*MITCHENER, A. V.	. . .	601	
*IRZYKIEWICZ, H.	. . .	598,606		N			
*IVANOVA, T. S.	. . .	598		NASRAT, G. E.	. . .	601	
				NICHOLLS, C. F.	. . .	593,601	
				†NICKERSON, B.	. . .	601	

O		S—concl'd.	
	PAGE		PAGE
OHNUKI, Y.	601	SIKKA, H. L.	593, 604
*OKAY, S.	601	SINGH, A.	604
OSBORNE, F. W.	601	*SINGH, S.	597, 604
*OTANES, F. Q.	601	†*SLIFER, E. H.	596, 604
P		*SMITH, D. S.	604
PAGDEN, H. T.	602	SOUZA SANTOS, H. DE	596, 604
†PASQUINELLI, F.	594, 600, 602	SOUZA SANTOS, P. DE	596, 604
*PERRET, J.	602	SRIVASTAVA, F. D.	604
PLATT, D.	602	SRIVASTAVA, P. S.	604, 605
PORTELLA, L. N.	597, 600, 602	SRIVASTAVA, V. S.	604, 605
POWERS, E. L.	596, 602, 605	STEBAEV, I. V.	605
†*PROTSENKO, A. I.	602	†STRINGER, A.	605
†*PRUTHI, H. S.	602	STUCKEY, I. H.	599, 605
PUNT, A.	602	T	
*PUTNAM, L. G.	602, 604	*TAHMISIAN, T. N.	593, 596, 602, 605, 606
Q		TIDMARSH, C. E. M.	605
QUO, F.	602	TOMIZAWA, C.	596, 605
R		TUXEN, S. L.	605
†*RAINEY, R. C.	602	TYRER, F.	605
*RAO, Y. RAMCHANDRA.	602	U	
*REHN, J. A. G.	603	*UVAROV, B. P.	596, 605, 606
†*REMAUDIÈRE, G.	603	V	
RHODES, D.	603	VAN SKOIK, W. S.	606
RIKHTER, G. D.	601, 603	VAN SON, G.	606
*RISBEC, J.	603	*VERDIER, M.	592, 606
RIVISE, M.	603	†VUILLAUME, M.	606
†ROBERTSON, I. A. D.	603	W	
*ROBINSON, D.	603	WATERHOUSE, D. F.	598, 606
ROHDENDORF, B. B.	603	*WEIDNER, H.	606
*ROMANOW, W.	603	*WEIS-FOGH, T.	594, 598, 606
†*ROONWAL, M. L.	603	WINTERBERT, D.	606
S		*WOOD, H. E.	606
†*SALT, R. W.	603	WRIGHT, B. J.	605, 606
SAVAGE, A. A.	603	X	
†SAWAYA, P.	596, 604	Nil.	
*SAYER, H. J.	604	Y	
*SEN-GUPTA, G. C.	593, 604	YAKHONTOV, V. V.	595, 607
SHAW, E. I.	604	Z	
SHKLOV, N.	602, 604	ZEGLER-GUNDER, I.	607
SHTĒINBERG, D. M.	604	†ZOLTAREVSKY, B.	607
SHUMAKOV, E. M.	604		

4. SUBJECT INDEX (2ND SUPPLEMENT)

1. *General.*

(Including historical records, bibliographies, text-books, techniques, etc.)

7054, 7060, 7073, 7085, 7104, 7111, 7116, 7136, 7169, 7170, 7190, 7192, 7196, 7197, 7199, 7205, 7206, 7209, 7213, 7229, 7230, 7236, 7239.

2. *Reports, Commissions, Conferences, etc.*

7131, 7231, 7233.

3. *Morphology.*

(Including histology and cytology.)

7050, 7052*d*, 7057, 7058, 7061, 7065, 7067, 7071, 7074, 7076, 7084, 7093, 7094, 7107, 7108, 7113, 7129, 7133, 7134, 7135, 7137, 7138, 7164, 7167, 7174, 7175, 7176, 7177, 7208, 7212, 7219, 7225, 7240, 7241, 7242, 7243.

4. *Development.*

(Embryonic and post-embryonic.)

7051, 7067, 7091, 7128, 7139, 7140, 7141, 7149, 7153, 7154, 7183, 7184, 7200, 7211, 7226, 7237.

5. *Physiology.*

(Including biochemistry.)

7049, 7052, 7060, 7067, 7068, 7076, 7080, 7081, 7082, 7086, 7090, 7091, 7093, 7095, 7109, 7110, 7111, 7116, 7122, 7123, 7124, 7127, 7128, 7129, 7135, 7139, 7140, 7141, 7145, 7150, 7161, 7162, 7169, 7175, 7177, 7185, 7186, 7201, 7207, 7211, 7217, 7220, 7222, 7224, 7226, 7228, 7235, 7237, 7238, 7247.

6. *Bionomics and Ecology.*

(Including life-histories, ecology, parasites, predators, epidemics, etc.)

7048, 7053, 7054, 7055, 7059, 7062, 7063, 7067, 7068, 7070, 7072, 7075, 7078, 7081, 7082, 7083, 7085, 7086, 7089, 7090, 7095, 7096, 7097, 7098, 7099, 7100, 7101, 7102, 7106, 7109, 7110, 7115, 7118, 7119, 7120, 7121, 7125, 7130, 7132, 7142, 7144, 7145, 7147, 7149, 7150, 7151, 7152, 7157, 7158, 7163, 7165, 7166, 7168, 7180, 7182, 7183, 7184, 7187, 7188, 7189, 7190, 7192, 7195, 7196, 7197, 7198, 7200, 7202, 7203, 7204, 7209, 7210, 7215, 7216, 7220, 7221, 7223, 7227, 7232, 7234, 7237, 7244.

7. *Phases.*

(Including biometry.)

7051, 7096, 7097, 7120, 7138, 7146, 7175, 7217.

8. *Evolution Phylogeny, Genetics, etc.*

7051, 7052, 7148, 7217.

9. *Control.*

7053, 7072, 7092, 7112, 7114, 7115, 7118, 7119, 7121, 7125, 7132, 7147, 7151, 7152, 7159, 7160, 7161, 7162, 7166, 7173, 7178, 7179, 7181, 7182, 7185, 7187, 7189, 7191, 7224, 7228, 7233, 7235, 7245, 7248.

10. *Zoogeography, Faunistics and Taxonomy.*

7052d, 7056, 7064, 7067, 7069, 7070, 7087, 7088, 7103, 7104, 7105, 7117, 7126, 7136, 7143, 7155, 7156, 7171, 7193, 7194, 7214, 7218, 7223, 7246.