

Last updated: 22 April 2025

## **PSENEO**

*Pseneo* Malloch, 1933:7. Type species: *Psen kohlii* W. Fox, 1898, by original designation.

*Punctipsen* van Lith, 1968:125. Type species: *Mimesa exarata* Eversmann, 1849, by original designation. **New synonym.**

Budrys, 1988:109 (revised diagnosis of genus).

Revisions: van Lith, 1975a (New World).

Keys: Krombein, 1950e (North America)

### **1. *alayoni* Genaro**

*Pseneo alayoni* Genaro, 2017:13, ♀. Holotype: Dominican Republic: Parque Nacional A. Bermúdez: Anton Sape Bueno (FSCA).

### **2. *argentina* (Brèthes)**

*Mimesa argentina* Brèthes, 1910a:283, ♀, ♂. Syntypes: Argentina: islands on Paraná: no specific locality (MACN). – Schrottky, 1913a:233 (Argentina: Buenos Aires). – **As *Psen argentinus***: van Lith, 1975a:19 (in key to subgenus *Pseneo*), 34 (new combination, in revision of Neotropical *Psen* and *Pseneo*). – **As *Pseneo argentina***: R. Bohart in Bohart and Menke, 1976:164 (as new combination, in checklist of world Sphecidae); Amarante, 2002:55 (in catalog of Neotropical Crabronidae).

### **3. *auratus* (van Lith)**

*Psen auratus* van Lith, 1959:52, ♀. Holotype: ♀, Indonesia: West Java: Mount Gedeh: Tapos (RMNH). – van Lith, 1962:113 (in checklist of Indoaustralian Pseninae), 1965:68 (listed, bibliographic reference, as *auratus auratus*), 1968:133 (listed, in subgenus *Mimumesa*, as *auratus auratus*). – **As *Pseneo auratus***: R. Bohart in Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

### **spp. *miltoni* (van Lith)**

*Psen auratus miltoni* van Lith, 1965:69, ♀, ♂. Holotype: ♀, Malaysia: Selangor: Ulu Langat: Sungli Chongkok (originally H.T. Pagden coll., now BMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Mimumesa*). – **As *Pseneo auratus miltoni***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

### **spp. *mindoroensis* (van Lith)**

*Psen auratus mindoroensis* van Lith, 1959:55, ♀. Holotype: ♀, Philippines: Mindoro: Mount Ilong: Halcon (AEI). – van Lith, 1962:113 (in checklist of Indoaustralian Pseninae), 1965:8 (listed, bibliographic reference); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, in subgenus *Mimumesa*). – **As *Pseneo auratus mindoroensis***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

### **4. *aureolus* (van Lith)**

*Psen aureolus* van Lith, 1975a:30, ♀ (in subgenus *Pseneo*). Holotype: ♀, Brazil: Santa Catarina: Nova Teutonia (OSU). Paratypes: Argentina, Uruguay, Paraguay, Peru, Venezuela, Guyana. – van Lith, 1975a:18 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo aureolus***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae); Starr and Hook, 2003:21 (in catalog of Aculeata of Trinidad, West Indies); Rasmussen and Asenjo, 2009:14 (in checklist of Crabronidae of Peru).

### 5. *aurifrons* (Taschenberg)

*Mimesa aurifrons* Taschenberg, 1875:387, ♀, ♂ (♀ = *Pseneo taschenbergi*). Lectotype: ♂, Brazil: no specific locality (Halle), designated by van Lith, 1975a:27. – Dalla Torre, 1897:351 (in catalog of world Hymenoptera). – **As *Pseneo aurifrons***: W. Fox, 1897b:378 (new combination, Brazil: Chapada); van Lith, 1975a:18 (in key to subgenus *Pseneo*), 27 (in revision of Neotropical *Pseneo* and *Pseneo*, redescription of lectotype ♂, description of ♀, locality records), 1975b:172 (in amended key to New World *Pseneo*). – **As *Pseneo aurifrons***: R. Bohart in Bohart and Menke, 1976:164 (new combination, in checklist of world Sphecidae); Amarante, 2002:55 (in catalog of Neotropical Crabronidae).

### 6. *auriger* (van Lith)

*Pseneo auriger* van Lith, 1975a:25, ♀, ♂ (in subgenus *Pseneo*). Holotype: ♀, Peru: Cuzco: Río Tambo (originally M. Fritz coll., now MACN). – van Lith, 1975b:172 (in key to subgenus *Pseneo*), 1975b:172 (in amended key to New World *Pseneo*); not listed by Bohart and Menke, 1976; Fritz, 1993:16 (holotype in M. Fritz coll.). – **As *Pseneo auriger***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:14 (in checklist of Crabronidae of Peru).

### 7. *auriventris* (van Lith)

*Pseneo auriventris* van Lith, 1975a:37, ♀ (in subgenus *Pseneo*). Holotype: ♀, Peru: Chanchamayo (USNM). – van Lith, 1975a:20 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo auriventris***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:14 (in checklist of Crabronidae of Peru).

### 8. *canalicus* (van Lith)

*Pseneo canalicus* van Lith, 1975a:25, ♀, ♂ (in subgenus *Pseneo*). Holotype: ♀, Peru: Cuzco: Río Tambo (originally M. Fritz coll., now AMNH?). – van Lith, 1975a:18 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo canalicus***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:14 (in checklist of Crabronidae of Peru, misspelled *calicus*).

### 9. *claviventris* (Cameron)

*Mimesa claviventris* Cameron, 1891a:139, ♀. Holotype: ♀, Mexico: Guerrero: Xucumanatlán (BMNH). – Dalla Torre, 1897:352 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini). – **As *Pseneo claviventris***: van Lith, 1975a:18 (in key to subgenus *Pseneo*), 29 (new combination, in revision of Neotropical *Pseneo* and *Pseneo*). – **As *Pseneo claviventris***: R. Bohart and Menke, 1976:165 (new combination by R. Bohart, in checklist of world Sphecidae); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae).

### 10. *collantes* Genaro and Alayo

*Pseneo collantes* Genaro and Alayo, 2001:3, ♀. Holotype: ♀, Cuba: El Chorrillo, Topes de Collantes: Sancti Spiritus (Mus. Nac. Hist. Nat. Cuba). – Amarante, 2005a:5 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae); Genaro, 2006:57 (in checklist of Cuban Sphecidae and Crabronidae).

### 11. *cooperi* (van Lith)

*Pseneo cooperi* van Lith, 1975b:170, ♀ (in subgenus *Pseneo*). Holotype: ♀, Colombia: Valle: Cali (BMNH). – van Lith, 1975b:172 (in amended key to New World *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo cooperi***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

## 12. *eliasi* (van Lith)

*Psen eliasi* van Lith, 1975a:38, ♀, ♂ (in subgenus *Pseneo*). Holotype: ♀, Brazil: Minas Gerais: Passos (Universidade de Paraná, Curitiba). – van Lith, 1975a:18 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976; Amarante, 1993:19 (ne. Brazil, as *etiasi*). – **As *Pseneo eliasi***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

## 13. *exaratus* (Eversmann)

*Mimesa exarata* Eversmann, 1849:361, sex not stated. Holotype or syntypes: sex unknown, Russia: Kazan' area (ZIN). – Ed. André, 1888:175 (in revision of Sphecidae of Europe and Algeria), 11\* (bibliographic references); Dalla Torre, 1897:353 (in catalog of world Hymenoptera). – **As *Psen exaratus***: de Beaumont, 1937:44 (new combination, in revision of Palearctic *Psenini*); Gussakovskij, 1937:654 (in revision of Palearctic species); Yasumatsu, 1942b:94 (Japan: Honshu; north Korea); Guiglia, 1944b:30 (Italy: Lombardia); Zavadil in Zavadil and Šnoflak, 1948:141 (in key to Sphecidae of Czechoslovakia); nec Blüthgen, 1949:89 (= *Mimumesa beaumonti*); de Beaumont, 1954e:92 (Italy); Grandi, 1954:241 (Italy); Steiner, 1955:143 (France: Dordogne); Bajári, 1957a:71 (in key to Hungarian Sphecidae), 1957b:137 (first record from Hungary); Tsuneki, 1959g:49, 52 (in key to *Psenini* of Japan), 69 (Japan; Korea; redescription); Noskiewicz and Puławski, 1960:49 (in key to Polish Sphecidae, not yet found in Poland); Tsuneki, 1962a:6 (Japan: Ryukyu Islands: Island of Amami-Oshima); Tsuneki and Shimoyama, 1963:49 (Japan: Towada Prefecture); de Beaumont, 1964c:91 (in Sphecid Fauna of Switzerland); Mingo Pérez, 1965:162 (in revision of Spanish *Psenini*); van Lith, 1965:18 (bibliographic references, comparison of Swiss and Japanese specimens); Tsuneki, 1966c:1 (listed from Japan: Ryukyu Islands); Mingo Pérez, 1967:86 (in checklist of Iberian *Psenini*); Nambu, 1968b:24 (Japan: Saitama Prefecture); Okuno, 1968:32 (Japan); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*, as *exaratus exaratus*); Itami, 1969:49 (Japan: Niigata Prefecture); Haneda, 1970:12 (Japan: Akita Prefecture); Oehlke, 1970:727 (not found in Democratic Germany); Yamada, 1971:36 (Japan: Aichi Prefecture); Balthasar, 1972:233 (in Sphecid Fauna of Czechoslovakia: may be expected in the country); Simon Thomas, 1972:184 (France: département de Gironde); Nambu, 1973a:151 (Japan: Saitama Prefecture); Suda, 1973:122 (Japan: Yamanashi Prefecture); Leclercq, 1974b:192 (France: locality records); Tsuneki, 1974a:366 (Korea); Nambu, 1975b:66 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae); Kazenas, 1978b:149 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:233 (in key to Sphecidae of European part of former USSR); Kazenas, 1980e:87 (Russia: Far East); Tsuneki, 1982b:15 (known from Korea); Dollfuss, 1983a:79 (Austria: endangered in Salzburg area), 80 (Austria: endangered in Steiermark), 1983b:5 (in catalog of Sphecidae of Austria); Mingo and Gayubo, 1984:102 (Spain); Paik, 1985:198 (in list of Sphecidae of Korea); Nemkov, 1986:94 (Russia: Siberia: Irkutsk Oblast'); Jacobs and Oehlke, 1990:141 (unknown from Democratic Germany); Pagliano, 1990:112 (in catalog of Italian Sphecidae); Day, 1991:xviii (summary of European Endangered Species Lists); Dollfuss, 1991:45 (in key to Sphecidae of North and Central Europe); Tsuneki, 1991:200 (Korea); Gusenleitner, 1995:160 (Austria: Burgenland, Steiermark); Kazenas and Esenbekova, 1995:79 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:11 (in catalog of Italian fauna); Gusenleitner, 1996b:810 (Austria: Steiermark); Schmid-Egger, Schmidt, and Doczkal, 1996:378 (Germany: Baden-Württemberg: probably endangered); Schmidt and Schmid-Egger, 1997:26 (in checklist of German Sphecidae); Dollfuss, Gusenleitner, and Bregant, 1998:512 (Austria: summary of collecting records from Burgenland); Yamane, Ikudome, and Terayama, 1999:489 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Blösch, 2000:151 (in Sphecid Fauna of Germany); Esenbekova and Kazenas, 2000:16 (southeast Kazakhstan: no specific locality); Kazenas, 2000e:59 (in Sphecid Fauna of Kazakhstan); Dollfuss and Bitsch in Bitsch et al., 2001:39 (in Sphecid Fauna of Western Europe); Kazenas, 2001:20 (in checklist of Sphecidae of Kazakhstan and Central Asia), 119 (review of known biology); Ohl et al., 2001:141 (distribution in Germany by provinces); Gusenleitner, 2002:1124 (Austria: Oberösterreich: Offensee); Kazenas, 2002a:44 (geographic distribution, collecting localities in Kazakhstan); Man-

dery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:69 (in catalog of wasps and bees of Bayern, Germany); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:197 (Germany: Bayern: probably endangered); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:30 (Japan: Gifu Prefecture, as *exaratus exaratus*); Suda, 2004:38 (Japan: Yamanashi Prefecture, as *exratus exratus*); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:44 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:29 (Japan: Hokkaido); Mokrousov and Selivanova, 2005:754 (Russia: Voronezh Oblast'); Negoro, Haneda, and Tano, 2005:44 (Japan: Toyama Prefecture, as *exaratus exaratus*); Pagliano and Negrisola, 2005:436 (in Sphecidae Fauna of Italy); Haneda, Nozaka, Tano, Kurokawa and Murota, 2006a:19 (Japan: Toyama Prefecture, as *exaratus exaratus*); Józán, 2006:284 (Hungary: Kovácsszénája); Nagase, 2006:54 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); Jacobs, 2007:55, 56 (in key to Crabronidae of Germany); Jansen and Kaluza, 2007:25 (Germany: first record from Sachsen); Józán, 2009:165 (Croatia: Grabrk); Pagliano, 2009:187 (Italy: Lazio: Morlupo); Okhusa and Tajima, 2010:11 (Japan: Honshu Island: Shiga Prefecture); Schmid-Egger, 2010a:18 (in red list of Aculeata of Germany: very rare); Bogusch, Straka, Macek, Dvořák, Vepřek, and Říha, 2011:95 (Czech Republic: Zliv); Gogala, 2011:9 (Slovenia); Józán, 2011:179 (in checklist of Sphecidae *sensu lato* of Hungary); Boillat, 2012:228 (Switzerland: in checklist of insects of Canton de Genève); Larivière, Chapelin-Viscardi, and Maillat-Mezeray, 2012:296 (France: Essonne: Boigneville); Strumia, Pagliano, and Gayubo, 2012:57 (Italy: Toscana: Riserva di San Rossore); Bitsch, 2014:409 (France: Isère: Grenoble; Haut-Rhin: Balzenheim; Lot-et-Garonne: Andrian; record from France by Larivière et al. 2012 recorded); Reder and Niehuis, 2014:9 (Germany: Rheinland-Pfalz: Flörsheim-Dalsheim); Bertsch, 2023:38 (Germany: Bayern: 15 km southwest of Neuburg an der Donau) – **As *Pseneo exaratus***: Budrys, 1988:108 (new combination, locality records from USSR); Nemkov, 1992b:244 (Russia: Far East: Khingan Nature Reserve); Budrys *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:391 (in key to Sphecidae of Russian Far East); Nemkov, 2006b:166 (Russia: Primorskiy Krai: Kedrovaya Pad' Nature Reserve); Baghirov, 2007:93 (Russia: southwestern Siberia); Nemkov, 2008b:18 and 2009b:56 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:236 (Russia: Primorskiy Krai: Lazovsky Nature Reserve); J. Kim and Yang, 2010:145 (in checklist of Korean Pemphredoninae); Mokrousov, 2010:63 (Russia: Nizhniy Novgorod Oblast', Tatarstan: no specific localities), 2010b:100 (Russia: Nizhniy Novgorod Oblast': no specific localities); Mokrousov and Zryanin, 2010:9 (needs to be protected in Russia: Novgorod Oblast'); Baghirov, 2011b:153 (Russia: Altayskiy Krai: Savvushka); Burguet *in* Durand and Burguet, 2012:4, fiche 19 (France: Puy-de-Dôme: sands Girauts-Faures in Orléat commune); Nemkov, 2012c:436 (in catalog of Crabronidae of Russian Far East); Shlyakhtenok, 2012a:172 (Russia: Krasnaya Polana near Sochi: collected in private plots); Terayama and Gōukon, 2012:5, 16 (in key to Psenini of Japan, in Japanese), 28 (in list of Japanese Psenini); Shlyakhtenok, 2013:141 (in annotated catalog of aculeate wasps of Belarus'); J.-K. Kim, 2014:446 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov and Vafin, 2014:59 (Russia: Republic of Tatarstan); Lett, 2015:5 (France: Loir-et-Cher: Gièvre); P. Rosa and Pagliano, 2015:105 (Italy: Lombardia and Piemonte: Parco del Ticino); Mokrousov and Popov, 2016:589 (Russia: Krasnodarskiy Krai; prey: adult *Cicadella viridis* (Linnaeus), a cicadellid); Ruchin and Antropov, 2016:401 (Russia: Mordovian State Nature Reserve); Di Giovanni, Mei, and Cerretti, 2017:73 (Italy: Lombardia: Riserva Naturale Bosco della Fontana 5 km from Mantova at 45°12'N 10°44'E, found in canopy and understory); Fresno, 2017:147 (Spain: Asturias: Colunga); Mokrousov, 2017e:251 (in catalog of Pemphredoninae of Russia); Lett, 2018:203 (France: Loir-et-Cher: Gièvres at 47°16'39"N 1°41'52"E); Carminati, Mora, and Cretin, 2019:25 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Ruchin and Antropov, 2019a:13241 (Russia: Mordovian State Nature Reserve), 2019b:162 (in Mordovian State Nature Reserve known from single specimen); Fresno, 2021a:76 (Spain: Asturias: Vega del Rey); Dollfuss, K. Schmidt, and Bitsch *in* Bitsch, Antropov, Bouček, Dollfuss, Fernández Gayubo, and K. Schmidt, 2022:176 (in revision of Sphecidae *sensu lato* of Europe).

*Mimesa superba* Tournier, 1889:102, ♀. Holotype or syntypes: ♀, Switzerland: Peney near Genève (MHNG). Synonymized with *Psen exaratus* by de Beaumont, 1937:44 and Gussakovskij, 1937:654. – Tournier, 1889:68 (in key to

*Mimesa* of Switzerland); Dalla Torre, 1897:354 (in catalog of world Hymenoptera); de Gaulle, 1908:103 (in catalog of French Hymenoptera); Berland, 1925d:134 (in Sphecid Fauna of France).

*Mimesa picicornis* F. Morawitz, 1892:155, ♀. Holotype: ♀, Russia: Irkutsk (ZIL). Synonymized with *Psen exaratus* by de Beaumont, 1937:44 and Gussakovskij, 1937:654. – Dalla Torre, 1897:354 (in catalog of world Hymenoptera).

#### **ssp. indicus (van Lith)**

*Psen exaratus indicus* van Lith, 1968:127, ♂. Holotype: ♂, India: Madras: Anamalai Hills: Kadamparai (RMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae).

#### **ssp. santaro (Yasumatsu)**

*Psen santaro* Yasumatsu, 1942b:94, ♂. Holotype: ♂, Japan: Ryukyu Islands: Amami-Oshima Islands: Gusuku-Nisinakama (Kyushu Univ.). – Tsuneki, 1959g:53 (key), 74 (original description discussed), 1962d:40 (mandibular character); van Lith, 1965:18 (bibliographic references, as *santoro*); Tsuneki, 1966c:1 (Japan: Ryukyu Islands; listed). – **As *Psen exaratus santaro***: Tsuneki, 1966c:1 (new status, Amami-Oshima Islands; redescription); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*); Murota, 1973a:101 (Japan: Amami-Oshima Islands); Tsuneki, 1982g:57 (Japan: know from Ryukyu archipelago); Murota and Kurokawa, 2009:12 (Japan: Ryukyu Archipelago: Amami Oshima Islands).

#### **ssp. taiwanus (Tsuneki)**

*Psen exaratus taiwanus* Tsuneki, 1966c:6, ♀. Holotype: ♀, Taiwan: Nantou Prefecture: Penpuchi (Kyushu Univ.). – Tsuneki, 1967f:2 (Taiwan); van Lith, 1968:126 (description of male), 133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*); Tsuneki, 1968d:55 (Taiwan); Tsuneki, 1977j:277 (Taiwan: Taihorinsho); Porter, Stange, and Wang, 1999:6 (in checklist of Sphecidae of Taiwan). – **As *Pseneo exaratus taiwanus***: Hua, 2006:282 (new combination, in list of Chinese insects, geographic distribution).

#### **ssp. tsunekii Terayama and Tano**

*Psen exaratus intermedius* Tsuneki, 1966c:4, ♂, junior primary homonym of *Psen intermedius* Schenck, 1857 (= *Psenulus concolor*). Holotype: ♂, Japan: Island of Okinawa: Yona (Kyushu Univ.). – Tsuneki, 1968d:55 (Ryukyu Islands); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*); Tsuneki, 1982g:57 (know from Ryukyu archipelago).

*Pseneo exaratus tsunekii* Terayama and Tano, 2016:10. Substitute name or *Psen exaratus intermedius* Tsuneki, 1966.

#### **14. funicularius (van Lith)**

*Psen funicularius* van Lith, 1975a:33, ♂ (in subgenus *Pseneo*). Holotype: ♂, Colombia: Cundinamarca: Monterredondo (originally M. Fritz coll., now?). – van Lith, 1975a:19 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo funicularius***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

#### **15. garcesii Genaro and Alayo**

*Pseneo garcesii* Genaro and Alayo, 2001:2, ♀. Holotype: ♀, Cuba: Pico el Cardero in Sierra Maestra (Mus. Nac. Hist. Nat. Cuba). – Amarante, 2005a:5 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae, as *garcesii*); Genaro, 2006:57 (in checklist of Cuban Sphecidae and Crabronidae).

#### **16. leytensis R. Bohart and Grissell**

*Pseneo leytensis* R. Bohart and Grissell, 1969:220, ♀. Holotype: ♀, Philippines: Leyte: Tacloban (CAS). – R. Bohart and Menke, 1976:165 (in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

### 17. *longiventris* (Cameron)

*Mimesa longiventris* Cameron, 1891a:137, ♀, actually ♂ (van Lith, 1975a:23). Holotype or syntypes: ♂, Mexico: Vera Cruz: Atoyac (BMNH). Synonymized with *Pseneo montezuma* by R. Bohart in Bohart and Menke, 1976:165 (synonymy and valid name selection subsequent to van Lith, 1975a:23). – Dalla Torre, 1897:354 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini). – **As *Pseneo longiventris***: R. Bohart and Menke, 1976:567 (new combination, as junior synonym of *Pseneo montezuma*), 628 (as valid name); Hanson and Menke, 1995:638 (known from Costa Rica); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae); Starr and Hook, 2003:21 (in catalog of Aculeata of Trinidad, West Indies); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:383 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo); Vanoye-Eligio, Meléndez-Ramírez, Ayala, Navarro-Alberto, and Delfín-González, 2015:995 (Mexico: in list of Sphecidae *sensu lato* of Yucatán). – **As *Psen longiventris***: van Lith, 1975a:18 (in key to subgenus *Pseneo*), 23 (new combination, in revision of Neotropical *Psen* and *Pseneo*, Arizona to Colombia, also Surinam and Trinidad), 1975b:173 (Colombia).

*Mimesa montezuma* Cameron, 1891a:138, ♀. Holotype or syntypes: ♀, Mexico: Vera Cruz: Atoyac (BMNH). Synonymized with *Psen longiventris* by van Lith, 1975a:23 (as first reviser). – Dalla Torre, 1897:354 (in catalog of world Hymenoptera); Ashmead, 1899d:225 (in checklist of North American Crabronidae); Viereck, 1901b:342 (in checklist of North American Psenini). – **As *Pseneo montezuma***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae), 628 (as synonym of *Pseneo longiventris*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 46 (Mexico: Tamaulipas).

*Psen spicatus* Malloch, 1933:12, ♂. Holotype: ♂, USA: New Mexico: Beulah (USNM). Synonymized with *Psen montezuma* by van Lith, 1975a:23. – **As *Psen kohlii spicatus***: Krombein, 1950e:282 (new status, diagnostic characters); Krombein in Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera); Krombein, 1967:396 (is a synonym of *Psen longiventris longiventris*). – **As *Pseneo spicatus***: R. Bohart and Menke, 1976:567 (new combination, in checklist of world Sphecidae), 628 (synonymy with *Pseneo longiventris* recorded).

### **ssp. *kohlii* (W. Fox)**

*Psen kohlii* W. Fox, 1898:9, ♀, ♂ (as *Kohlii*, incorrect original capitalization). Lectotype: ♀, USA: Pennsylvania: Philadelphia (ANSP), designated by Cresson, 1928:50. – Ashmead, 1899d:225 (in checklist of North American Crabronidae, as *kohlia*); J. Smith, 1900:516 (in list of insects of New Jersey); Rohwer, 1916b:658, 659 (in catalog of Hymenoptera of Connecticut); Rohwer in Viereck, 1925:658 (in key to Sphecidae of Connecticut); J.Ch. Bradley, 1928:1013 (in catalog of New York Sphecidae); Malloch, 1933:9 (in revision of North American Psenini); Brimley, 1938:445 (North Carolina: Raleigh); Krombein, 1950e:279 (diagnostic characters), 280 (as *kohlii kohlii*, morphological characteristics, distribution records); Krombein in Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera); Krombein, 1954a:6 (West Virginia: Lost River State Park, as *kohlii kohlii*), 1958f:189 (in supplement to catalog of North American Hymenoptera: West Virginia), 1963f:274 (Maryland: Plummers Island near Washington, D.C.); van Lith, 1975a:17 (in key to subgenus *Pseneo*), 222 (bibliographic references, locality records, species status). – **As *Mimesa kohlii***: Viereck, 1901b:342 (new combination, in checklist of North American Psenini). – **As *Pseneo kohlii***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae). – **As *Pseneo longiventris kohlii***: Krombein, 1979b:1598 (new status, in catalog of North American Hymenoptera); Ahlstrom, 1995:107 (in checklist of insects of North Carolina).

*Psen fulvipes* Malloch, 1933:11, ♀. Holotype: ♀, USA: Alabama: Coleta (USNM). Synonymized with *Psen kohlii kohlii* by Krombein, 1950e:280.

*Psen angulatus* Malloch, 1933:12, ♂. Holotype: ♂, USA: Virginia: Nelson County: no specific locality (USNM). Synonymized with *Psen kohlii kohlii* by Krombein, 1950e:280.

**18. *madecassus* (Arnold)**

*Psen madecassus* Arnold, 1945:152, ♀, ♂. Syntypes: Madagascar: Bekily, Ranomafana, Ivondro (MNHN). – Leclercq, 1961a:15 (Madagascar: Bekily, Rogez), 1961d:117 (Madagascar); van Lith, 1974a:56 (additional description), 97 (probably member of subgenus *Punctipsen*), 98 (listed); R. Bohart and Menke, 1976:166 (in checklist of world Sphecidae). – **As *Pseneo madecassus***: Budryś, 1988:109 (new combination); Pulawski, 2003b:798 (in checklist of Malagasy Sphecidae); Madl, 2014a:995 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

**19. *magnificus* (van Lith)**

*Psen magnificus* van Lith, 1975a:34, ♀ (in subgenus *Pseneo*). Holotype: ♀, Brazil: Pará (BMNH). – van Lith, 1975a:19 (in key to subgenus *Pseneo*); not listed by Bohart and Menke, 1976. – **As *Pseneo magnificus***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

**20. *minidentatus* (van Lith)**

*Psen minidentatus* van Lith, 1975b:170, ♀ (in subgenus *Pseneo*). Holotype: ♀, Colombia: Putumayo: Mocoa (BMNH). – van Lith, 1975b:172 (in amended key to New World *Pseneo*). – **As *Pseneo minidentatus***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

**21. *multipunctatus* (van Lith)**

*Psen auratus multipunctatus* van Lith, 1959:55, ♀. Holotype: ♀, Philippines: Negros: Mount Canlaon (AEI). – van Lith, 1962:113 (in checklist of Indoaustralian Pseninae), 1965:68 (bibliographic reference; Philippines: Luzon); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:133 (n list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Mimumesa*). – **As *Psen multipunctatus***: van Lith, 1976b:90 (as full species; Philippines: Luzon and Negros). – **As *Pseneo multipunctatus***: R. Bohart and Menke, 1976:165 (in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

**22. *nigripes* (van Lith)**

*Psen nigripes* van Lith, 1975b:171, ♀ (in subgenus *Pseneo*). Holotype: ♀, Colombia: Cundinamarca: Monterredondo (originally M. Fritz coll., now MACN). – van Lith, 1975b:172 (in amended key to New World *Pseneo*); Fritz, 1993:16 (holotype in M. Fritz coll.). – **As *Pseneo nigripes***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

**23. *punctatus* (W. Fox)**

*Psen punctatus* W. Fox, 1898:9, ♀. Lectotype: ♀, USA: Colorado: no specific locality (ANSP), designated by Cresson, 1928:51. – Ashmead, 1899d:225 (in checklist of North American Crabronidae); Malloch, 1933:10 (in revision of North American Psenini); Krombein, 1950e:282 (recognition characters), 284 (as *punctatus punctatus*, diagnostic characters); Wray, 1950:38 (North Carolina: Asheville); Krombein in Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera); Wray, 1967:124 (North Carolina: Asheville); van Lith, 1975a:17 (in key to subgenus *Pseneo*), 20 (Mexico; comparison with *Psen longiventris*). – **As *Mimesa punctata***: Viereck, 1901b:342 (new combination, in checklist of North American Psenin), 1903a:67 (New Mexico: Beulah); Mickel, 1918b:361 (in catalog of Nebraskan Sphecidae). – **As *Pseneo punctatus***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1598 (in catalog of North American Hymenoptera); Bethke, Campbell, Blua, Redak, and Yanega, 2001:54 (Southern California, nesting habits, prey: species of cicadellid *Homalodisca*); Amarante, 2002:55 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:667 (in checklist of Mexican Sphecidae).

***ssp. carolina* (Rohwer)**

*Psen punctata* var. *carolina* Rohwer, 1910c:103, ♀. Holotype: ♀, USA: North Carolina: Raleigh (USNM). – **As *Psen carolina***: Malloch, 1933:11 (new status, in revision of North American Psenini); Brimley, 1938:445 (North Caroli-

na: Eagle Rock, Elizabeth City, Raleigh, Statesville, Tarboro, Wenona); van Lith, 1975a:17 (in key to subgenus *Pseneo*), 22 (bibliographic references, locality records). – **As *Pseneo punctatus carolina***: Krombein, 1950e:283 (new status, diagnostic characters, locality records); Krombein *in* Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera). – **As *Pseneo punctatus carolina***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1598 (in catalog of North American Hymenoptera); Ahlstrom, 1995:107 (in checklist of insects of North Carolina).

#### **ssp. *ferrugineus* (Viereck)**

*Mimesa ferruginea* Viereck, 1901b:341, ♂. Holotype: ♂, USA: Florida: Biscayne Bay (ANSP). – Viereck, 1901b:342 (in checklist of North American Psenini); Cresson, 1928:50 (holotype in ANSP). – **As *Pseneo ferrugineus***: Malloch, 1933:9 (new combination, in revision of North American Psenini); van Lith, 1975a: 17 (in key to subgenus *Pseneo*), 22 (bibliographic references, diagnostic characters). – **As *Pseneo punctatus ferrugineus***: Krombein, 1950e:284 (new status, diagnostic characters); Krombein *in* Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera). – **As *Pseneo punctatus ferrugineus***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1598 (in catalog of North American Hymenoptera); Deyrup and Eisner, 2003:521 (Florida; another northern subspecies lacking red markings).

#### **24. *simplicicornis* (W. Fox)**

*Psen simplicicornis* W. Fox, 1898:10, ♀, ♂. Lectotype: ♀, USA: North Carolina: no specific locality (ANSP), designated by Cresson, 1928:51. – Ashmead, 1899d:225 (in checklist of North American Crabronidae); Malloch, 1933:10 (in revision of North American Psenini); Brimley, 1938:445 (North Carolina: Raleigh); Krombein, 1950e:284 (redescription, locality records); Krombein *in* Muesebeck et al., 1951:959 (in catalog of North American Hymenoptera); Evans, 1959b:142 (description of larva); Krombein, 1963f:274 (Maryland: Plummers Island near Washington, D.C.); van Lith, 1975a:17 (in key to subgenus *Pseneo*), 20 (bibliographic references, comparison with *Psen punctatus*). – **As *Mimesa simplicicornis***: Viereck, 1901b:342 (new combination, in checklist of North American Psenini). – **As *Pseneo simplicicornis***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Krombein, 1979b:1598 (in catalog of North American Hymenoptera); Finnamore, 1982:56 (in Sphecidae Fauna of Southern Quebec); Radović, 1985:64 (sting apparatus analyzed); Ahlstrom, 1995:107 (in checklist of insects of North Carolina); Buck, 2004:24 (Canada: in checklist of Sphecidae of Ontario), 29 (Canada: distribution within Ontario), 37 (Canada: first record from Ontario: Griffith, Manestar Tract 6 km NNW St. Williams); Giles and Ascher, 2006:231 (New York: Black Rock Forest Preserve).

#### **25. *taschenbergi* (van Lith)**

As *Mimesa aurifrons* Taschenberg, 1875:387, ♀ only, corrected to *Psen taschenbergi* by van Lith, 1975a:35. *Psen taschenbergi* van Lith, 1975a:35, ♀, ♂ (in subgenus *Pseneo*). Holotype: ♀, Brazil: Rio de Janeiro: Nova Friburgo (Halle). Paratypes: Argentina, Bolivia, Brazil, Paraguay. – van Lith, 1975a:20 (in key to subgenus *Pseneo*), 1975b:173 (Argentina, Brazil); not listed by Bohart and Menke, 1976. – **As *Pseneo taschenbergi***: Amarante, 2002:55 (new combination, in catalog of Neotropical Crabronidae).

#### **26. *townesi* (van Lith)**

*Psen townesi* van Lith, 1959:10, ♀. Holotype: ♀, Philippines: Luzon: Mount San Tomas near Baguio (AEI). – van Lith, 1962:113 (in checklist of Indoaustralian Pseninae), 1965:72 (listed, bibliographic reference); Baltazar, 1966:337 (in catalog of Hymenoptera of Philippines); van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Punctipsen*). – **As *Pseneo townesi***: R. Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*).

**27. tridentatus (van Lith)**

*Psen tridentatus* van Lith, 1959:55, ♀. Holotype: ♀, Indonesia: Sumatra: Muara Sako (RMNH). – van Lith, 1962:113 (in checklist of Indoaustralian Pseninae), 1965:67 (Malay Peninsula, additional description, as *tridentatus tridentatus*), 1968:133 (in list of subgenus *Mimumesa*, as *tridentatus tridentatus*), 1976b:88 (first records from Laos and Vietnam; tentatively placed in subgenus *Mimumesa*, as *tridentatus tridentatus*). – **As *Pseneo tridentatus***: R. Bohart *in* Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae); Finnamore, 1987:1092 (likely to belong in *Psen*); Pham, Kumar and Danilov, 2015:1594 (in list of Sphecidae *sensu lato* of Vietnam, as *tridentatus tridentatus*).

**ssp. chrysomallus (van Lith)**

*Psen tridentatus chrysomallus* van Lith, 1965:68, ♂. Holotype: ♂, Burma: Nam Tamai Valley at 27°42'N 97°54'E (BMNH). – van Lith, 1968:133 (in list of East Asian, Indo-Australian, and South Pacific *Psen*, subgenus *Mimumesa*), 1976b:89 (tentatively placed in subgenus *Mimumesa*; description of ♀). – **As *Pseneo tridentatus chrysomallus***: R. Bohart *in* Bohart and Menke, 1976:165 (new combination, in checklist of world Sphecidae, as *chrysomaila*); Finnamore, 1987:1092 (likely to belong in *Psen*).

**sp.**

Evans, 1959b:141 (description of larva).

**SPECIES DESCRIBED IN *PSNEO* AND TRANSFERRED TO *PSEN***

*irwini* Bohart and Grissell, 1969