

11. Acknowledgements

We gratefully acknowledge the help of Andrew Polaszek, London, for providing us with photographs of certain bee species and Michael Engel, Lawrence (Kansas), Fritz Gusenleitner, Linz, and Maximilian Schwarz, Ansfelden, for loan of rare bee taxa for imaging.

12. About the authors



Connal Eardley (°1954) has worked for 32 years as a bee taxonomist with the Plant Protection Research Institute. His primary research interest is in Afrotropical bees. However, he is keenly interested in the conservation of pollinator biodiversity. He has published over 90 scientific articles, many of them taxonomic revisions of bee genera, and contributed to several books on bee conservation and the importance of bees in natural and agro-ecosystems.



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Appendix 1 – Families, subfamilies, genera and subgenera of the bees of sub-saharan Africa with numbers of described species per genus and publications that may be used to identify the species. Species numbers from Eardley & Urban (in press).

Family and Subfamily	Genus	Subgenus	No. sp.	Reference needed to identify species
Colletidae				
Colletinae	<i>Colletes</i>		64	Kuhlmann (2005, 2007 (part)). Being revised by Kuhlmann.
Colletinae	<i>Scrapter</i>		43	Eardley (1996); Davies <i>et al.</i> (2005); Davies & Brothers (2006).
Hylaeinae	<i>Calloprosopis</i>		1	Snelling (1985). Being revised by Dathe.
Hylaeinae	<i>Hylaeus</i>	<i>Alfkenylaeus</i>	86	Snelling (1985). Being revised by Dathe.
		<i>Cornylaeus</i>		
		<i>Deranchylaeus</i>		
		<i>Metylaeus</i>		
		<i>Nothylaeus</i>		
		<i>Prosopisteron</i>		
Andrenidae				
Andreninae	<i>Andrena</i>		10	Eardley (2007, part).
Panurginae	<i>Borgatomelissa</i>		1	Patiny (2000b).
Panurginae	<i>Melitturga</i>		4	Eardley (1991c); Patiny (2004a & c).
Panurginae	<i>Meliturgula</i>		10	Eardley (1991c, 2009a); Patiny (1999a & b, 2000a); Eardley 2009a.
Panurginae	<i>Mermiglossa</i>		1	Eardley (1991c).
Halictidae				
Rophitinae	<i>Systropha</i>		9	Patiny (2004b); Patiny & Michez (2006).
Nomiinae	<i>Lipotriches</i>	<i>Afronomia</i>	135	Pauly (1980b, 1990 (<i>Afronomia</i> ,
		<i>Austronomia</i>		

		<i>Lipotriches</i>		<i>Maynenomia</i>), Pauly (1999a (<i>Trinomía</i>)), Pauly (2003 (<i>Nubenomia</i>)). <i>Austronomia</i> , <i>Lipotriches</i> and <i>Macronomia</i> being revised by Pauly.
		<i>Macronomia</i>		
		<i>Maynenomia</i>		
		<i>Nubenomia</i>		
		<i>Trinomía</i>		
Nomiinae	<i>Nomia</i>	<i>Acunomia</i>	66	Pauly (1980b, 1990 (<i>Acunomia</i> , <i>Crocisaspidia</i>)), Pauly (2000 (<i>Leuconomia</i>)), Pauly (2008b (<i>Nomia</i>)).
		<i>Crocisaspidia</i>		
		<i>Leuconomia</i>		
		<i>Nomia</i>		
Nomiinae	<i>Pseudapis</i>	<i>Pachynomia</i>	31	Pauly (1990).
		<i>Pseudapis</i>		
Nomiinae	<i>Spatunomia</i>		2	Pauly (1990).
Nomiinae	<i>Steganomus</i>		4	Pauly 1990).
Nomioidinae	<i>Cellariella</i>		5	Pesenko & Pauly (2005).
Nomioidina	<i>Ceylalicthus</i>	<i>Atronomioides</i>	8	Pesenko & Pauly (2005).
		<i>Ceylalicthus</i>		
		<i>Meganomioides</i>		
Nomioidina	<i>Nomioides</i>		8	Pesenko & Pauly (2005).
Halictinae	<i>Eupetersia</i>	<i>Eupetersia</i>	21	Blüthgen (1928, 1936); Pauly (1981b (<i>Calleupetersia</i>)).
		<i>Nesoeupetersia</i>		
Halictinae	<i>Glossodialictus</i>		1	Pauly (1984c).
Halictinae	<i>Seladonia</i>	<i>Seladonia</i>	19	Pauly (1997) (<i>Paraseladonia</i>); Pauly (2008a (catalogue)).
		<i>Paraseladonia</i>		
Halictinae	<i>Lasioglossum</i>	<i>Ctenonomia</i>	236	Pauly (1999a (catalogue)), Pauly (1980a, 1984a (<i>Ctenonomia</i> , part)), Pauly (1981a (<i>Labrohalictus</i>)), Pauly (1984b), Arduser & Michener (1987 (<i>Paradialictus</i>)), Pauly (2001 (<i>Ipomalictus</i> , part)), Pauly <i>et al.</i>
		<i>Ipomalictus</i>		
		<i>Oxyhalictus</i>		
		<i>Afrodialictus</i>		
		<i>Paradialictus</i>		
		<i>Sellalictus</i>		

				(2008 <i>Sellalictus</i> , part)), being revised by Pauly).
Halictinae	<i>Patellapis</i>	<i>Chaetalictus</i>	150	Pauly (1989, 2007 (<i>Dictyohalictus</i>)), Timmermann & Kuhlmann (2008, 2009 (<i>Patellapis</i> , <i>Chaetalictus</i> , <i>Lomatalictus</i>)). <i>Zonalictus</i> needs revision.
		<i>Dictyohalictus</i>		
		<i>Lomatalictus</i>		
		<i>Patellapis</i>		
		<i>Zonalictus</i>		
Halictinae	<i>Sphecodes</i>		45	Needs revision.
Halictinae	<i>Thrinchostoma</i>	<i>Diagonozus</i>	25	Blüthgen (1930, 1933). Being revised by Eardley <i>et al.</i>
		<i>Eothrinchostoma</i>		
		<i>Thrinchostoma</i>		
Melittidae				
Dasypodainae	<i>Afrodasypoda</i>		1	Engel (2005).
Dasypodainae	<i>Capicola</i>	<i>Capicola</i>	13	Michez <i>et al.</i> (2007); Michez & Kuhlmann (2007).
		<i>Capicoloides</i>		
Dasypodainae	<i>Samba</i>		1	Michez <i>et al.</i> (submitted).
Dasypodainae	<i>Haplomelitta</i>	<i>Atrosamba</i>	6	Michez <i>et al.</i> (submitted).
		<i>Haplomelitta</i>		
		<i>Metasamba</i>		
		<i>Prosamba</i>		
Meganomiinae	<i>Ceratonomia</i>		1	Michener (1981).
Meganomiinae	<i>Meganomia</i>		4	Michener (1981).
Meganomiinae	<i>Pseudophilanthus</i>	<i>Pseudophilanthus</i>	3	Michener (1981).
Meganomiinae	<i>Uromonia</i>		1	Michener (1981).
Melittinae	<i>Melitta</i>		8	Eardley & Kuhlmann (2006); Michez & Eardley (2007).
Melittinae	<i>Rediviva</i>		26	Whitehead & Steiner (2001), Whitehead <i>et al.</i> (2008).
Melittinae	<i>Redivivoides</i>		1	Being revised by Eardley.
Megachilidae				

Fideliinae	<i>Fidelia</i>	<i>Fidelia</i>	11	Whitehead & Eardley (2003).
		<i>Fideliana</i>		
		<i>Fideliopsis</i>		
		<i>Parafidelia</i>		
Megachilinae	<i>Lithurgus</i>		4	Eardley (1988).
Megachilinae	<i>Afroheriades</i>		6	Needs revision.
Megachilinae	<i>Haetosmia</i>		1	Peters (1974).
Megachilinae	<i>Heriades</i>	<i>Amboheriades</i>	93	Needs revision.
		<i>Heriades</i>		
		<i>Michenerella</i>		
		<i>Pachyheriades</i>		
		<i>Toxeriades</i>		
		<i>Tyttheriades</i>		
Megachilinae	<i>Hoplitis</i>	<i>Annosmia</i>	4	Warncke (1991a, b (<i>Annosmia</i> , <i>Pentadentosmia</i>)). Needs revision.
		<i>Anthocopa</i>		
		<i>Bytinskia</i>		
		<i>Pentadentosmia</i>		
Megachilinae	<i>Noteriades</i>		11	Needs revision.
Megachilinae	<i>Ochrieriades</i>		1	Griswold (1994a).
Megachilinae	<i>Othinosmia</i>	<i>Afrosmia</i>	12	Griswold (1994b). (<i>Afrosmia</i>). Needs revision.
		<i>Megaloheriades</i>		
		<i>Othinosmia</i>		
Megachilinae	<i>Pseudoheriades</i>		3	Needs revision.
Megachilinae	<i>Stenoheriades</i>		5	Griswold (1994b (part)). Needs revision.
Megachilinae	<i>Wainia</i>	<i>Caposmia</i>	4	Peters (1984) (<i>Caposmia</i>). Needs revision.
		<i>Wainia</i>		
		<i>Wainiella</i>		
Megachilinae	<i>Afranthidium</i>	<i>Afranthidium</i>	44	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Branthidium</i>		
		<i>Capanthidium</i>		
		<i>Domanthidium</i>		
		<i>Immanthidium</i>		

		<i>Mesanthidiellum</i>		
		<i>Nigranthidium</i>		
		<i>Oranthidium</i>		
		<i>Xenanthidium</i>		
		<i>Zosteranthidium</i>		
Megachilinae	<i>Afrostelis</i>		5	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Anthidiellum</i>	<i>Anthidiellum</i>	15	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Chloranthidiellum</i>		
		<i>Pycnanthidium</i>		
Megachilinae	<i>Anthidioma</i>		2	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Anthidium</i>	<i>Anthidium</i>	22	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Nivanthidium</i>		
		<i>Severanthidium</i>		
Megachilinae	<i>Aspidosmia</i>		2	Peters (1972).
Megachilinae	<i>Cyphanthidium</i>		2	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Eoanthidium</i>	<i>Clistanthidium</i>	4	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Eoanthidium</i>		
Megachilinae	<i>Euaspis</i>		2	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Gnathanthidium</i>		1	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Icteranthidium</i>		1	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Larinostelis</i>		1	Pasteels (1984). Being revised by Eardley and Griswold.
Megachilinae	<i>Pachyanthidium</i>	<i>Ausanthidium</i>	16	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Pachyanthidium</i>		
		<i>Trichanthidioides</i>		

		<i>Trichanthidium</i>		
Megachilinae	<i>Plesianthidium</i>	<i>Carinanthidium</i>	7	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Plesianthidium</i>		
		<i>Spinanthidiellum</i>		
		<i>Spinanthidium</i>		
Megachilinae	<i>Pseudoanthidium</i>	<i>Exanthidium</i>	8	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Micranthidium</i>		
		<i>Semicarinella</i>		
		<i>Tuberanthidium</i>		
Megachilinae	<i>Serapista</i>		4	Pasteels 1984. Being revised by Eardley and Griswold.
Megachilinae	<i>Stelis</i>	<i>Stelidimorpha</i>	1	Griswold and Parker (2003). Being revised by Eardley and Griswold.
Megachilinae	<i>Trachusa</i>	<i>Congotrachusa</i>	5	Pasteels (1984). Being revised by Eardley and Griswold.
		<i>Massanthidium</i>		
		<i>Paraanthidium</i>		
Megachilinae	<i>Xenostelis</i>		1	Baker (1999).
Megachilinae	<i>Aglaopis</i>		1	Michener (1996).
Megachilinae	<i>Coelioxys</i>	<i>Allocoelioxys</i>	98	Pasteels (1968). Being revised by Schwarz.
		<i>Coelioxys</i>		
		<i>Liothyrapis</i>		
		<i>Torridapis</i>		
Megachilinae	<i>Megachile</i>	<i>Amegachile</i>	405	Pasteels (1965). Being revised by Eardley (part).
		<i>Callomegachile</i>		
		<i>Chalicodoma</i>		
		<i>Creightonella</i>		
		<i>Cuspidella</i>		
		<i>Eutricharaea</i>		
		<i>Gronoceras</i>		
		<i>Heriadopsis</i>		
		<i>Largella</i>		
		<i>Maximegachile</i>		

		<i>Megella</i>		
		<i>Paracella</i>		
		<i>Platysta</i>		
		<i>Pseudomegachile</i>		
		<i>Stenomegachile</i>		
Apidae				
Xylocopinae	<i>Xylocopa</i>	<i>Ctenoxylocopa</i>	121	Eardley (1983, (southern Africa)).
		<i>Gnathoxylocopa</i>		
		<i>Koptortosoma</i>		
		<i>Mesotrichia</i>		
		<i>Xenoxylocopa</i>		
		<i>Xylomelissa</i>		
Xylocopinae	<i>Ceratina</i>	<i>Ceratina</i>	86	Daly (1988 (part)), Eardley & Daly (2007 (southern Africa)).
		<i>Ctenoceratina</i>		
		<i>Megaceratina</i>		
		<i>Pithitis</i>		
		<i>Protopithitis</i>		
		<i>Simioceratina</i>		
Xylocopinae	<i>Allodape</i>		35	Michener (1975).
Xylocopinae	<i>Allodapula</i>	<i>Allodapula</i>	16	Michener (1975).
		<i>Allodapulodes</i>		
		<i>Dalloapula</i>		
Xylocopinae	<i>Braunsapis</i>		40	Michener (1975).
Xylocopinae	<i>Compsomelissa</i>	<i>Compsomelissa</i>	9	Michener (1975).
		<i>Halterapis</i>		
Xylocopinae	<i>Eucondylops</i>		2	Michener (1975).
Xylocopinae	<i>Macrogalea</i>		4	Michener (1975).
Xylocopinae	<i>Nasutapis</i>		1	Michener (1975).
Nomadinae	<i>Nomada</i>		10	Eardley & Schwarz (1991).
Nomadinae	<i>Epeolus</i>		13	Eardley (1991b).
Nomadinae	<i>Ammobatoides</i>		1	Bischoff (1923).
Nomadinae	<i>Ammobates</i>	<i>Ammobates</i>	1	Eardley & Brothers (1997).

Nomadinae	<i>Chiasmognathus</i>		1	Engel (2006, 2010).
Nomadinae	<i>Pasites</i>		20	Eardley & Brothers (1997).
Nomadinae	<i>Sphecodopsis</i>	<i>Pseudodichroa</i>	14	Eardley & Brothers (1997), Eardley (2007b).
		<i>Sphecodopsis</i>		
Nomadinae	<i>Schwarzia</i>		1	Eardley (2009b)
Apinae	<i>Ancyla</i>		1	Warncke (1979).
Apinae	<i>Ctenoplectra</i>		7	Eardley (2003).
Apinae	<i>Ctenoplectrina</i>		3	Eardley (2003).
Apinae	<i>Tetralonia</i>	<i>Eucara</i>	14	Eardley (1989).
		<i>Thygatina</i>		
Apinae	<i>Tetraloniella</i>	<i>Tetraloniella</i>	33	Eardley (1989).
Apinae	<i>Amegilla</i>		71	Eardley (1994).
Apinae	<i>Anthophora</i>	<i>Heliophila</i>	55	Eardley & Brooks (1989).
		<i>Paramegilla</i>		
		<i>Pyganthophora</i>		
Apinae	<i>Pachymelus</i>	<i>Pachymelopsis</i>	7	Eardley (1993).
		<i>Pachymelus</i>		
Apinae	<i>Afromelecta</i>	<i>Acanthomelecta</i>	3	Eardley (1991a).
		<i>Afromelecta</i>		
Apinae	<i>Thyreus</i>		39	Eardley (1991a).
Apinae	<i>Cleptotrigona</i>		1	Eardley (2005).
Apinae	<i>Dactylurina</i>		2	Eardley (2005).
Apinae	<i>Plebeina</i>		1	Eardley (2005).
Apinae	<i>Meliponula</i>	<i>Axestotrigona</i>	12	Eardley (2005).
		<i>Meliponula</i>		
Apinae	<i>Hypotrigona</i>		4	Eardley (2005).
Apinae	<i>Liotrigona</i>		2	Eardley (2005).
Apinae	<i>Apis</i>		1	Michener (2007).
Total	103	216	2483	

Appendix 2 – Taxonomic index to the families, genera and subgenera

A

<i>Acanthomelecta</i>	104
<i>Acunomia</i>	33
<i>Afranthidium</i>	69, 70
<i>Afranthidium</i> , key	69
<i>Afrodasyypoda</i>	53
<i>Afrodialictus</i>	37
<i>Afroheriades</i>	64
<i>Afromelecta</i>	103, 104
<i>Afromelecta</i> , key	104
<i>Afronomia</i>	31
<i>Afrosmia</i>	68
<i>Afrostelis</i>	71
<i>Aglaoapis</i>	77
<i>Alfkenylaeus</i>	23
<i>Allocoelioxys</i>	78
<i>Allodape</i>	97
<i>Allodapula</i>	97
<i>Allodapula</i> , key	97
<i>Allodapulodes</i>	98
<i>Amboheriades</i>	66
<i>Amegachile</i>	80
<i>Amegilla</i>	102
<i>Ammobates</i>	99
<i>Ammobatoides</i>	99
<i>Ancyla</i>	101
<i>Andrena</i>	26
Andrenidae	26
Andrenidae, key	26
<i>Annosmia</i>	67
<i>Anthidiellum</i>	71
<i>Anthidiellum</i> , key	71
<i>Anthidioma</i>	72
<i>Anthidium</i>	72
<i>Anthidium</i> , key	72
<i>Anthocopa</i>	67
<i>Anthophora</i>	102
Apidae	90
Apidae, key	91
<i>Apis</i>	106
<i>Aspidosmia</i>	72
<i>Atronomioides</i>	35
<i>Atrosamba</i>	54
<i>Ausanthidium</i>	74
<i>Austronomia</i>	31

<i>Axestotrigona</i>	105
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B

<i>Borgatomelissa</i>	27
<i>Branthidium</i>	70
<i>Braunsapis</i>	98
<i>Bytinskia</i>	67

C

<i>Calleupetersia</i>	36
<i>Callomegachile</i>	80
<i>Calloprosopis</i>	22
<i>Capanthidium</i>	70
<i>Capicola</i>	53
<i>Capicola</i> , key	53
<i>Capicoloides</i>	53
<i>Caposmia</i>	68
<i>Carinanthidium</i>	75
<i>Cellariella</i>	34
<i>Ceratina</i>	96
<i>Ceratina</i> , key	95
<i>Ceratonomia</i>	55
<i>Ceylalictus</i>	34, 35
<i>Ceylalictus</i> , key	34
<i>Chaetalictus</i>	39
<i>Chalicodoma</i>	79, 81
<i>Chiasmognathus</i>	100
<i>Chloranthidiellum</i>	71
<i>Clistanthidium</i>	73
<i>Coelioxys</i>	77, 78
<i>Coelioxys</i> , key	77
<i>Colletes</i>	22
Colletidae	21
Colletidae, key	22
<i>Compsomelissa</i>	98
<i>Compsomelissa</i> , key	98
<i>Congotrachusa</i>	76
<i>Copoceratina</i>	96
<i>Cornylaeus</i>	23
<i>Creightonella</i>	81
<i>Crocisaspidia</i>	33
<i>Ctenoceratina</i>	96
<i>Ctenonomia</i>	37
<i>Ctenoplectra</i>	101
<i>Ctenoplectrina</i>	101

<i>Ctenoxylocopa</i>	94
<i>Cuspidella</i>	81
<i>Cyphanthidium</i>	72

D

<i>Dactylurina</i>	104
<i>Dalloapula</i>	98
<i>Deranchylaeus</i>	24
<i>Diagonozus</i>	40
<i>Dictyohalictus</i>	39
<i>Domanthidium</i>	70

E

<i>Eoanthidium</i>	73
<i>Eoanthidium</i> , key	73
<i>Eothrincostoma</i>	41
<i>Epeolus</i>	99
<i>Euaspis</i>	73
<i>Eucara</i>	102
<i>Eucondylops</i>	98
<i>Eupetersia</i>	36
<i>Eupetersia</i> , key	36
<i>Eutricharaea</i>	81
<i>Evylaeus</i>	37
<i>Exanthidium</i>	75

F

<i>Fidelia</i>	63
<i>Fidelia</i> , key	63
<i>Fideliana</i>	64
<i>Fideliopsis</i>	64

G

<i>Glossodialictus</i>	36
<i>Gnathanthidium</i>	73
<i>Gnathoxylocopa</i>	94
<i>Gronoceras</i>	81

H

<i>Haetosmia</i>	65
Halictidae	29
Halictidae, key	29
<i>Halterapis</i>	98
<i>Haplomelitta</i>	54
<i>Haplomelitta</i> , key	54
<i>Haplosamba</i>	54

<i>Heliophila</i>	103
<i>Heriades</i>	65, 66
<i>Heriades</i> , key	65
<i>Heriadopsis</i>	81
<i>Hirashima</i>	96
<i>Hoplitis</i>	66
<i>Hoplitis</i> , key	66
<i>Hylaeus</i>	22
<i>Hylaeus</i> , key	23
<i>Hypotrigna</i>	104

I

<i>Icteranthidium</i>	73
<i>Immanthidium</i>	70
<i>Ipomalictus</i>	37

K

<i>Koptortosoma</i>	94
---------------------------	----

L

<i>Largella</i>	81
<i>Larinostelis</i>	73
<i>Lasioglossum</i>	36
<i>Lasioglossum</i> , key	36
<i>Leuconomia</i>	33
<i>Liothyrapis</i>	78
<i>Liotrigona</i>	105
<i>Lipotriches</i>	30, 31
<i>Lipotriches</i> , key	31
<i>Lithurgus</i>	64
<i>Lomatalictus</i>	39

M

<i>Macrogalea</i>	98
<i>Macronomia</i>	32
<i>Massanthidium</i>	76
<i>Maximegachile</i>	81
<i>Maynenomia</i>	32
<i>Mediocralictus</i>	37
<i>Megaceratina</i>	96
<i>Megachile</i>	78
<i>Megachile</i> , key	78
Megachilidae	60
Megachilidae, key	60
<i>Megaloheriades</i>	68
<i>Meganomia</i>	55

<i>Meganomioides</i>	35	<i>Paraanthidium</i>	77
<i>Megella</i>	81	<i>Paracella</i>	82
<i>Meliplebeia</i>	105	<i>Paradialictus</i>	38
<i>Meliponula</i>	105	<i>Parafidelia</i>	64
<i>Meliponula</i> , key	105	<i>Paramegilla</i>	103
<i>Melitta</i>	56	<i>Paraseladonia</i>	40
Melittidae.....	52	<i>Pasites</i>	100
Melittidae, key	52	<i>Patellapis</i>	38, 39
<i>Melitturga</i>	27	<i>Patellapis</i> , key	38
<i>Meliturgula</i>	27	<i>Pentadentoscma</i>	67
<i>Mermiglossa</i>	27	<i>Pithitis</i>	96
<i>Mesanthidiellum</i>	70	<i>Platysta</i>	82
<i>Mesotrichia</i>	95	<i>Plebeina</i>	105
<i>Metasamba</i>	54	<i>Plesianthidium</i>	74, 75
<i>Metylaeus</i>	24	<i>Plesianthidium</i> , key.....	74
<i>Michenerella</i>	66	<i>Prosamba</i>	54
<i>Micranthidium</i>	76	<i>Prosopisteron</i>	24
N		<i>Protolithitis</i>	96
<i>Nasutapis</i>	99	<i>Pseudapis</i>	33, 34
<i>Nesoeupetersia</i>	36	<i>Pseudapis</i> , key	33
<i>Nigranthidium</i>	70	<i>Pseudoanthidium</i>	75
<i>Nivanthidium</i>	72	<i>Pseudoanthidium</i> , key	75
<i>Nomada</i>	99	<i>Pseudodichroa</i>	100
<i>Nomia</i>	32, 33	<i>Pseudoheriades</i>	68
<i>Nomia</i> , key	32	<i>Pseudomegachile</i>	82
<i>Nomiapis</i>	34	<i>Pseudophilanthus</i>	55
<i>Nomioides</i>	35	<i>Pycnanthidium</i>	71
<i>Noteriades</i>	67	<i>Pyganthophora</i>	103
<i>Nothylaeus</i>	24	R	
<i>Nubenomia</i>	32	<i>Rediviva</i>	56
O		<i>Redivivoides</i>	56
<i>Ochreriades</i>	67	<i>Rubrihalictus</i>	37
<i>Oranthidium</i>	71	<i>Ruginomia</i>	34
<i>Othinosmia</i>	68	S	
<i>Othinosomia</i>	67	<i>Samba</i>	55
<i>Othinosomia</i> , key	67	<i>Scapter</i>	22, 100
<i>Oxyhalictus</i>	37	<i>Seladonia</i>	39, 40
P		<i>Seladonia</i> , key	39
<i>Pachyanthidium</i>	74	<i>Sellalictus</i>	38
<i>Pachyheriades</i>	66	<i>Semicarinella</i>	76
<i>Pachymelopsis</i>	103	<i>Serapista</i>	76
<i>Pachymelus</i>	103	<i>Severanthidium</i>	72
<i>Pachymelus</i> , key.....	103	<i>Simioceratina</i>	97
<i>Pachynomia</i>	33	<i>Spatunomia</i>	34
		<i>Sphecodes</i>	40