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Parapsammophila turanica F. Morawitz

Photograph taken at Wadi Gharandal, Sinai Peninsula, on 21 May 1993

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BIBLIOGRAPHY OF SPHECIDAE sensu lato
(= Apoidea excluding Apidae)
(= Heterogynaidae, Ampulicidae, Sphecidae, and Crabronidae)

compiled by

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Completing a bibliography is a daunting task, and this one certainly does not include all the papers in which Sphecidae are mentioned. First, I have not seen some old, classical papers such as Burmeister, 1861 and Reich, 1795, among others (I hope to add these publications at some later time). Second, many papers are published in regional periodicals or books that are not widely circulated and can only be obtained with considerable effort (many such papers are of little general interest, being just lists of commonly collected species from within the known range). Third, I was not able to include many papers published in Japanese, even those that appeared in such prestigious journals as *Kontyû* and *Mushi*. Some but not all papers dealing with parasites of Sphecidae are included, somewhat inconsistently, as are papers dealing with sphecid morphology.

In spite of these limitations, the Bibliography contains about 8,927 entries (not including cross-references). Unless indicated otherwise, only the papers seen by the compiler have been included. An asterisk (*) preceding the date indicates that the paper's content has been cataloged (see Genera and Species under Catalog of Sphecidae). When two publication years are given, the first is the actual publication year, the second (in parentheses) is the intended but incorrect year given on the title page. In many cases publication day and/or month are also provided. For example, a notation "1949. (27 Jan.). (1948)." means that the volume for 1948 was mailed on 27 January 1949. If a title is given in two languages, the second title is preceded by a dash (–). Titles in square brackets and preceded by the equals sign [=] were given either by the journal editor or the present compiler, not the original author. Titles and journal names translated into English by the compiler are given in square brackets and are preceded by the equals sign [=]. Titles of periodicals are spelled in full. When two periodicals with identical names are known to exist, each is followed by the name of a city (in parentheses) where it is published. Examples include *Entomologisches Nachrichtenblatt* (Burgdorf) and *Entomologisches Nachrichtenblatt* (Troppau), *Kosmos* (Lwów, Warszawa) and *Kosmos* (Stuttgart), *The Naturalist* (London), *The Naturalist* (Port Elizabeth), and *The Naturalist* (Sheffield), *Opuscula Zoologica* (Budapest) and *Opuscula Zoologica* (München), *Zoologische Mededelingen* (Amsterdam) and *Zoologische Mededelingen* (Leiden). *Entomologische Berichte*, published in Berlin, and *Entomologische Berichten*, published in Amsterdam, are not considered identical. Authorship is assigned to the individual(s) who wrote a given publication. One exception is the *Règles Internationales de Nomenclature Zoologique* and the *International Codes of Zoological Nomenclature* (Editions 1-4) that are placed under the International Commission on Zoological Nomenclature.

In spite of my efforts, errors may exist in dating, spelling, volume numbers, and pagination. I would appreciate these being brought to my attention.

GENERAL TOPICS. – G. Carpenter, 1930a (pompilids use gastral tip to ram the earth during nest closure, whereas sphecid use the front of the head); E. Nielsen, 1936 (classification of nests); Rau, 1938a (prey selection); Iwata, 1942c (comparative studies of behavior); Marquenie, 1954 (function of open nest entrance in ground nesting species); Hertzog, 1956 (classification of prey carrying types); Evans, 1962d (evolution of prey carrying mechanism), 1963c (nesting behavior of selected species, discussion of "tool use" in *Ammophila* on p. 57, discussion of behavioral evolution of wasps), 1964e (classification based on larval characters); Iwata, 1965 (ovaries); Steiner, 1965 (description of artificial nest for rearing specimens in laboratory); Evans, 1966a (behavioral patterns), 1966b (accessory burrows), 1966d (comparative ethology and evolution

of Bembicinae); Iwata, 1976 (evolution of behavior); Steiner, 1986 (stinging patterns, review of prey); Genise, 1980a (evolution of prey carrying mechanisms); S. Frank and Crespi, 1989 (origin of sib-rearing and subsequent evolution of complex social groups); Quicke, Ingram, Baillie, and Gattens, 1992 (sperm structure and ultrastructure); Brothers, 1999, and Melo, 1999 (reclassification of Apoidea: recognized Heterogynaidae, Ampulicidae, Sphecidae, Crabronidae, and Apidae); Melo, 2000 (detailed review of social behavior); Tschuch and Brothers, 2000 (stridulatory organs); Budrys, 2001a (origin of nest building behavior); Herzner et al., 2003 (flagellar sensillae in *Philanthus triangulum*), 2007 (covering prey with postpharyngeal gland secretion); Ohl and Linde, 2003 (number of ovarioles); Gnatzy, Volkmandt, and Schulz, 2004:125 (Dufour gland: structure, development, biochemical aspects); Field, 2005 (evolution of progressive provisioning); Kaltenpoth et al., 2005, 2006 (presence of streptomycetes bacteria in female antennal glands in *Philanthus*); Zama, Brito, Kino-Neto, Campos, Dolder, and B ao, 2005:313 (sperm structure in *Sceliphron fistularium*); Herzner et al., 2006 (variation in sex pheromone in males of *Philanthus triangulum*); As s, Ben itez, Tormos, Gayubo, and Mart n Tom , 2007 (significance of vestibular and intercalary cells in nests of *Trypoxylon attenuatum*); Deyrup and Eisner, 2003 (red and black coloration in Florida Hymenoptera); Gnatzy and Jatho, 2006 (antennal sensillae in *Liris niger*); Morato and Martians, 2006 (proximate factors affecting nesting behavior of wood-nesting species); Evans and O'Neil, 2007 (review of nesting habits of Bembicini); Kroiss et al., 2006 (postpharyngeal gland in males of *Philanthus triangulum*); Ara jo and Gonzaga, 2007 (individual specialization on prey); Ohl and Engel, 2007 (the early Cretaceous *Melittosphex burmensis* probably is a sphecid wasp and not a bee); Ohl and Thiele, 2007 (head width, mesoscutum width, and forewing length are the most reliable measures of body size); Protsenko and Matushkina, 2007 (structure of labiomaxillary complex in various genera); Strohm, Herzner, and Goettler, 2007:113 (postpharyngeal gland in females of *Philanthus triangulum* is homologous to that of ants); Shreeves and Field, 2008 (provisioning taxa have significantly more female-biased size dimorphism than nonprovisioning taxa); V. Lohrmann, Ohl, Bleidorn, and Podsiadlowski, 2008 (classification of Sphecidae s.l. based on molecular data); Zama, Moreira, B ao, Campos, Dolder, and Lino-Neto, 2007:304 (structure of testicular and post-testicular spermatozoa in two species of *Microstigma*); Kross, Bordon, and Strohm, 2008:1555 (cuticular hydrocarbons in *Philanthus triangulum* are likely to attract nest parasite *Hedychrum rutilans*); Antropov, 2009 (analysis of wing venation reduction); Berton, Castanho, and Buschini, 2009:419 (mathematical fuzzy rule-based system approach toward fertility, nest size, and survival of *Trypoxylon lactitarse*); Kaltenpoth, Schmitt, and Strohm, 2009:219 (secretion of female antennal glands has dual role: 1. provides larva with information about orientation of cocoon spinning, 2. supplies larva with symbiotic bacteria that protect cocoon against pathogenic microorganisms; it consists of 28 substances, mostly saturated and unsaturated hydrocarbons); Strohm, Kaltenpoth, and Herzner, 2010 (postpharyngeal gland of *Philanthus triangulum* is homologous to that of ants); Nemkov, 2010b (key to genera of Gorytina), 2011 (characteristics of distribution of sphecid wasps in the Russian Far East); V. Ara jo, Moreira, and Lino-Neto, 2009 (structure and ultrastructure of spermatozoa in *Trypoxylon albitalarse*); Kaltenpoth et al., 2010 (presence of streptomycetes bacteria in female antennal glands in *Trachypus*); Nemkov and Ohl, 2011 (cladistic analysis and reclassification of Bembicini); Antropov, 2011b:236 (list of extant and extinct genera of Pemphredoninae), 237 (key to tribes Pemphredoninae, both extant and fossil), 238 (cladogram of genera of Pemphredoninae); Field, Ohl, and Kennedy, 2011:732 (molecular phylogeny of Ammophilini); N.J. Smith, 2012:228 (revised key to Ammoplanina); Andrietti, 2011 (detailed review of observation by Fabre, Fertou,

G. Williams, E.M. Peckham, and Steiner; perspectives for future biological observations); Melo, Hermes, and Garcete-Barrett, 2011:1 (origin of predation among Hymenoptera); Coelho, 2011:23 (effects of prey size and load carriage on evolution of foraging strategy); Polidori (role of prey spectrum and prey size in evolution of sociality in *Cerceris*); Polidori, Santori, Asís, and Tormos, 2011 (individual prey specialization); Nemkov, 2012b (review of biology of Bembicinae).

REGIONAL KEYS. – A list of regional keys to genera or species was given by Bohart and Menke (1976:29). Other keys include: Honoré, 1942 (key to genera of Europe and Mediterranean Basin); Kazenas, 1978b (Kazakhstan and Central Asia); Pulawski, 1978 (European part of former USSR); Richards, 1980 (British Isles); Finnamore, 1982 (southern Quebec); Pagliano, 1984, 1985, 1986, 1987, 1988, 1989, 1991b, 1992a (Italy); P. Willmer, 1985c (genera of British Isles); Guichard, 1986 (genera of Saudi Arabia); Dollfuss, 1991 (Austria); Bitsch and collaborators, 1993, 1997, 2001 (Europe); Nemkov, Kazenas, Budrys, Antropov, 1995 (Eastern Siberia and Russian Far East); Hanson and Menke, 1995:641 (Costa Rican genera of Crabronini), 645 (Costa Rican genera of Gorytini); Menke and Fernández, 1996 (genera of Neotropical Region); Kazenas, 1998b (genera of Kazakhstan); Sk. Yamane, Ikudome, and Terayama, 1999 (Nansei = Ryukyu Islands, Japan); Porter, Stange, and Wang, 1999 (genera of Taiwan); Roche and Gadalalah, 1999 (genera of Egypt); Kazenas, 2000e (Astatinae and Pemphredoninae of Kazakhstan); Pulawski, 2003 (genera of Madagascar); Gadallah and Assery, 2004a (Jeddah Region, Saudi Arabia); Terayama, 2004b (genera of Japan, in Japanese); Ebrahimi, 2005 (selected Iranian species); Pagliano and Negrisol, 2005 (Italy); Terayama and Tano, 2005 (*Cerceris* of Japan, in Japanese), 2006 (Ampulicidae and Sphecidae of Japan, in Japanese); Amarante, 2006a (tribes of Neotropical Sphecidae), 2006b (key to tribes of Neotropical Crabronidae); Terayama, 2006 (Nysoninae of Japan, in Japanese); Terayama and Tano, 2006 (Ampulicidae and Sphecidae of Japan, in Japanese); Jacobs, 2007 (Germany); Terayama, 2008 (Larrinae of Japan, in Japanese); Nemkov, 2009b (key to genera of Asiatic Russia); Terayama and Nambu, 2009 (Trypoxylini of Japan, in Japanese); Terayama, 2012 (Pemphredonini of Japan, in Japanese); Nemkov and Lelej, 2013 (genera of Bembicinae); Kim, Yeo, and Kim, 2014 (Sphecidae sensu stricto of South Korea).

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LATEST ADDITIONS. – To help users monitor the growth of this Bibliography, the latest additions are listed below:

1 January through 31 December 2014: Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013; Moore, 2001; Suda, 2013; Yamamoto, 2013; Buys, 2013, 2014; Buys and Rodrigues, 2014; Baldock, 2014; Smit and Wijngaard, 2010; Akulov and Proshchalykin, 2013; Srba and Heneberg, 2012; Yıldırım, Ljubomirov, and Lelej, 2014; Sedova, 1959; Wiśniowski, Huflejt, Babik, Czechowski, and Pawlikowski, 2013; Nazarova and Shomirsaidov, 1997; F. Smith, 1851c; Islamov, 1989b; Esenbekova, 1999; Celary, 1998a; Dobosz, 2010; Bury, Sudoł, Zięba, and Żyła, 2009; Kowalczyk, Kurzac, and Soszyński, 2009; Kowalczyk, Kurzac, and Nadolski, 2009; Zettel, Ockermüller, and Wiesbauer, 2014; Sychevskaya, 1973; Myartseva, 1964b; Islamov and Kazenas, 1979; Shkuratov, 2004b; Kowalczyk and Kurzac, 2005; F Gess and S. Gess, 2014; Burunbetova, 1999; Budrys, 2010; Olszewski, Wiśniowski, Kostro-Ambroziak, Pawlikowski, and Piekarska-Boniecka, 2013; Olszewski, Wiśniowski, Pawlikowski, and Straka, 2013; Shlyakhtenok, 2006; Olszewski, Wiśniowski, Pawlikowski, and Szpila, 2013; Shlyakhtenok, 2011; Reich, 1793; Danilov and Odintseva, 2013; Jennings, Krogmann, and Burwell, 2013; Mokrousov, 2011; Dvořák, Straka, Smetana, Halada, Vepřek, and Karas, 2007; Martynova and Fateryga, 2014; Dvořák, Bogusch, and Smetana, 2006, 2009; Shibayev and Polumordvinov, 2012; Wiśniowski and Szczepko, 2013; Schneider and Wahis, 1998; F. Smith, 1855; Çubuk and Gülmez, 2013; Shuckard, 1836; Smetana, Roller, Beneš, Bogusch, Dvořák, Holý, Karas, Macek, Straka, Šima, Tyrner, Vepřek, and Zeman, 2010; F. Smith, 1868a, 1864, 1869d; Siła-Nowicki, 1865; Barnett and Emms, 1998; Gistel, 1837; Braun-Reichert, 2013; Straka, Dvořák, and Bogusch, 2009; Gros, 2014; Amolin, 2012; M. Cooper, 1996; Humala, 2006; Loyola and Martins, 2006; Humala and Polevoi, 2009; Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011; Olszewski and Pawlikowski, 2013; Olszewski, Pawlikowski, and Piekarska-Boniecka, 2013; Ohl, Lohrmann, Breitreutz, Kirschev, and Krause, 2014; Ruchin and Antropov, 2014; Lee and Shin, 2000; Mokrousov, Antropov, Ruchin, and Bugayev, 2009; Mokrousov, Ruchin, and Egorov, 2013; Ruchin, Antropov, and Shibayev, 2009; Yıldırım, 2012, 2014; Barovskij, 1929; Fateryga, Protsenko, and Zhidkov, 2014; Sato, 1927; Minoranskiy, Kharchenko, and Fomichev, 1970; Kejval, 2009; Malyshev, 1941, 1949; Tolstova, 1962; Rasplus, Villemant, Paiva, Delvare, and Roques, 2010; Shlyakhtenok, 2013; Turčīnavičienė, Radzevičiūtė, Budrienė, and Budrys, 2014; Fateryga and Kovblyuk, 2014; Hellqvist, Abenius, and Norén, 2014; Jacobs and Schmid-Egger, 2014; Reder and Niehuis, 2014; Nagase and Kishi, 2014; Ohkusa 2014a, b; Haneda, Murota, Kurokawa, and Tano, 2014; Ivanov, Fateryga, and Filatov, 2009; Schmid-Egger, 2014; Ljubomirov and Schmid-Egger, 2014; Hellman and Fierke, 2014; Antropov, Belokobylskij, Compton, Dlussky, Khalaim, Kolyada, Kozlov, Perfilieva, and Rasnitsyn, 2014; Nemkov, 2014a; Abenius, 2008; Clerc and Clerc, 1907; Nemkov, 2014b; Brockmann, 1988; Hallin, 2005; Protsenko and Gorobchishin, 2013; S. Gess and F. Gess, 2003, 2006; Kazenas, 2010b, 2013c; Rutledge, Fierke, Careless, and Worthley, 2013; Anlaş, Tezcan, and Yıldırım, 2008; Williams, 1932d; Swezey, 1931; Sung, Lin, Chang, Cheng, and Chen, 2006; Venne, 2009; Stevens and Menke, 2014; Tü-

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The authorship of *Podium nigripes*, now *Dynatus nigripes*, is somewhat questionable. The second title indicates that G. Gray was the author of new genera and species. However, the Supplement on the Hymenoptera (pp. 389-576) was written by Griffith and Pidgeon as evidenced by the use of "we" throughout the text, and a note on p. 780 states that Gray selected new species from Children's and Hope's collections and described them, not that he is responsible for all new species. In addition to species described by Gray, a number of new genera and species are credited to Westwood and some to Leach. Although there is no evidence that Westwood prepared the original description or illustration, the best solution is to follow the tradition and attribute the authorship to him].

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ZUIJLEN, J.W.A. VAN, see **VAN ZUIJLEN, J.W.A.**

ZWALUWENBURG, R.H. VAN, see: **VAN ZWALUWENBURG, R.H.**