

## NEUE ARTEN DER BIENENGATTUNGEN

## MELIPONA LIL, UND TRIGONA JUR.\*

Von H. FRIESE in Jena (früher Innsbruck).

1. *Melipona nigripes* n. sp.

♀. Nigra, fulvo-hirta, capite albo-hirto, facie nigra, mandibulis, labro, antennisque fulvis, mandibulis inermibus, genis fere linearibus; abdomine opaco, segmentis 1—5 anguste flavo-marginatis; pedibus nigris, tibiatarum posticarum apice metatarsisque fuliginosis; alis lutescentibus, nervuris tegulisque ferrugineis. — Long. 9—10 mm.

4 ♀ von Guatemala (STOLL).

2. *Melipona lunulata* n. sp.

♀. Nigra, nigro-hirsuta, ut *peruviana*, sed thorace fuliginoso-hirsuto, abdominis segmento 2 utrinque flavomaculato, 3 utrinque macula luniformi, 4 utrinque maculis 2 parvis, 5 utrinque macula oblonga decoratis. — Long. 7½ mm, lat. 3½ mm.

1 ♀ von Bolivia (Yungas).

3. *Melipona rufescens* n. sp.

♀. Nigra, ferrugineo-hirsuta, facie opaca; thorace longe ferrugineo-hirsuto; abdomine opaco, subtilissime densissimeque ruguloso, segmentis 1—5 margine albo-marginatis, 3—5 ferrugineo-setosis; pedibus nigris aut fuscis; alis lutescentibus. — Long. 10 mm, lat. 4 mm.

4 ♀ von Bolivia (Yungas).

4. *Melipona nigrescens* n. sp.

♀. Nigra, ut *rufescens*, sed major (latior!), fusco-hirsuta, antennis fuscis; abdomine opaco, segmentis 1—5 albido-marginatis, 3—5 nigro-setosis. — Long. 10—11 mm. lat. 4½ mm.

\* Die umfangreiche Monographie mit 170 Arten folgt in nächster Zeit.

5 ♀ von *Columbia* (Popayan); im Mus. Budapest 1 ♀ von *Caucathal* auch in *Columbien*.

5. *Melipona eburnea* n. sp.

♀. Nigra, cinereo-fusco-hirta, ut *fasciata*, sed facie immaculata, clypeo sæpe fusco; abdomine nitido, segmento 1 eburneo, utrinque albo-fasciculato, 2—4 margine eburnis, 3—5 ferrugineo-setosis, 6 nigro-setoso; pedibus nigris; alis-testaceis. — Long. 11 mm, lat. 4 mm.

8 ♀ von *Bolivia* (Yungas) und *Peru* (Vilcanota).

6. *Melipona rufipes* n. sp.

♀. Fusca, rufo-fulvo-hirsuta; facie subtilissimi meruguloso-opaca, mandibulis, labro et antennis fuliginosis, thorace longe-hirsuto; abdomine fusco, ventre ferrugineo, scopa ferruginea; pedibus rufis, genibus tibiatarumque apice nigris; alis testaceis. — Long. 7½—8 mm, lat. 3 mm.

3 ♀ von *Brasilia* (Minas Geraes).

7. *Melipona flavolineata* n. sp.

♀. Nigra, abdomine fulvo, fulvo-hirsuto, ut *rufiventris*, sed minor, mesonoti lateribus late flavo-marginatis, tibiis posticis nigro-setosis. — Long. 9 mm, lat. 3½ mm.

5 ♀ von *Brasilia*: Para (SCHULZ); *Brasilia*: Teffé und *Peru* (Pebas) (Mus. Hung.).

8. *Melipona fuscipes* n. sp.

♀. Nigra aut fusca, cinereo-fuliginoso-hirta, rarissime fulvo-hirta, ut *rufiventris*, sed facie immaculata; abdomine rufo, segmentis 3—6 nigro-setosis; pedibus fuscis; alis lutescentibus. — Long. 10 mm, lat. 4 mm.

♂ operariæ (♀) similis, sed clypei disco lateribusque, orbitis albidis; antennis fulvis.

6 ♀ 2 ♂ *Venezuela*, *Columbia*, *Mexico*, *Brasilia* (Prov. Piahy) und *Peru* (Yquitos) (Mus. Hung.).

9. *Melipona peruwiana* n. sp.

♀. Nigra, nigro-hirsuta, ut *titania*, sed multo minor, facie opaca immaculataque; thorace longe fusco-hirsuto, scutello nigro; abdomine

transversim ruguloso et sparsim punctato; pedibus nigris; alis lutescentibus, tegulis fuscis. — Long.  $7\frac{1}{2}$ —8 mm, lat.  $3\frac{1}{2}$ — $3\frac{3}{4}$  mm.

2 ♀ von *Peru* (Callanga).

10. *Trigona tomentosa* n. sp.

♀. Nigra, rufo-fulvo-tomentosa, capite thoraceque subtilissime et densissime ruguloso-punctatis opacisque; scutello flavo; abdomine ferrugineo opacoque, segmentis obscure-nigro-fasciatis; alis fuscis, tegulis fuscis flavomaculatis. — Long. 8 mm, lat.  $3\frac{1}{2}$  mm.

3 ♀ von *Africa*: Goldküste, Kamerun und Congo.

11. *Trigona conradti* n. sp.

♀. Nigra, fulvo-hirta, abdomine rufo, ut *nebulata*, sed etiam scutello flavo-marginato, segmentorum marginibus haud nigro-coloratis. — Long. 6—7 mm, lat. 2 mm.

40 ♀ im Mus. Berlin aus *Africa*: Kamerun (Joh. Albrechtshöhe, Oktob.-Decbr. 1896, L. CONRADT).

12. *Trigona langhofferi* n. sp.

♂. Nigra, breviter griseo-hirsuta, capite thoraceque subtilissime ruguloso-punctatis, paulo nitidis, scutello metanotoque flavidis; abdomine ferrugineo, apice fusco; alis hyalinis. — Long. 6—7 mm.

2 ♂ von *West-Africa*: Accra (Goldküste).

Vielleicht das ♂ zu *erythra* oder *togoensis*? — Prof. Dr. LANGHOFFER in Zágráb zu Ehren benannt.

13. *Trigona lendliana* n. sp.

♀. Nigra, sparsim griseo-hirta, facie, scutello pedibusque flavomaculatis; abdomine nitido; alis hyalinis, nervuris tegulisque fuliginosis. — Long. 4 mm, lat.  $1\frac{1}{2}$  mm.

2 ♀ von *Africa*: Kamerun und Guinea.

Dr. LENDL in Budapest zu Ehren benannt.

14. *Trigona cameroonensis* n. sp.

♀. Nigra brevissime griseo-tomentosa, mandibulis labroque flavidis, antennis fuscis, capite thoraceque opacis, segmenti medii area glaberrima

nitidaque, utrinque albido-tomentosis; abdomine fusco, segmentis 1—3 glabris, 4—6 rugulosis opacisque; pedibus fuscis. — Long. 8—8½ mm, lat. 3 mm.

20 ♀ von *Africa*: Kamerun (Joh. Albrechtshöhe, Januar-März, L. CONRADT) im Mus. Berlin.

15. *Trigona buschirii* n. sp.

♂. Nigra, griseo-hirsuta, capite thoraceque opaco, abdomine fuliginoso, basi flavida; pedibus fuscis; alis hyalinis. — Long. 7—8 mm.

2 ♂ von *Africa*: Accra (Goldküste).

Vielleicht das ♂ zu *nebulata*?

16. *Trigona hildebrandti* n. sp.

♀. Nigra, longe griseo-hirsuta, ut *togoensis*, sed capite thoraceque subtiliter rugulosis nitidisque, clypei margine anteriore, labro et interoculari flavidis; segmento medio buccato; tibiis posticis sensim dilatatis. — Long. 5 mm, lat. 1¾ mm.

2 ♀ von *Ost-Africa*: Sansibar (HILDEBRANDT) im Mus. Berlin.

17. *Trigona magretti* n. sp.

♀. Minima, nigra, griseo-hirta; capite maximo, orbitis inferioribus fere parallelis, labro, mandibulisque flavis; antennis brevibus, longitudine capitis fuliginosis, scapo flavido; abdomine fuliginoso nitidoque; pedibus fuscis, tarsis flavidis; alis lacteis tenerrimis. — Long. 2 mm, lat. ¾ mm.

5 ♀ von *West-Africa*: Accra (Goldküste).

Dr. P. MAGRETTI zu Ehren benannt.

18. *Trigona latipes* n. sp.

♀. Ferruginea, capite mesonotoque nigris, subtilissime denseque rugulosis opacisque; thorace localiter densissime flavo griseo-tomentoso, mesonoti disco fere nudo, sparsim nigro-pubescente; abdominis segmentis 1—3 glabris nitidisque, ventre flavido-albo; pedibus fuscis, femoribus rufis, tibiis posticis ad apicem evidenter dilatatis, patelliformibus; alis flavidis. — Long. 7 mm, lat. abd. 1½ mm, thor. 2 mm.

1 ♀ von *Malacca* (Singapore).

19. *Trigona flavipennis* n. sp.

♀. Nigra, sparsim nigro-setosa, ut *ruficrus*, sed alis hyalinis, margine anteriore flavido, tibiis posticis plus minusve fulvis. — Long. 6 $\frac{1}{2}$  mm, lat. 2 mm.

3 ♀ von *Brasilien*: São Paulo.

20. *Trigona fuscipennis* n. sp.

♀. Atra, nigro-hirta, ut *hyalinata*, sed alis fuscis, nervuris flavidis, tegulis nigris. — Long. 6 mm, lat. 2 $\frac{1}{2}$  mm.

10 ♀ von *Guatemala, Columbia, Brasilien*: Para, Blumenau; *Panama* et *Mexico* (Mus. Hung.).

21. *Trigona lacteipennis* n. sp.

♀. Nigra, nigro-hirta; facie, thoracisque lateribus griseo-tomentosis; mandibulis apice rufis, inermibus; abdomine elongato, angusto compressoque; pedibus nigris nitidisque, tibiis posticis ad apicem dilatatis excavatisque, metatarsis angustis; alarum basi fusca, parte apicali lactea. — Long. 6 $\frac{1}{2}$  mm, lat. thor. 2 mm, abd. 1 $\frac{1}{4}$  mm.

10 ♀ von *Bolivia, Columbia; Brasilien*: São Paulo (Mus. Hung.).

22. *Trigona fulvohirta* n. sp.

♀. Nigra, fulvo-tomentosa et fulvo-hirsuta; facie tota plana, fere opaca, clypeo truncato; abdomine nigro aut fusco, segmentorum marginibus 1—5 fulvo-fimbriatis; pedibus nigris, tibiis posticis inflexis dilatatisque; alis lutescentibus, margine late-fusco, nervuris tegulisque luteis. — Long. 6 mm, alar. 7 mm, lat. 2 mm.

14 ♀ von *Columbia, Bolivia* und *Brasilien*: Para; *Peru* (Yquitos) (Mus. Hung.).

23. *Trigona helleri* n. sp.

♀. Nigra, nigro-hirta, ut *cupira*, sed alis fuscis, nervuris fuscis aut fuliginosis, tegulis fuscis; facie obscuriore. — Long. 6 mm, lat. 2 $\frac{1}{2}$  mm.

12 ♀ von *Brasilien*: Espirito Santo, Rio Janeiro und Blumenau.

Prof. C. HELLER in Innsbruck zu Ehren benannt.

24. *Trigona duckei* n. sp.

♀. Nigra aut fusca, vix griseo-tomentosa; capite thoraceque fere aeneis, subtiliter rugulosis, sed leviter nitidis, clypeo, interoculari et ore flavidis, genis distinctis, fronte sulcato; abdomine fere glabro, leviter nitido; pedibus fuliginosis, tibiis posticis evidenter dilatatis (latitudine metatarsi duplici), vix excavatis; alis albidis, tegulis flavidis. — Long. 2 mm, lat.  $\frac{2}{3}$  mm.

1 ♀ von *Brasilia*: Para (DUCKÉ), wo der Entdecker sie mehrfach in seinen Augen sammelte, wohin zu fliegen eine Vorliebe dieser Art sein soll; sonst auch wohl kaum mit dem Netze zu erbeuten.

Kleinste Bienen-Art!

Zu Ehren ADOLF DUCKÉ's, dem rührigen Entomologen des Museu paraense benannt.

25. *Trigona muelleri* n. sp.

♀. Nigra aut fusca, sparsim albedo-setosa, capite thoraceque glabris, nitidissimis, facie sparsim argenteo-setosa, genis quadratis, mandibulis labroque flavidis; antennis fuliginosis, scapo fulvo, fronte sulcato; abdomine fusco, glabro nitidoque; pedibus fuliginosis, tibiis posticis planis; alis hyalinis, nervuris albidis, tegulis flavidis. — Long.  $2\frac{1}{2}$  mm, lat.  $\frac{3}{4}$  mm.

1 ♀ von *Brasilia*: Blumenau (VIRGIL).

Prof. HERM. MUELLER in Lippstadt zu Ehren benannt.

26. *Trigona schulthessi* n. sp.

♀. Nigra, fere nuda, capite thoraceque subtilissime densissimeque sculpturatis, totis opacis; facie plana, fronte foveolata, mandibulis labroque rufis, genis distinctis; abdomine fusco, segmentis 1—3 glabris, nitidis, 4—6 leviter rugulosis; pedibus fuscis, rugulosis, opacis, tibiis posticis angustis, vix dilatatis, fere planis; alis hyalinis, nervuris fulvis, tegulis fuliginosis. — Long. 3 mm, lat. 1 mm.

3 ♀ von *Guatemala* (STOLL).

Dr. ANT. v. SCHULTHESS in Zürich zu Ehren benannt.

27. *Trigona schrottkyi* n. sp.

♀. Nigra, breviter albedo-hirta; capite thoraceque subtilissime densissimeque sculpturatis, toto-opacis, facie plana, dense albedo-hirta, mandibulis, labro oreque luteis, genis nullis; thorace opaco, segmento medio vix nitido, sed grosse ruguloso; abdomine fusco, segmentis 1—2 glabris,

3—6 leviter punctatis, tibiis posticis evidenter dilatatis, planis, rugulosissimis nitidisque, vix excavatis; alis hyalinis, nervuris tegulisque fuliginosis. — Long. 3 mm, lat.  $1\frac{1}{4}$  mm.

1 ♀ von *Brasilia*: Jundiaby, 20. Oktob. 1898 (SCHROTTKY) und Saõ Paulo.

28. *Trigona nigrifacies* n. sp.

♀. Nigra, sparsim fulvo-hirta, ut *quadripunctata*, sed minor, facie nigra, capite thoraceque nitidis; abdominis segmentis 1—2 fuliginosis, glabris-nitidisque; alis fumatis, nervuris tegulisque fuliginosis. — Long.  $5\frac{1}{2}$  mm, lat.  $1\frac{3}{4}$  mm.

1 ♀ von *Peru* (Callanga).

29. *Trigona kohli* n. sp.

*Trigona ferruginea* FRIESE i. l. 1899. (nec LEPELETIER).

♀. Ferruginea, griseo-tomentosa, fulvo-setosa; capite nitido, thoracis latitudine, interoculari opaco, mandibulis 5-dentatis, genis distinctis; pedibus ferrugineis, tibiis posticis sensim arcuatimque dilatatis, metatarso ad basin angusto; alis fumatis, nervuris testaceis, tegulis ferrugineis. — Long.  $5\frac{1}{2}$ —6 mm.

15 ♀ von *Peru, Columbia, Cayenne, Surinam* und *Brasilia*: Para (DUCKE, 13—17. Novbr. 1899); *Brasilia*: S. Paulo, Manaos, *Peru* (Pebas) (Mus. Hung.).

Custos F. F. KOHL in Wien zu Ehren benannt.

30. *Trigona braueri* n. sp.

♀ ♂. Pallida aut flavida, thorace fere testaceo, capite fuliginoso, ubique griseo-tomentoso et longe griseo-setoso; mandibulis 4-dentatis, genis distinctis; pedibus pallidis, albido-setosis, tibiis posticis sensim arcuatimque dilatatis, margine postico leviter sinuato, metatarso fere parallelo; alis fere hyalinis. — Long. 5—6 mm.

6 ♀ 4 ♂ von *Brasilia*: Espirito Santo (Saõ Leopoldina, MICHAELIS); im Mus. Wien zahlreiche Exemplare auch von *Brasilia* (Bahia).

Prof. FR. BRAUER in Wien zu Ehren benannt.

31. *Trigona dallatorreana* n. sp.

♀. Ferruginea, capite thoraceque griseo-tomentosis, thorace densius fulvo-tomentoso, mesonoto segmentoque medio saepe fuscis; mandibulis

dentatis, genis distinctis; abdomine polito, segmentorum marginibus fuscis, saepe totis fuscis; pedibus fulvis, flavido-hirsutis, setis ceriferis fuscis; alis hyalinis, fere lacteis. — Long. 7—7½ mm; lat. cap. 3 mm, thor. 2¼ mm, abd. 1½ mm.

8 ♀ von *Brasilia*: Para, Amazonas, *Surinam*; *Peru* (Pebas) (Mus. Hung.).

Prof. K. W. von DALLA TORRE in Innsbruck zu Ehren benannt.

### 32. *Trigona williana* n. sp.

♀. Ferruginea, capite abdomineque ad apicem saepe fuliginosis, fulvo-hirsutis; mandibulis dentatis, genis distinctis, antennis supra fere nigris; pedibus ferrugineis, setis ceriferis ferrugineis; alis luteis, marginibus late fumatis. — Long. 7½—8 mm; lat. cap. 3 mm, thor. 2¾ mm, abd. 2 mm.

15 ♀ von *Surinam*, *Brasilia*: Para, Amazonas; *Brasilia*: Obidos, Coary ad Amazonas et prov. Piahy (Mus. Hung.).

Prof. L. WILL in Rostock zu Ehren benannt.

### 33. *Trigona crassipes* F.

♀. Fusca, capite breviter albo-setoso, facie plana nitidaque, genis distinctis, mandibulis inermibus; thorace fuliginoso-hirto, mesonoto longe nigro-hirto; abdomine fusco aut fuliginoso, thoracis longitudine duplici, ad apicem nigro-hirto; pedibus fuscis, nigro-hirtis, tibiis posticis triangularibus, concavis, metatarsis buccatis, tibia latioribus; alis hyalinis, iridescentibus, nervuris fuliginosis, tegulis fuscis. — Long. 6—6½; lat. cap. 2 mm, thor. 1½ mm, abd. 1 mm.

1 ♀ von *Brasilia*: São Paulo.

### 34. *Trigona latitarsis* n. sp.

♀. Fusca, griseo-hirta, genis linearibus, mandibulis inermibus; abdomine fuliginoso, tibiis posticis triangularibus, concavis, metatarsis evidenter buccatis, tibia latioribus; alis hyalinis, nervuris tegulisque fuliginosis. — Long. 4 mm, lat. cap. 1⅓ mm, thor. 1¼, abd. 1 mm.

♂ differt: antennarum scapo flavido, tibiis convexis.

3 ♀, 3 ♂ von *Brasilia*: São Paulo, *Surinam*; im Mus. Budapest mehrere ♂ auch von *Brasilia*: (São Paulo).



35. *Trigona flaveola* n. sp.

♀. Ferruginea, fulvo-hirta, ut *cacafogo*, sed thorace ferrugineo, femoribus ferrugineis; alis hyalinis, basi fuscata, ptero stigmatate flavido, cellula radiali hyalina. — Long. 4 $\frac{1}{2}$ —5 mm, lat. cap. 3 mm, thor. 2 mm, abd. 1 $\frac{1}{2}$  mm.

11 ♀ von *Columbia, Guatemala* (Stoll) und *Brasilien*: Espirito Santo (MICHAËLIS).

Vorläufig wohl als *Var.* zu *cacafogo*.

36. *Trigona obscura* n. sp.

♀. Media, ut *cacafogo*, sed capite (facie excepta!), scutello abdomineque nigris, fusco-hirtis; alarum basi fusca, margine cellulae radiali hyalinis. — Long. 4 mm.

♂ differt, sed angustior, alis fere hyalinis.

4 ♀, 1 ♂ von *Cayenne, Peru*; mehrere ♀ im Mus. Bruxelles.

37. *Trigona hellwegeri* n. sp.

♀. Ferruginea, ut *dorsalis*, sed fronte, scutello, segmento medio, abdomineque nigris, facie fere opaca, antennis ferrugineis, mesonoto ferrugineo-hirto; abdomine ruguloso-punctato opacoque, segmentis 1—5 disco nigro; pedibus rufis, nigromaculatisque. — Long. 5—5 $\frac{1}{2}$  mm, lat. 2 $\frac{1}{2}$  mm.

7 ♀ von *Mexico* (Cuantla und Jacubaya); im Mus. Wien 2 ♀ von Cornu vacca, (BIBINEK 1871); 8 Exempl. von *Mexico* (Mus. Hung.).

Prof. M. HELLWEGGER in Brixen (z. St. Innsbruck) zu Ehren benannt.

38. *Trigona rhumbleri* n. sp.

♀. Testacea, flavido-hirta, ut *pallida*, sed tibiarum posticarum apice tarsisque posticis et intermediis fuscis. — Long. 6—6 $\frac{1}{2}$  mm, lat. 2 mm.

16 ♀ von *Brasilien*: Para, *Columbia* (Popayan, Martha) und *Peru* (Vilcanota).

Prof. L. RUMBLER in Göttingen zu Ehren benannt

39. *Trigone heideri* n. sp.

♀. Ferruginea, breviter griseo-tomentosa, luteo-hirsuta capite thoraceque partim nigris, capite longitudine latiore, clypeo scuto frontali, interoculari, labroque flavis, mandibulis inermibus, genis distinctis; me-

sonoto nigro, utrinque flavo-marginato; abdominis segmentis sæpe piliformiter nigro-fasciatis, tibiis posticis apice metatarsisque fuscis; alis luteis, marginibus fumatis. — Long. 9—10 mm, lat. cap. 3 mm, thor.  $2\frac{1}{3}$  mm, abd. 2 mm.

14 ♀ von *Brasilia*: Para (Ducke, 29. Septbr.—11. Novbr. 1899), *Columbia*, *Peru* (Vilcanota); *Brasilia*: S. Paulo, Obidos, Fonteboa, Amazonas und *Peru* (Mus. Hung.).

Prof. C. HEIDER in Innsbruck zu Ehren benannt.

#### 40. *Trigona goettei* n. sp.

♀. Ferruginea, capite thoraceque partim nigris, ut *heideri*, sed minor, genis fere linearibus, antennis supra nigris; abdominis apice brunnescente; alis totis fumatis. — Long. 7— $7\frac{1}{2}$  mm, lat. corp.  $2\frac{1}{2}$  mm, thor. 2 mm, abd.  $1\frac{1}{2}$  mm.

16 ♀ von *Bolivia* (Yungas, *Peru* (Vilcanota) Callanga) und *Brasilia*: Amazonas.

Prof. A. GOETTE in Strassburg zu Ehren benannt.

#### 41. *Trigona mocsáryi* n. sp.

♀. Ferruginea, capite mesonotoque nigris, griseo-tomentosis, luteo-hirsutis, ut *heideri*, sed minor, abdomine latiore; pedibus posticis toto ferrugineis. — Long. 8— $8\frac{1}{2}$  mm, lat. cap.  $2\frac{1}{2}$  mm, thor. 2 mm, abd. 2 mm.

3 ♀ von *Surinam* und *Brasilia*: Para.

Custos A. MOCSÁRY in Budapest zu Ehren benannt.

#### 42. *Trigona doederleini* n. sp.

♀. Ferruginea, fulvo-hirta, capite mesonotoque nigris, glabris nitidisque, facie flavo-maculata, mandibulis inermibus, genis fere linearibus; mesonoto utrinque flavo-marginato, scutello flavido, evidenter prominente; pedibus fulvis, tibiis posticis, paulo dilatatis applanatisque; alis basi fumata, apice lacteis, nervuris tegulis fulvis. — Long.  $4\frac{1}{2}$ —5 mm, lat. cap. 2 mm, thor.  $1\frac{3}{4}$  mm, abd.  $1\frac{1}{4}$  mm.

6 ♀ von *Brasilia*: Bahia und *Chiriqui*; mehrere ♀ auch im *Mus. München*; *Brasilia*: Bahia und Obidos (Mus. Hung.).

Prof. L. DOEDERLEIN in Strassburg zu Ehren benannt.

43. *Trigona ziegleri* n. sp.

♀. Ferruginea, capite mesonotoque nigris, breviter griseo-hirta, facie flava, genis linearibus, mandibulis inermibus; mesonoto utrinque flavo-marginato, scutello metanotoque flavis; tibiis posticis sensim dilatatis, concavis apiceque nigris; alis hyalinis. — Long. 5½ mm, lat. cap. 2 mm, thor. 1¾ mm, abd. 1½ mm.

4 ♀ von Brasilia: Amazonas und Para; Mus. Wien 1 ♀ von Amazonas; Panama und Venezuela (Mus. Hung.).

Prof. H. E. ZIEGLER in Jena zu Ehren benannt.

44. *Trigona handlirschii* n. sp.

♀. Ferruginea spartim griseo-hirta, capite mesonotoque nigris, clypeo scutoque frontali fuliginosis, orbitis evidententer convergentibus, clypeo longitudine vix latiore, genis nullis, mandibulis inermibus, antennis fuliginosis, scapo flavido; mesonoto utrinque flavo-marginato; scutello, lobis, metanotoque ferrugineis, tibiis posticis sensim dilatatis, concavis, apice nigris, metatarsis nigris; alis fere lutescentibus, nervuris tegulisque ferrugineis. — Long. 5 mm.

1 ♀ von Brasilia.

Custos-Adjunkt A. HANDLIRSCH in Wien zu Ehren benannt.

45. *Trigona droryana* n. sp.

♀. Capite thoraceque nigris, abdomine flavido-fuliginoso, segmentorum marginibus fusciscentibus; facie albido signata, genis linearibus, mesonoto utrinque albido-marginato, scutello albido-marginato, lobis albidis; pedibus testaceis; alis hyalinis, nervuris fuliginosis, tegulis flavidis. — Long. 3½—3¾ mm.

♂ toto fuscis, clypeo fulvis. — Long. 4 mm.

2 ♀, 2 ♂ von Brasilia: Espirito Santo; Mus. Wien mehre ♀ von Bahia durch DRORY als «Inhati» bezeichnet.

46. *Trigona goeldiana* n. sp.

♀. Nigra, abdomine fuliginoso, facie albo-hirta, flavo-signata, mandibulis rufis, inermibus, genis nullis; pronoto flavo, mesonoto utrinque, scutello labroque flavo-marginatis; pedibus fuscis, genibus testaceis, tibiis posticis sensim arcuatimque dilatatis; alis hyalinis, nervuris fuliginosis, tegulis albidis, antice nigro-maculatis. — Long. 2½ mm, lat. 1 mm.

♂ differt: oculis majoribus, orbitis evidenter convergentibus, clypeo orbitam tangente.

3 ♀, 1 ♂ von *Brasilia*: Para (DUCKE); *Venezuela* (Mus. Hung.).

Dr. E. GÖLDI in Para zu Ehren benannt.

47. *Trigona saiqui* n. sp.

♀. Fusca, abdomine fere fulvo, segmentorum marginibus obscurioribus, ut *mosquito*, sed major, genis distinctis, facie scutelloque unicoloribus fuliginosis. — Long. 5 mm, lat. 1½ mm.

♀ ut *molesta*, ♀ sed tibiis posticis paulo concavo. — Long. 8—8½ mm.

14 ♀ 1 ♂ von *Brasilia*: S. Catharina (S. Leopoldo, DUTRA 1898).

Volksname ist «Saiqui».

48. *Trigona emerina* n. sp.

♀. Nigra, abdomine fuliginoso, segmentorum marginibus obscurioribus, ut *mosquito*, sed minor, ore scutelloque albidis. — Long. 4 mm, lat. 1 mm.

♀ ut *mosquito* ♀, sed pedibus fulvis. — Long. 7 mm.

20 ♀ 3 ♂ von *Brasilia*: Parana (Curityba, SCHENCK) und S. Catharina (S. Leopoldina, DUTRA).

Volksname ist «Emerina».

49. *Trigona voeltzkovi* n. sp.

♀. — Nigra, ut *madecassa*; sed paulo major, capite quadrato, orbitis inferioribus fere parallelis; pedibus intermediis obscuris. — Long. 3½ mm., lat. 1¼ mm.

2 ♀ von *Madagascar* (Nossi-bé, am 7. Oktober 1895. Dr. A. VOELTZKOW leg.).

50. *Trigona madecassa* SAUSS.

1891. — *Trigona madecassa* SAUSSURE, ♀ — Grandidier: Hist. Madagascar XX. p. 4.; T. 1. F. 3.

1895. — *Trigona bottegoi* MAGRETTI, ♀ — Ann. Mus. Genova XXXV. p. 156.

♂ — wie der Arbeiter (♀), aber innere Augentränder stark convergirend, Kopf breiter als lang; 2 Geißelglied sehr schmal (kurz), die folgenden quadratisch.

2 ♂ von *Madagascar* (Nossi-bé, am 7.—8. August 1895. Dr. A. VOELTZKOW leg.).

51. *Trigona alfeni* n. sp.

♀. — Nigra, fusco- aut fuliginoso-hirta, ut *cupira*; sed facie flavo-signata abdomineque flavo-fasciato; alis longissimis lutescentibus. — Long.  $6\frac{1}{2}$  mm., lat. 2 mm., lat. cap.  $2\frac{1}{2}$  mm.

3 ♀ von Venezuela (St. Parime).

Prof. Dr. ALFEN in Bremen zu Ehren benannt.

52. *Trigona haeckeli* n. sp.

♀. — Ferruginea, vix albedo-hirta, capite thoraceque opacis, evidenter flavo-signatis, genis distinctis fuscisque, antennarum scapo medio dilatato; alis vix fumatis, apice obscuriore. — Long.  $3\frac{1}{2}$  mm., lat.  $1\frac{1}{4}$  mm.

2 ♀ von Peru (Callanga).

53. *Trigona butteli* n. sp.

♀. — Ferruginea, sparsim fulvo-hirta, capite quadrato, occipite fusco, facie albida; mesonoto utrinque flavo-marginato, scutelli lobis flavis; abdominis segmentis 1—5 fusco-marginatis; tibiis posticis excavatis, apice metatarsisque fuliginosis. — Long. 5 mm., lat.  $1\frac{3}{4}$  mm.

2 ♀ von Peru (Vilcanota).

H. v. BUTTEL-REEPEN in Jena, dem gründlichen Bienenkenner, zu Ehren benannt.

54. *Trigona franki* n. sp.

♀. — Ferruginea, sparsim albedo-hirta, capite thoraceque subtiliter sparsimque punctatis, nitidis, facie albida; mesonoto utrinque obscure albido-marginato; tibiis posticis fere convexis, metatarsis fere parallelis. — Long.  $3\frac{1}{2}$  mm., lat.  $1\frac{1}{4}$  mm.

1 ♀ von Columbia.

Herrn A. FRANK in Erfurt zu Ehren benannt.

55. *Trigona graeffei* n. sp.

♀. — Fuliginosa, vix hirsuta, capite thoraceque subtiliter rugulosis, ut *ducke*, sed paulo major, capite longitudine latiore. — Long.  $2\frac{1}{3}$  mm., lat.  $\frac{7}{8}$  mm.

1 ♀ von Columbia.

Dr. E. GRAEFFE in Triest zu Ehren benannt.

56. *Trigona portoi* n. sp.

♀. — Ferruginea, dense fulvo-hirta, capite mesonotoque nigris, vix punctatis nitidisque, ut jaty; sed orbitis intus extusque flavis; alis fumatis, cellula radiali fusca. — Long.  $4\frac{1}{2}$  mm., lat. 1 mm.

2 ♀ von *Para*, am 9. und 20. December 1899 von DUCKE gesammelt.  
Dr. Porto in Para, Subdirektor des Museu parãense, zu Ehren benannt.

57. *Melipona caerulea* n. sp.

♀. — Cærulea, albido-hirta, abdomine rufo, facie thoraceque flavo-signatis, antennis fuscis, articulo ultimo applanato excavatoque. — Long.  $6-6\frac{1}{2}$  mm., lat. 2 mm.

1 ♀ von *Brasil* (Blumenau [Indayal] von G. VIRGIL gesammelt).

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