

Perhaps the most striking difference in the habits of the two species is indicated by the fact that the eggs and larvæ obtained by Grossbeck were dug from open burrows and nothing was seen like a covered burrow. *Emphor fuscojubatus* very plainly makes use of the turret earth and even the ejected pellets for covering the nest not long after oviposition, leaving, however, a nearly circular depression somewhat like the impression of a finger tip in the sand.

That no bees were seen at Arlington after Sep. 3 may very well have been due to unfavorable weather conditions. At Cape May Point some were still active during the first week of September, but how much longer I do not know.

The death rate of the larvæ must be high, for from twenty-one cocoons preserved by Grossbeck he reports as emerging only one male and six females. This took place between July 11 and July 20, although on July 21 no bees were seen in the vicinity of the nesting site. Probably the time of emerging from the cocoon is nearly the same for *E. fuscojubatus*, although I have as yet made no observations on this point.

ANTS COLLECTED IN GEORGIA BY DR. J. C. BRADLEY AND MR. W. T. DAVIS.

BY WILLIAM MORTON WHEELER.

The following list is compiled from a large collection of ants made in different parts of Georgia by Dr. J. C. Bradley and a smaller collection made by Mr. W. T. Davis in a more restricted area. I have indicated the names of these collectors by their initials for each locality.

FAMILY FORMICIDÆ.

Subfamily Ponerinæ.

1. *Stigmatomma pallipes* Haldem.—Clayton (J. C. B.); Black Rock Mt., Rabun Co. (W. T. D.).
2. *Ponera trigona* Mayr var. *opacior* Forel.—Gainesville and Billy's Island, Okefenokee Swamp (J. C. B.).
3. *Ponera opaciceps* Mayr.—St. Simon's Island (J. C. B.).
4. *Ponera coarctata* Latr. subsp. *pennsylvanica* Buckley.—Spring Creek, Burton, Thalman and Atlanta (J. C. B.).

5. *Odontomachus hæmatoda* L. subsp. *insularis* Guérin.—Bainbridge, Ducker, Spring Creek and Billy's Island, Okefenokee Swamp (J. C. B.).

Subfamily Dorylinæ.

6. *Eciton (Acamatus) opacithorax* Emery.—Darien (J. C. B.); Clayton (W. T. D.).

Subfamily Myrmicinæ.

7. *Pseudomyrma brunnea* F. Smith.—Bainbridge, Cumberland, St. Simon's Island and Billy's Island, Okefenokee Swamp (J. C. B.).
8. *Pseudomyrma pallida* F. Smith.—Spring Creek and Tybee Island (J. C. B.).
9. *Pseudomyrma flavidula* F. Smith.—Ogelthorpe and Billy's Island, Okefenokee Swamp (J. C. B.).
10. *Myrmecina graminicola* Latr. subsp. *americana* Emery.—Gainesville (J. C. B.).
11. *Myrmica scabrinodis* Nyl. var. *schencki* Emery.—Clayton (W. T. D.).

12. *Leptothorax bradleyi* sp. nov.

Worker. Length 2.6 mm.

Head rather large, subrectangular, a little longer than broad, with straight, parallel sides and feebly excised posterior border. Eyes rather small, at the middle of the sides of the head. Mandibles and clypeus moderately convex, the latter with straight, entire anterior border. Frontal area small and indistinct. Antennæ 11-jointed; scapes reaching half way between the eyes and the posterior corners of the head; funiculi with a 3-jointed club; first funicular joint as long as the three succeeding joints together; joints 2-6 much broader than long, joint 7 as long as broad; terminal joint longer than the two penultimate joints together. Thorax rather robust, narrower than the head, broader in front than behind, but as high behind as in front, with flattened dorsal and lateral surfaces and rather angular humeri, without any traces of a mesoëpinotal constriction. Epinotal spines stout, as long as broad at their bases, laterally compressed, suddenly tapering at their tips, directed backward and slightly upward, further apart at their bases than long. Petiole from above about $1\frac{1}{2}$ times as long as broad, pyriform, with rounded sides; its node in profile with feebly concave anterior and decidedly convex posterior slopes, meeting with a distinct transverse ridge, the lower border in profile feebly concave and with a small, compressed anterior tooth. Postpetiole from above transversely elliptical, slightly broader than the petiole, slightly broader than long, in profile smaller than the petiole, as long as high, with evenly rounded, convex node. Gaster elongate elliptical, its sides rather straight, its anterior border excised in the middle. Legs stout, with incrassated femora.

Head, including the mandibles, thorax, petiole, postpetiole and antennæ opaque; gaster and legs shining. Mandibles finely longitudinally striated. Clypeus coarsely longitudinally rugose, on the sides reticulately rugose. Head above and on the sides finely and evenly longitudinally rugose, with the interrugal spaces reticulate-punctate. Thorax, petiole and postpetiole densely punctate, the thorax also reticulately and longitudinally rugose both on the dorsal and pleural surfaces.

Hairs yellowish, short and rather abundant, clavate and erect on the head, thorax and abdomen, appressed and pointed on the legs and scapes.

Color ferruginous red; antennæ, legs and gaster, except the posterior borders of the segments, somewhat paler; mandibular teeth black.

Described from a single specimen taken by Mr. J. C. Bradley on Billy's Island in the Okefenokee Swamp.

In the shape of the body and in coloration, this species is very similar to *L. schaumii* Roger, but differs in the much coarser, longitudinal rugosity of the head and thorax, much larger and differently shaped epinotal spines and in the shape of the petiolar node, the sides and posterior declivity of which are much more convex and rounded. From *L. fortinodis* Mayr., *bradleyi* differs in these same characters, except the shape of the petiole, and in the paler coloration.

13. *Leptothorax curvispinosus* Mayr.—Atlanta and Clayton (J. C. B.).
14. *Leptothorax* (*Dichothorax*) *pergandei* Emery.—Atlanta (J. C. B.).
15. *Pogonomyrmex badius* Latr.—Bower Station, Albany, Bainbridge, Spring Creek, Tybee Island, St. Simon's Island and Billy's Island, Okefenokee Swamp (J. C. B.).
16. *Aphænogaster lamellidens* Mayr.—Gainesville, Spring Creek and Thunderbolt (J. C. B.).
17. *Aphænogaster treatæ* Forel.—Tallulah Falls, Clayton and Black Rock Mt., 2000–3500 ft. (J. C. B.).
18. *Aphænogaster treatæ* Froel var. *ashmeadi* Emery.—Atlanta and St. Simon's Island.
19. *Aphænogaster fulva* Roger.—Black Rock Mt., Spring Creek and Gainesville (J. C. B.).
20. *Aphænogaster fulva* Roger subsp. *aquia* Buckley.—Summer-ville, Tallulah Falls, Clayton, Atlanta, Black Rock Mt., and Billy's Island, Okefenokee Swamp (J. C. B.).
21. *Aphænogaster tennesseensis* Mayr.—Clayton (J. C. B. and W. T. D.).

22. *Monomorium minimum* Buckley.—Cave Springs, Spring Creek, Atlanta, Thunderbolt and Billy's Island, Okefenokee Swamp (J. C. B.).
23. *Monomorium pharaonis* L.—Albany (J. C. B.).
24. *Crematogaster ashmeadi* Mayr.—Gainesville and Atlanta (J. C. B.).
25. *Crematogaster lineolata* Say.—Oglethorpe, and Billy's Island, Okefenokee Swamp, Atlanta (J. C. B.).
26. *Crematogaster lineolata* Say var. *lutescens* Emery.—Athens, St. Simon's Island, Tallula Falls, Gainesville, Fitzgerald and Billy's Island, Okefenokee Swamp (J. C. B.).
27. *Crematogaster lineolata* Say var. near *lutescens* Emery.—Tallulah Falls, Spring Creek, Black Rock Mt. and Gainesville (J. C. B.).
28. *Crematogaster lineolata* Say var. *subopaca* Emery.—Black Rock Mt. (J. C. B.).
29. *Crematogaster lineolata* Say subsp. *subpilosa* Pergande.—Clayton, 2000–3500 ft. (W. T. D.).
30. *Solenopsis geminata* Fabr.—St. Simon's Island, Spring Creek, Waycross and Billy's Island, Okefenokee Swamp (J. C. B.).
31. *Pheidole vinelandica* Forel.—Clayton and Gainesville (W. T. D.).
32. *Pheidole tysoni* Forel.—Tallulah Falls (J. C. B.); Clayton (W. T. D.).
33. *Pheidole metallescens* Emery.—Thunderbolt and St. Simon's Island (J. C. B.).
34. *Pheidole dentata* Mayr.—Cornelia (W. T. D.).
35. *Pheidole dentata* Mayr. var. *faisonica* Forel.—Tallulah Falls (J. C. B.).
36. *Pheidole dentata* Mayr. var.—St. Simon's Island, Tybee Island, Gainesville and Spring Creek (J. C. B.).
37. *Pheidole crassicornis* Emery.—Bainbridge (J. C. B.).
38. *Pheidole crassicornis* Emery var.—Black Rock Mt. (J. C. B.).
39. *Atta* (*Trachymyrmex*) *septrionalis* MacCook.—Bainbridge and Spring Creek (J. C. B.).

Subfamily Dolichoderinae.

40. *Dolichoderus* (*Hypoclinea*) *mariae* Forel.—Toccoa and Clayton (J. C. B.).

41. *Dolichoderus* (*Hypoclinea*) *pustulatus* Mayr. var. *beutenmuelleri* Wheeler.—Cornelia (W. T. D.).
42. *Dorymyrmex pyramicus* Roger.—Atlanta, Ducker and Gainesville (J. C. B.).
43. *Dorymyrmex pyramicus* Roger var. *flavus* MacCook.—Spring Creek, Gainesville, Thunderbolt and Atlanta (J. C. B.).
44. *Iridomyrmex pruinosus* Roger.—Tybee Island, Savannah and Billy's Island, Okefenokee Swamp (J. C. B.).
45. *Iridomyrmex pruinosus* var. *analisis* Ern. André.—Atlanta and Gainesville (J. C. B.).
46. *Tapinoma sessile* Say.—Waycross and Spring Creek (J. C. B.).

Subfamily Camponotinae.

47. *Prenolepis imparis* Lay.—Clayton, 2000–3700 ft. (W. T. D.).
48. *Prenolepis imparis* Lay var. *testacea* Emery.—Gainesville. Tybee Island, Marietta and Atlanta (J. C. B.).
49. *Prenolepis* (*Nylanderia*) *longicornis* Latr. Bainbridge; “a very annoying pest and excessively abundant” (J. C. B.).
50. *Prenolepis* (*Nylanderia*) *arenivaga* Wheeler.—Spring Creek (J. C. B.).
51. *Prenolepis* (*Nylanderia*) *vividula* Nyl.—Gainesville and Billy's Island, Okefenokee Swamp (J. C. B.).
52. *Lasius niger* L. var. *americanus* Emery.—Gainesville and Tybee Island (J. C. B.).
53. *Lasius* (*Acanthomyops*) *murphyi* Forel.—Clayton (J. C. B.).
54. *Lasius* (*Acanthomyops*) *interjectus* Mayr.—Gainesville (J. C. B.).
55. *Formica truncicola* Nyl. subsp. *integra* Nyl.—Atlanta and Stone Mt. (J. C. B.).
56. *Formica truncicola* Nyl. subsp. *obscuriventris* Mayr.—Clayton (W. T. D.).
57. *Formica difficilis* Emery var.—Clayton (W. T. D.).
58. *Formica fusca* L. var. *subsericea* Say.—Black Rock Mt. and Spring Creek (J. C. B.).
59. *Formica* (*Neoformica*) *pallidefulva* Latr.—Tallulah Falls, Marietta, Ducker, Clayton, Clarkesville, Atlanta and Black Rock Mt. (J. C. B.).
60. *Formica* (*Neoformica*) *pallidefulva* Latr. subsp. *schaufussi* Mayr.—Black Rock Mt. (J. C. B.).

61. *Formica* (*Neoformica*) *pallidefulva* Latr. subsp. *schaufussi* Mayr. var. *dolosa* Wheeler—Clayton (W. T. D.).
62. *Formica* (*Neoformica*) *pallidefulva* Latr. subsp. *nitidiventris* Emery var. *fuscata* Emery—Thunderbolt and Savannah (J. C. B.).
63. *Camponotus socius* Roger.—Spring Creek, Ducker and Darien (J. C. B.).
64. *Camponotus abdominalis* Roger subsp. *floridanus* Buckley.—Bainbridge, Brunswick, St. Simon's Island, Tybee Island, Spring Creek, Honey Island and Billy's Island, Okefenokee Swamp (J. C. B.); St. Mary's (O. Bangs).
65. *Camponotus castaneus* Latr.—Tallulah Falls and Waycross (J. C. B.).
66. *Camponotus castaneus* Latr. subsp. *americanus* Mayr.—Summerville, Black Rock Mt. and Billy's Island, Okefenokee Swamp (J. C. B.).
67. *Camponotus herculeanus* L. subsp. *pennsylvanicus* DeGeer.—Clayton (W. T. D.); Bainbridge, Summerville, Vienna, Cave Springs, Spring Creek and Blackspear (J. C. B.).
68. *Camponotus herculeanus* L. subsp. *pennsylvanicus* DeGeer var.—Gainesville (J. C. B.).
69. *Camponotus fallax* Nyl. var. *nearcticus* Emery.—Burton, Clayton and Billy's Island, Okefenokee Swamp (J. C. B.).
70. *Camponotus fallax* Nyl. subsp. *discolor* Emery.—“Georgia” (J. C. B.).
71. *Camponotus fallax* Nyl. var. near. *decipiens* Emery.—Athens (J. C. B.); Clayton, 2000–3700 ft. (W. T. D.).
72. *Camponotus* (*Colobopsis*) *impressus* Roger.—Spring Creek and St. Simon's Island (J. C. B.).



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