# THE COLOURED PHOTOS

Acknowledgement: I thank very much my friend ALEX BEIGEL for the competent help (using image stacking software) with most of the digitalized photos!

Material: Most extant spiders were collected in the continental Europe.
CJW = collection of J. WUNDERLICH.

The photos are arranged as follows:

1 – 47: Fossil spiders in European Eocene (Baltic, Bitterfeld, Rovno/Ukrainian) ambers.

48 – 52: Fossil spiders in Miocene Dominican amber.

53 – 57: Fossil spiders in Cretaceous ambers from Burma and New Jersey.

58 – 67: Subrecent spiders in copal from Madagascar.

68 – 77: Wound repair, healing events in fossil and extant spiders.

78 – 95: Extant European spiders.

Fig. 1: Clostes ?priscus MENGE

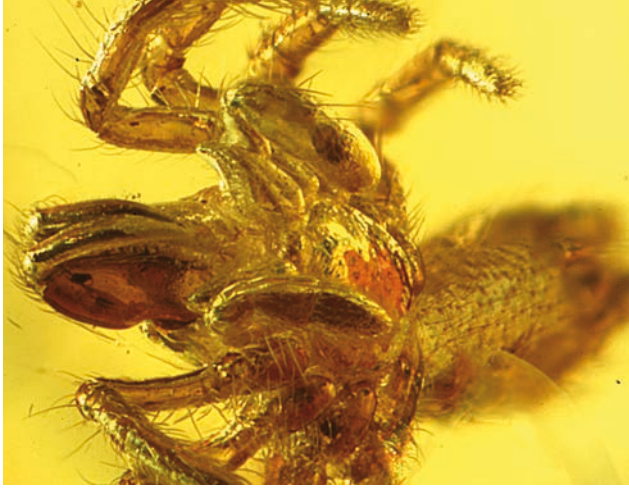


Fig. 2b: Balticatypus juvenis

Fig. 2a: Balticatypus juvenis

Fig. 3a: Balticatypus beigeli

Fig. 3b: Balticatypus beigeli

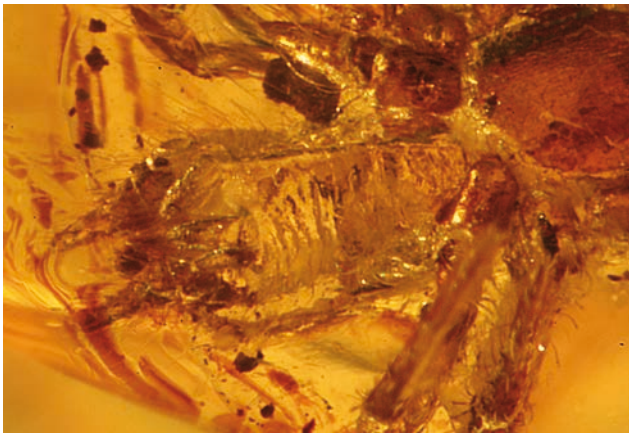


Fig. 3c: Balticatypus beigeli

Fig. 3d: Balticatypus beigeli

Fig. 4a: Balticatypus spinosus

Fig. 4b: Balticatypus spinosus

Fig. 4c: Balticatypus spinosus

Fig. 5b: Harpactea longibulbus

Fig. 5a: Harpactea longibulbus

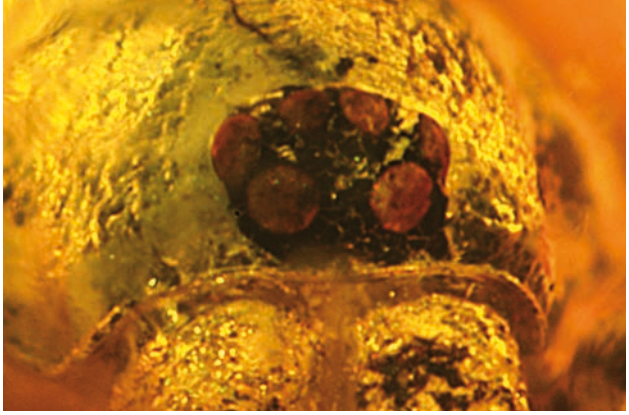


Fig. 5c: Harpactea longibulbus

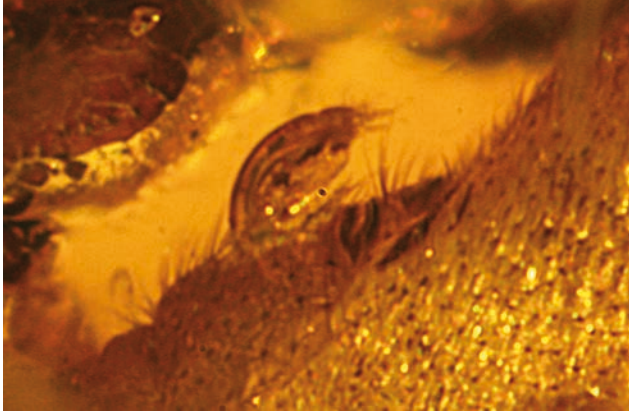


Fig. 5d: Harpactea longibulbus

Fig. 6: Orchestina (Baltorchestina) imperialis PETRUNKEVITCH

Fig. 7: Orchestina (Baltorchestina) rectangulata

Fig. 8a: Scytodes s. l. sp. indet.

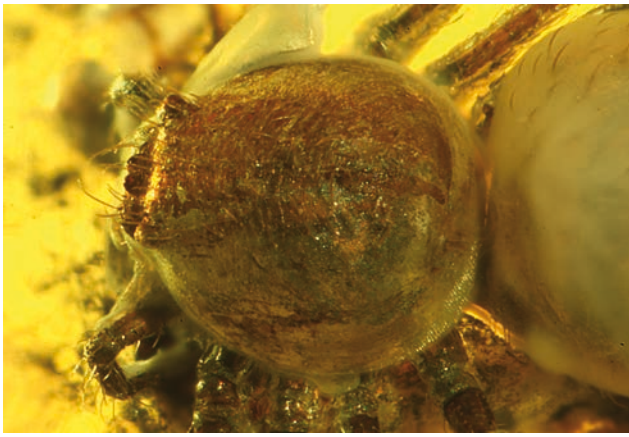


Fig. 8b: Scytodes s. l. sp. indet.

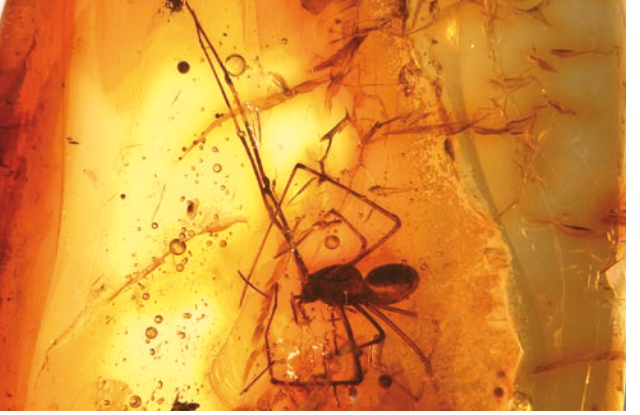


Fig. 9a: Scytodes s. l. sp. indet.

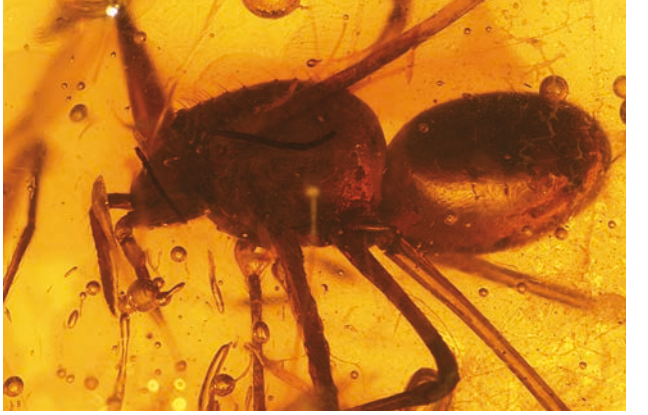


Fig. 9b: Scytodes s. l. sp. indet.

Fig. 10a: Pholcidae indet.

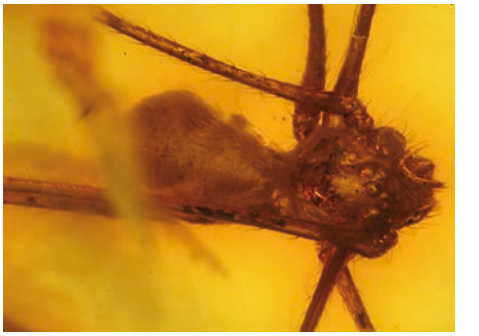


Fig. 10b: Pholcidae indet.

Fig. 11a: Paraspermophora sp. indet.

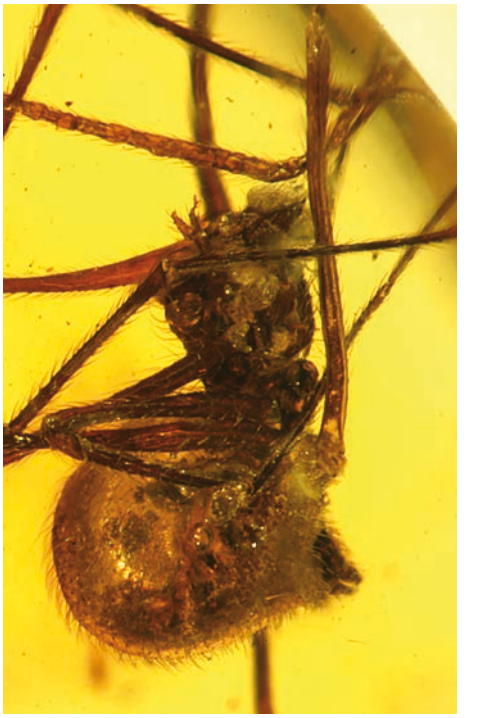


Fig. 11b: Paraspermophora sp. indet.

Fig. 12a: Paraspermophora sp. indet.

Fig. 12b: Paraspermophora sp. indet.

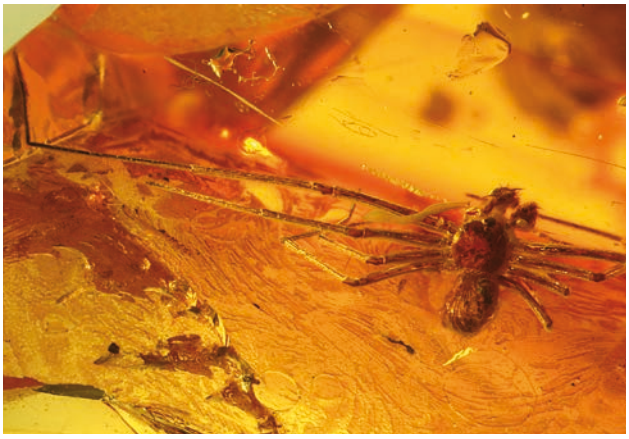


Fig. 13a: Oligoleptoneta cymbiospina

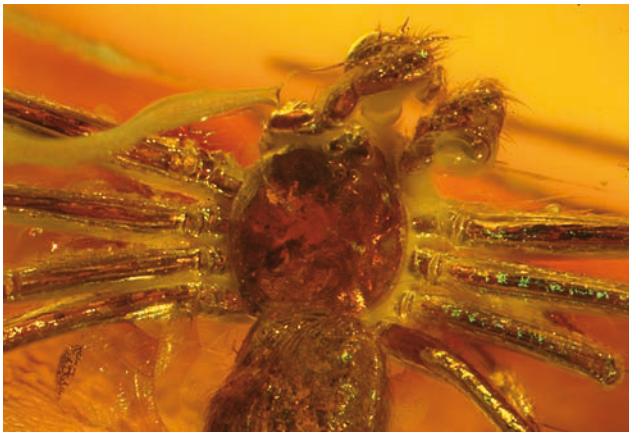


Fig. 13b: Oligoleptoneta cymbiospina

Fig. 14a: Eoleptoneta multispinae

Fig. 14b: Eoleptoneta multispinae

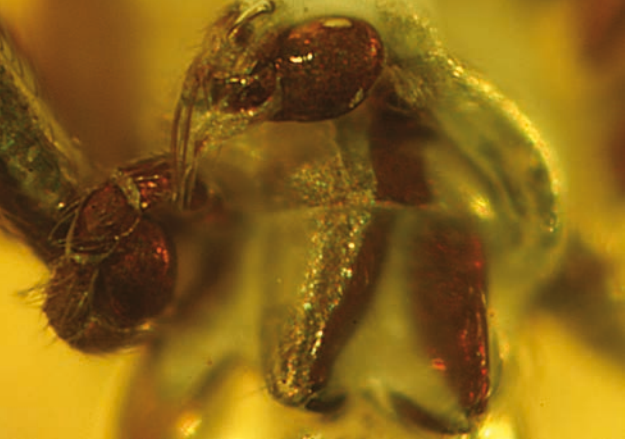


Fig. 15: Eoleptoneta multispinae

Fig. 16b: Eoleptoneta pseudoarticulata

Fig. 16a: Eoleptoneta pseudoarticulata

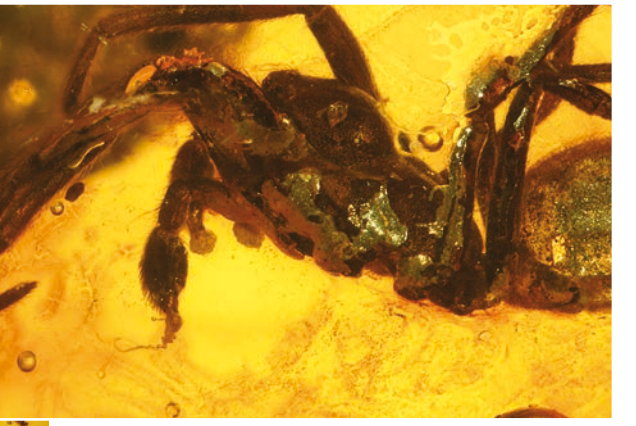


Fig. 17b: Spatiator caulis

Fig. 17a: Spatiator caulis

Fig. 18: Mizalia sp. indet.

Fig. 19: Mizalia sp. indet.

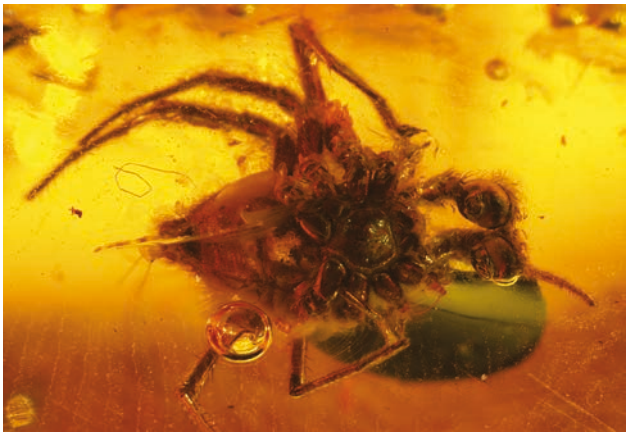


Fig. 20a: Mizalia sp. indet.

Fig. 20b: Mizalia sp. indet.

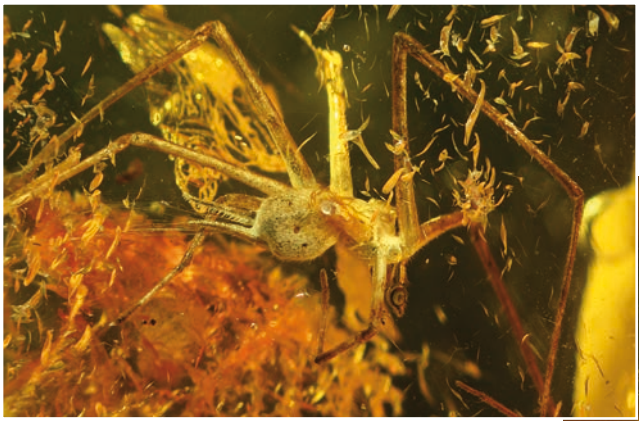
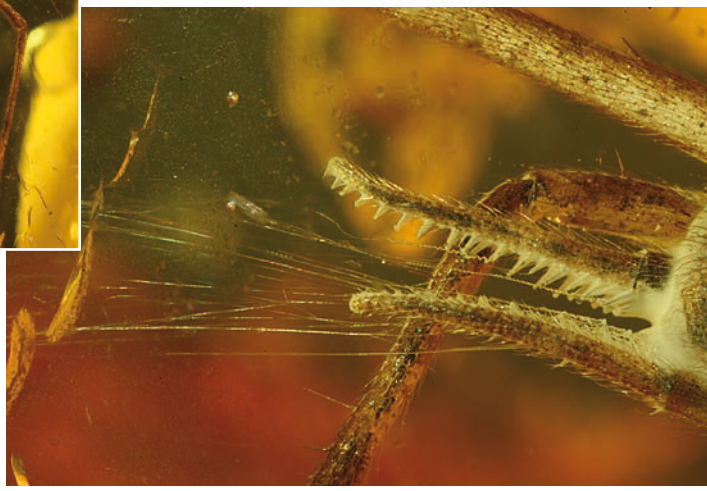


Fig. 21a: Gerdiorum inflexum

Fig. 21b: Gerdiorum inflexum



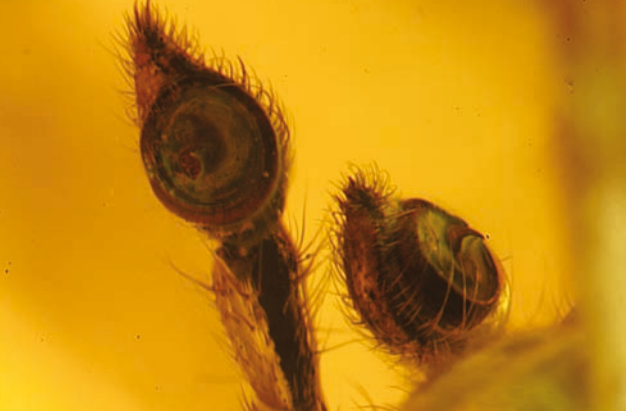


Fig. 21c: Gerdiorum inflexum

Fig. 22a: Eomiagrammopes semiapertus

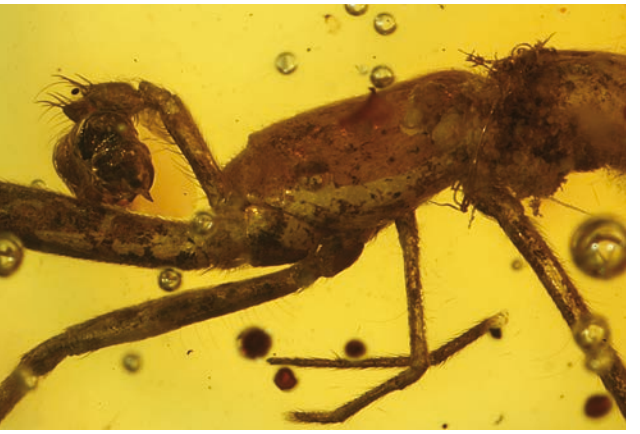


Fig. 22b: Eomiagrammopes semiapertus

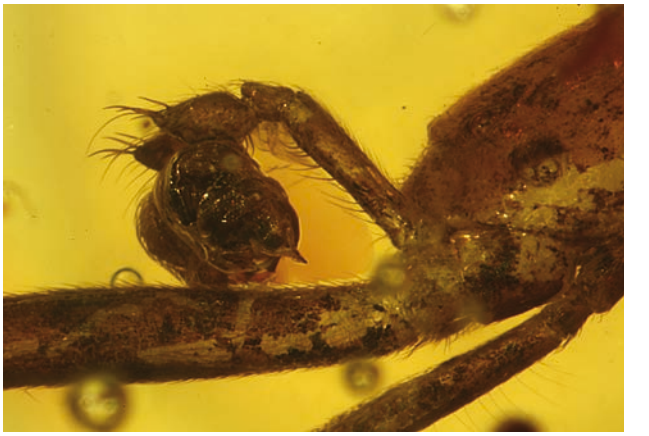


Fig. 22c: Eomiagrammopes semiapertus

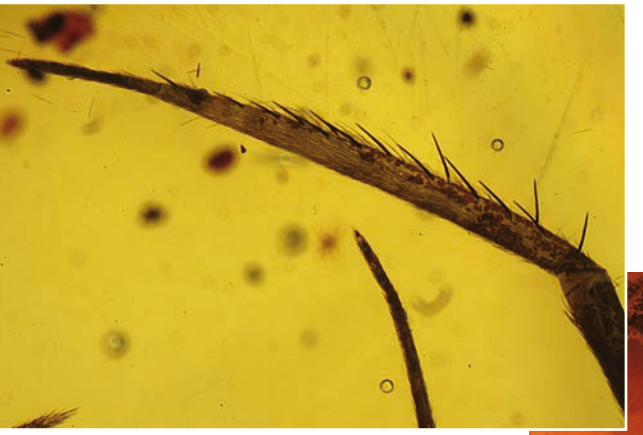


Fig. 22d: Eomiagrammopes semiapertus

Fig. 23a: Eomiagrammopes spinipes

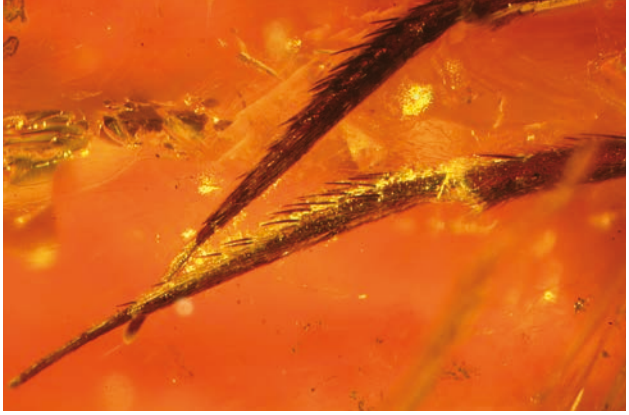


Fig. 23b: Eomiagrammopes spinipes

Fig. 24: Balticgnatha projectens

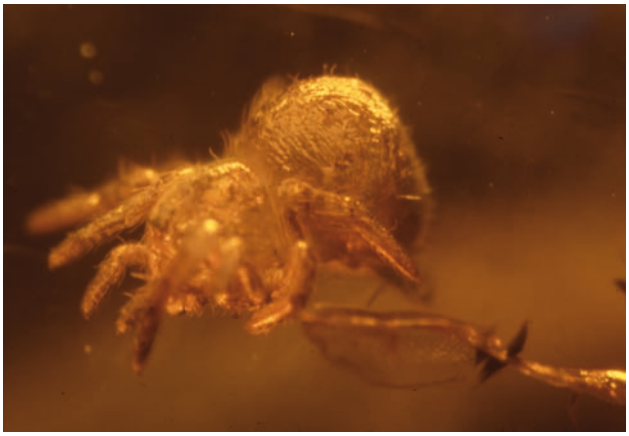


Fig. 25: Araneidae: ?Mangorini indet.

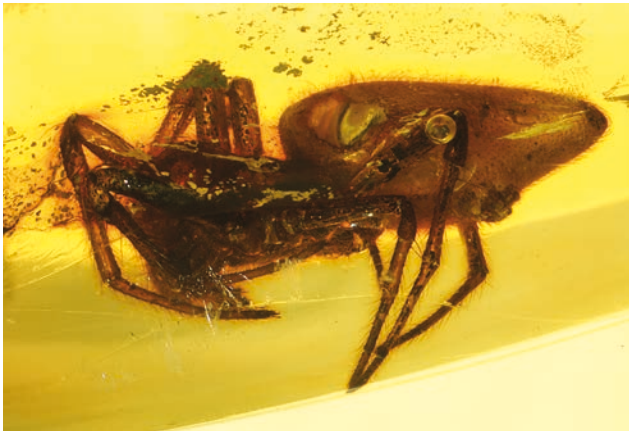


Fig. 26: Eochorizopes ?szeklinskiae

Fig. 27: Balticoroma damzeni

Fig. 28: Fossilanapis saltans

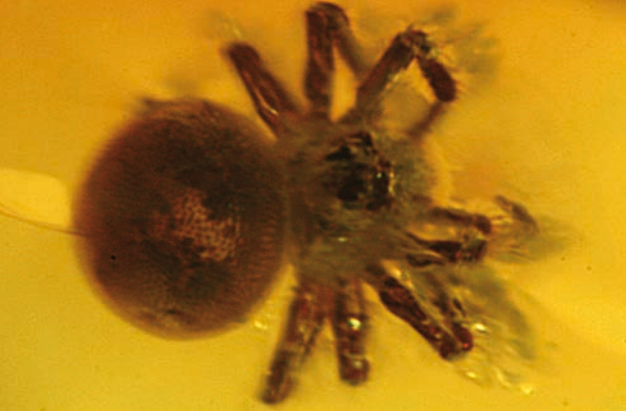


Fig. 29a: Fossilanapis sp. indet.

Fig. 29b: Fossilanapis sp. indet.

Fig. 30: Mysmena curvata

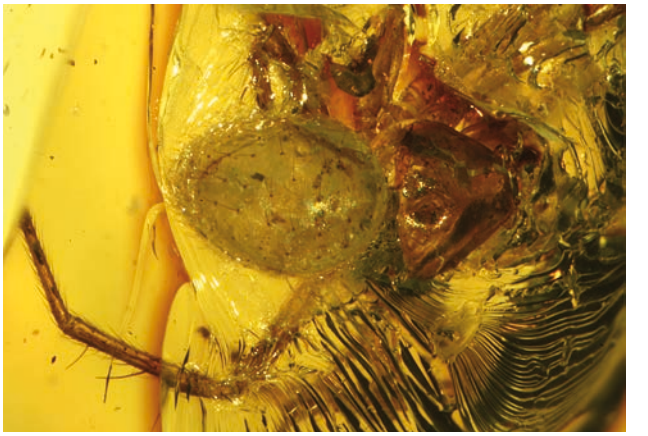


Fig. 31: Protomimetus longiclypeus

Fig. 32: ?Protomimetus breviclypeus

Fig. 33a: Ero (Palaeoero) ?longitarsus

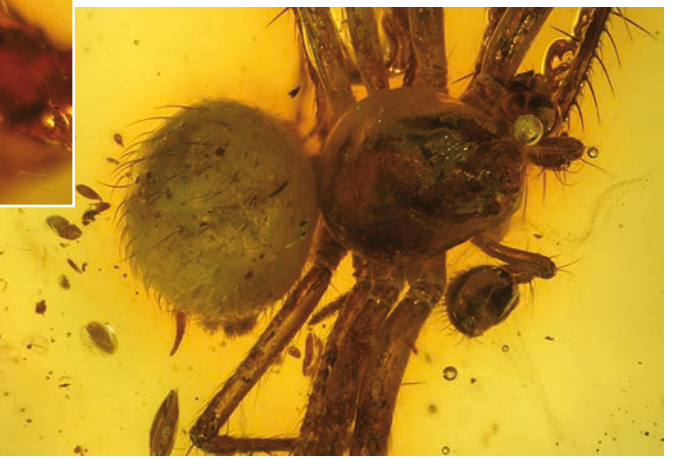


Fig. 33b: Ero (Palaeoero) ?longitarsus

Fig. 34a: ?Mimetus ?longipes

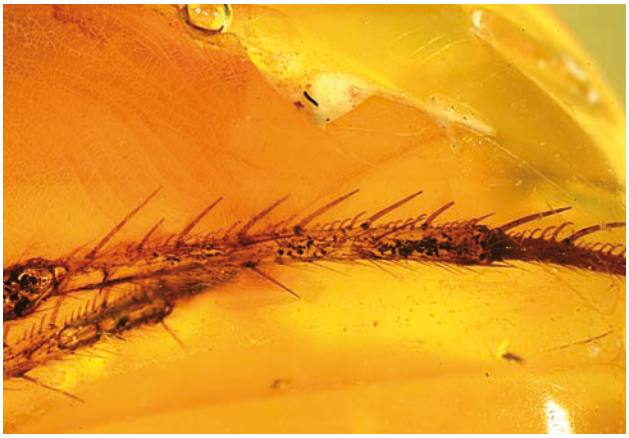


Fig. 34b: ?Mimetus ?longipes

Fig. 35a: Eodoter scutatus

Fig. 35b: Eodoter scutatus

Fig. 36a: Eodoter ?scutatus

Fig. 36b: Eodoter ?scutatus

Fig. 37: Eodoter ?scutatus

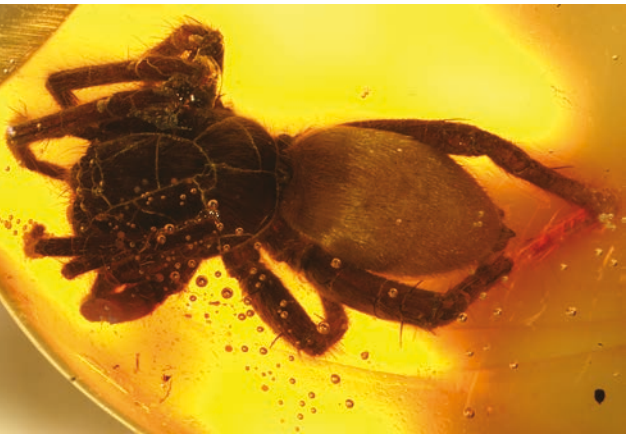


Fig. 38: Eodoter ?scutatus

Fig. 39a: Eodoter ?scutatus

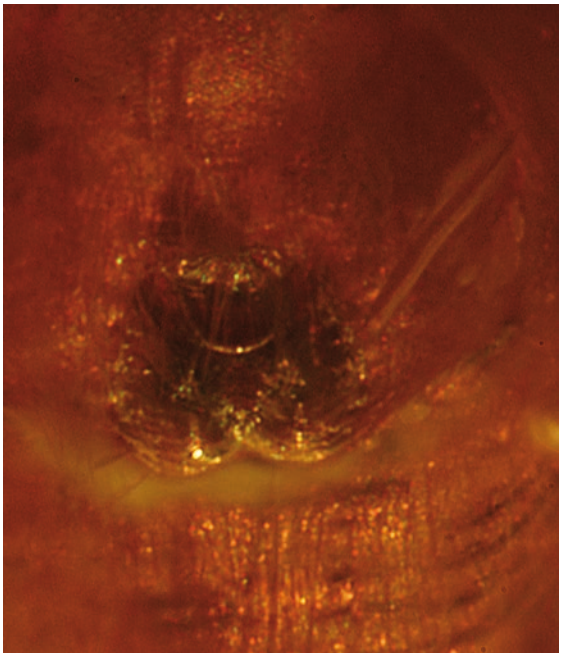


Fig. 39b: Eodoter ?scutatus

Fig. 40a: Eodoter tibialis

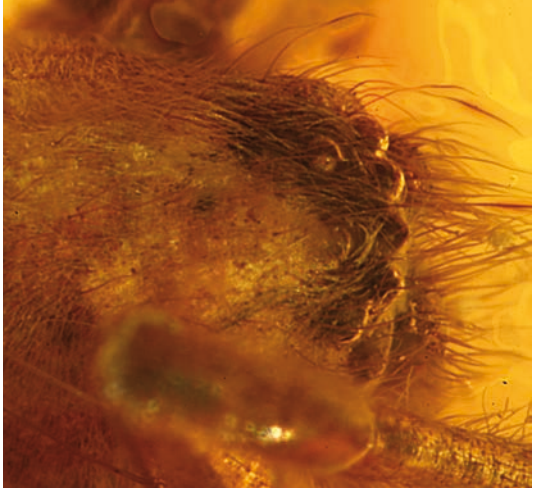


Fig. 40b: Eodoter tibialis

Fig. 41: Eognaphosops cryptoplanoides

Fig. 41b: Eognaphosops cryptoplanoides

Fig. 42a: Eomactator hamatus

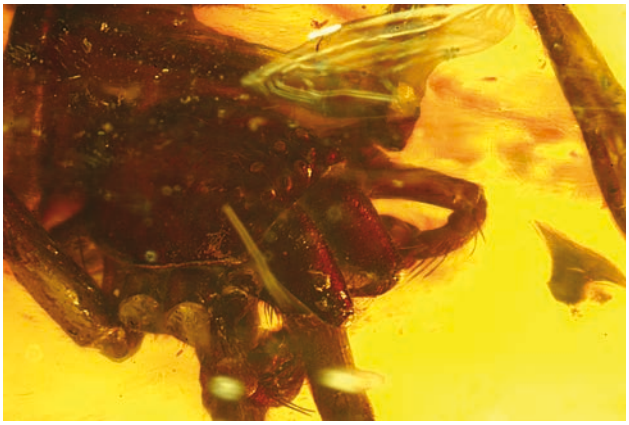


Fig. 42b: Eomactator hamatus

Fig. 43a: Eomactator hirsutipes

Fig. 43b: Eomactator hirsutipes

Fig. 43c: Eomactator hirsutipes

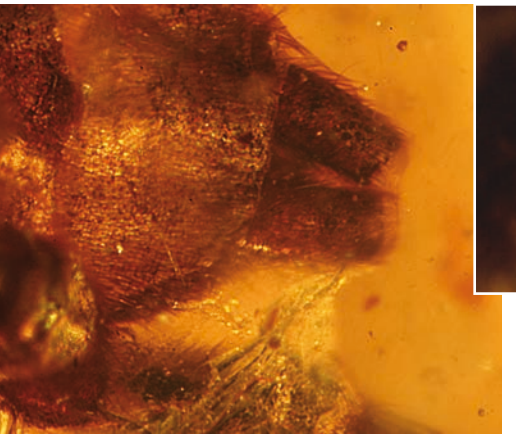


Fig. 44a: Eomactator sp. indet.

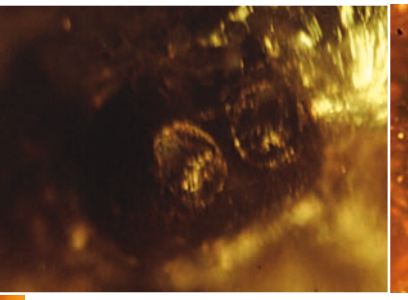


Fig. 44b: Eomactator sp. indet.

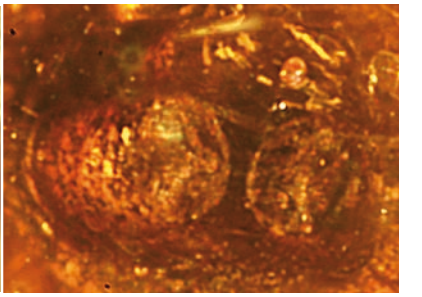


Fig. 44c: Eomactator sp. indet.

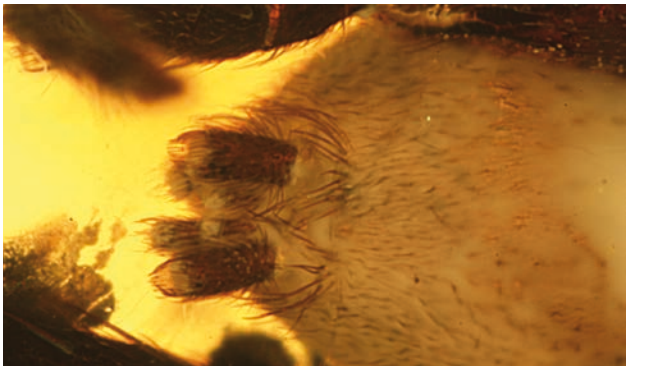


Fig. 45b: Zelotetis calefacta

Fig. 45a: Zelotetis calefacta

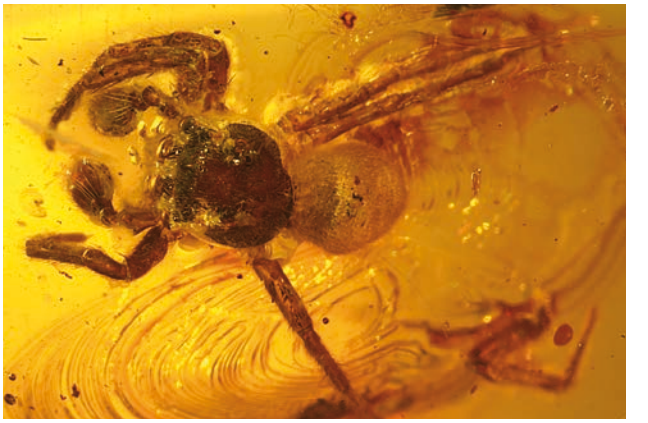


Fig. 46: Almolinus sp. indet.

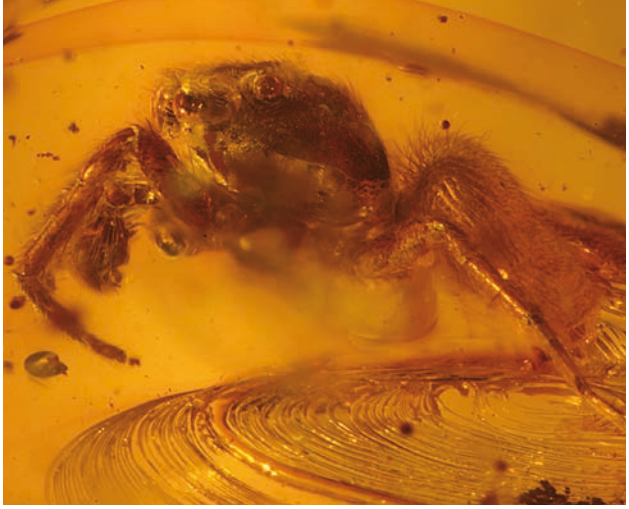


Fig. 46b: Almolinus sp. indet.

Fig. 46c: Almolinus sp. indet.

Fig. 47: Paralinus ?crosbyi (PETRUNKEVITCH)

Fig. 48a: Fictotama maculosa

Fig. 48b: Fictotama maculosa

Fig. 48c: Fictotama maculosa

Fig. 49: Episinus tibiaseta

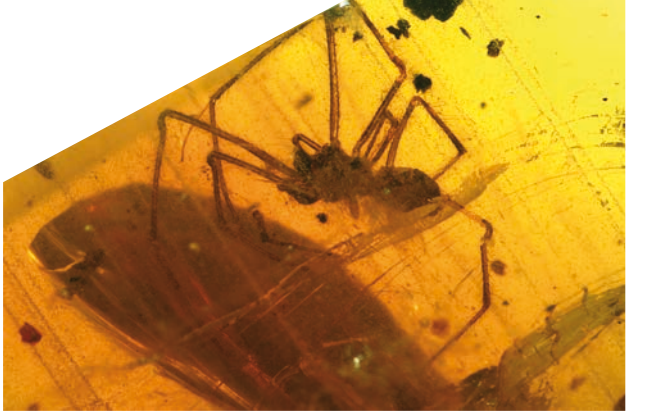


Fig. 50: Styposis pholcoides

Fig. 51a: Femurraptor dominicanus

Fig. 51b: Femurraptor dominicanus

Fig. 51c: Femurraptor dominicanus

Fig. 52a: Scopoides dominicanus

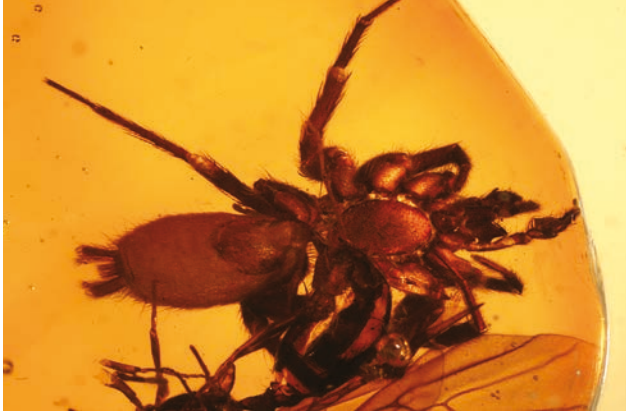


Fig. 52b: Scopoides dominicanus

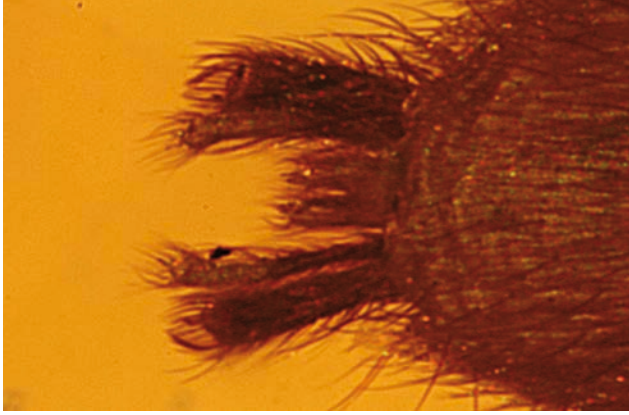


Fig. 52c: Scopoides dominicanus

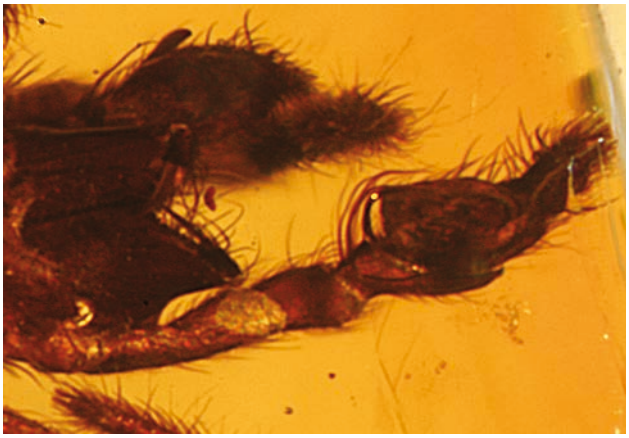


Fig. 52d: Scopoides dominicanus

Fig. 53a: Burmesiola cretacea

Fig. 53b: Burmesiola cretacea

Fig. 54a: Jerseyuloborus longisoma

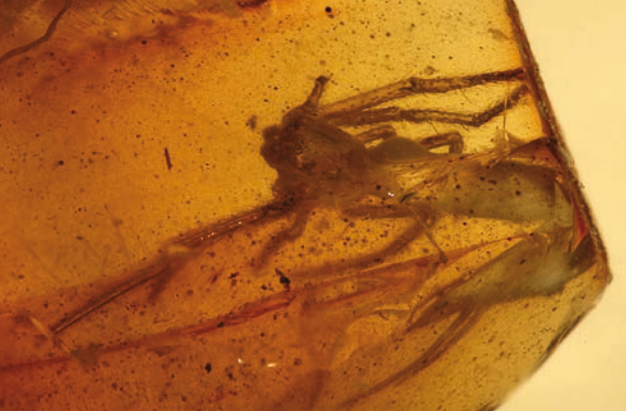


Fig. 54b: Jerseyuloborus longisoma

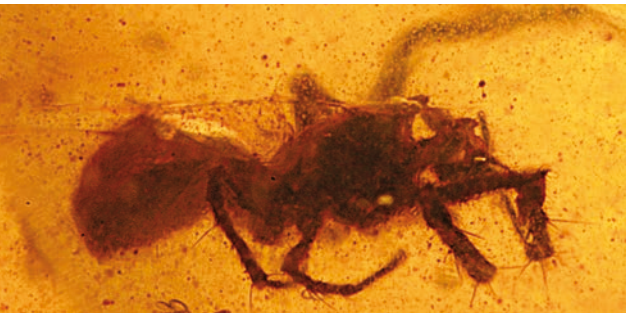


Fig. 55b: Praeterleptoneta tibialis

Fig. 56: Eoscaphiella ohlhoffi

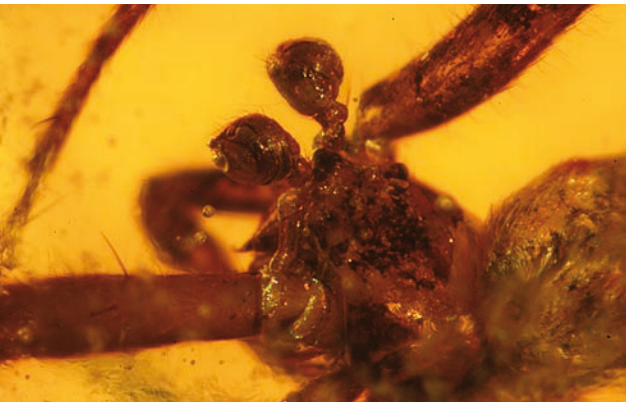


Fig. 55a: Praeterleptoneta tibialis

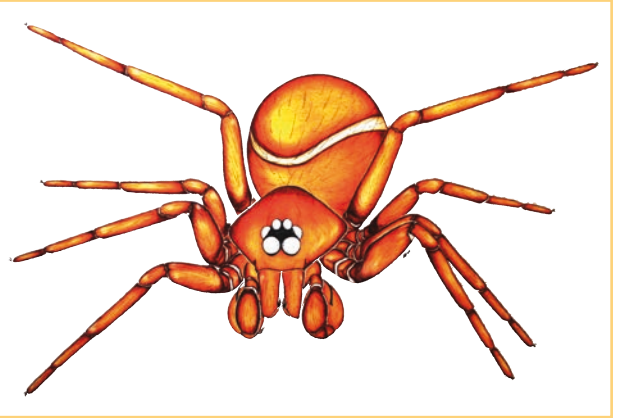


Fig. 57: Scaphiella penna PLATNICK & DUPERRE

Fig. 58b: Uloboridae indet.

Fig. 58a: Uloboridae indet.

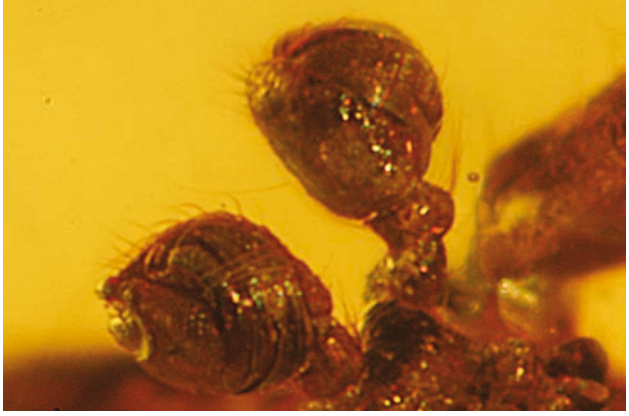


Fig. 58c: Uloboridae indet.

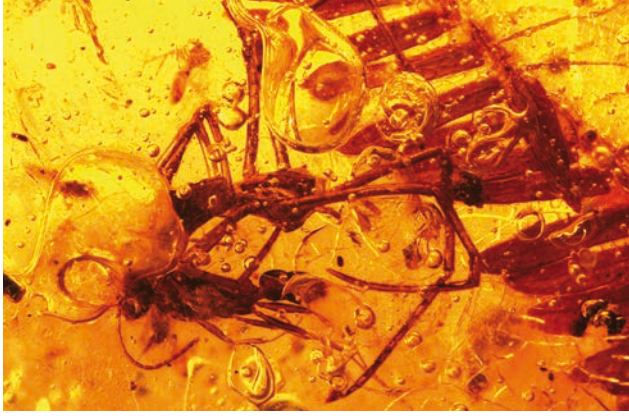


Fig. 59a: Deinopis ?madagascariensis LENZ

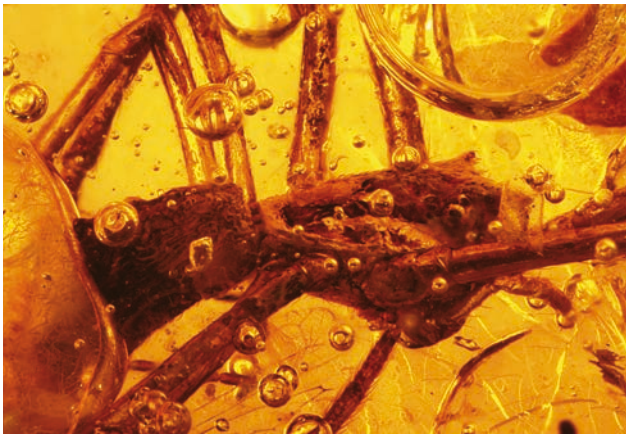


Fig. 59b: Deinopis ?madagascariensis LENZ

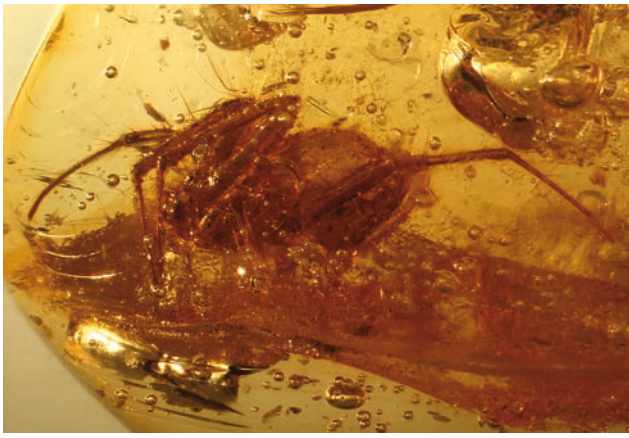


Fig. 60: Minutunguis silvestris

Fig. 61: Theridiosomatidae indet.

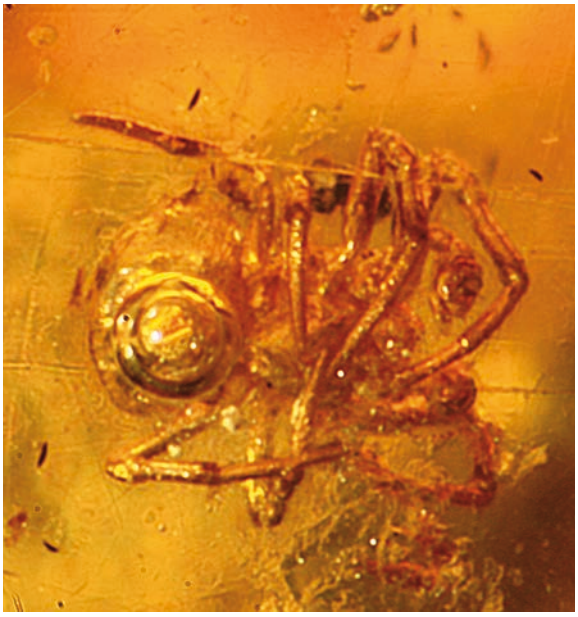


Fig. 62: Mysmena copalis

Fig. 63: Eidmanella pallida (EMERTON 1875)

Fig. 64: Argyrodes (Ariamnes) resina

Fig. 65a: Palpiraptor myrmarachnoides

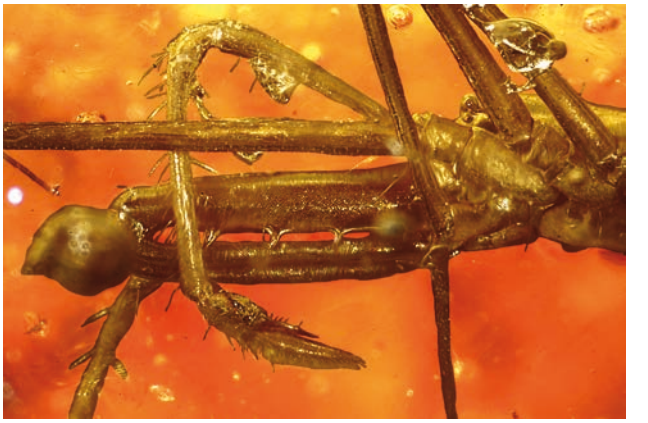


Fig. 65b: Palpiraptor myrmarachnoides

Fig. 66a: Palpiraptor myrmarachnoides

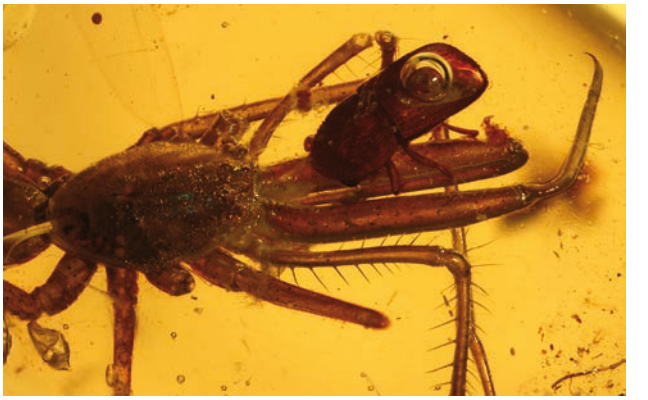


Fig. 66b: Palpiraptor myrmarachnoides

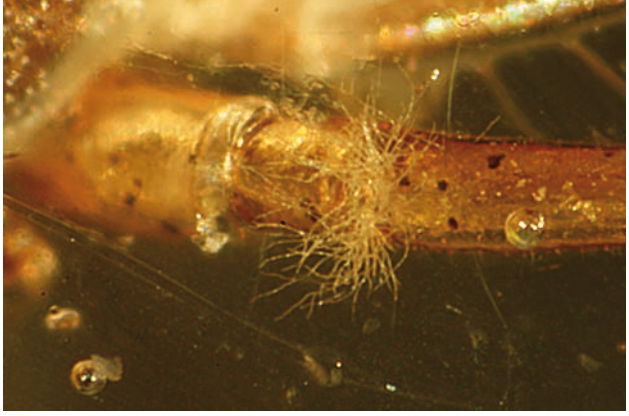


Fig. 66c: Palpiraptor myrmarachnoides

Fig. 67: Prodidomus madagascariensis

Fig. 68a: Pritha pallida (KULCZYNSKI)

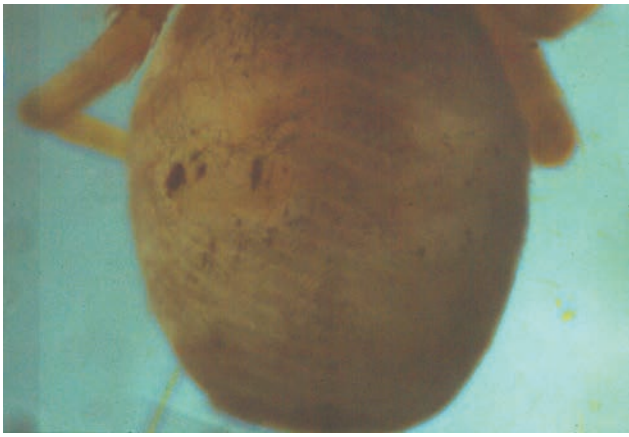


Fig. 68b: Pritha pallida (KULCZYNSKI)

Fig. 69: Ariadna canariensis WUNDERLICH

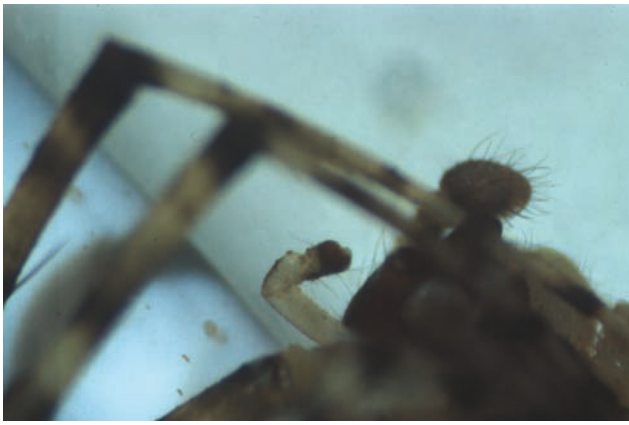


Fig. 70: Zygiella minima SCHMIDT

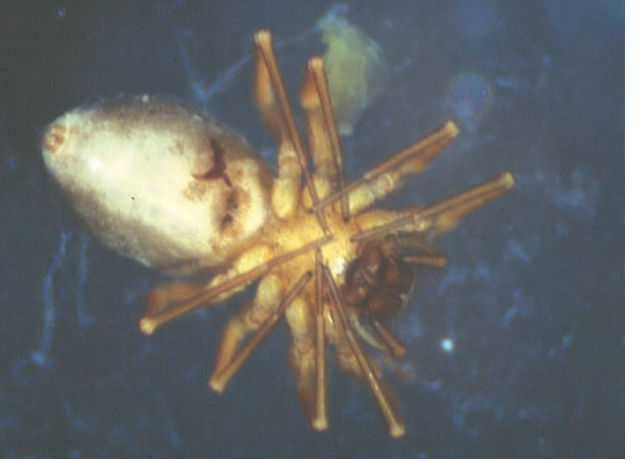


Fig. 71: Walckenaeria sp. indet.

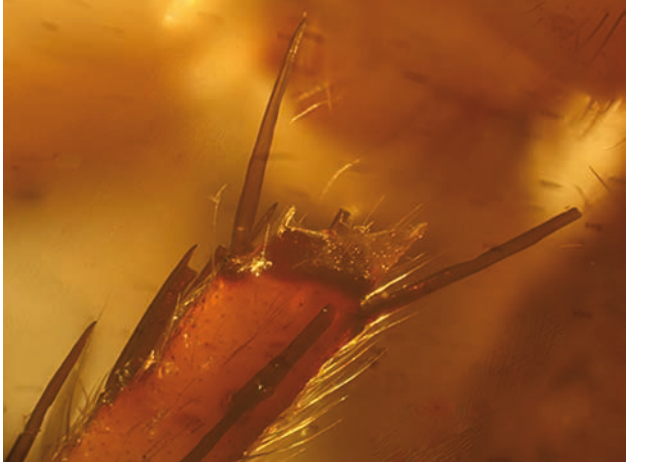


Fig. 72: Zoropsis spinimana (DUFOUR)

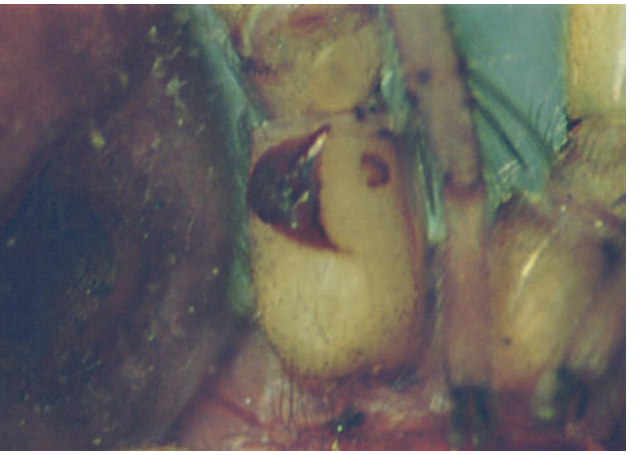


Fig. 73: Microclubiona marmorata (KOCH)

Fig. 74a: Cheiracanthium mildei KOCH

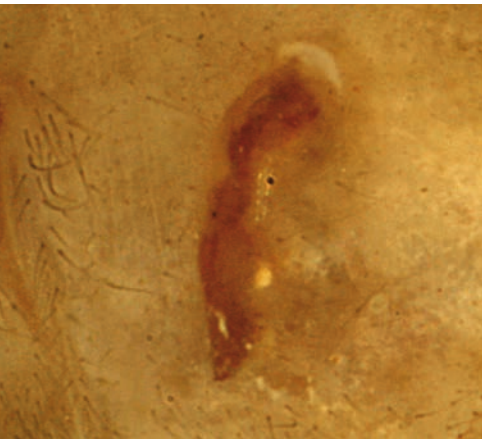


Fig. 74b: Cheiracanthium mildei KOCH

Fig. 75: Drassodes alexandrinus (O. PICKARD-CAMBRIDGE )

Fig. 76: Trachyzelotes lyonneti (AUDOUIN1826)

Fig. 77: Trachyzelotes lyonneti (AUDOUIN1826)

Fig. 78: Atypus piceus (SULZER 1776)

Fig. 79a: Pritha pallida (KULCZYNSKI 1897)

Fig. 79b: Pritha pallida (KULCZYNSKI 1897)

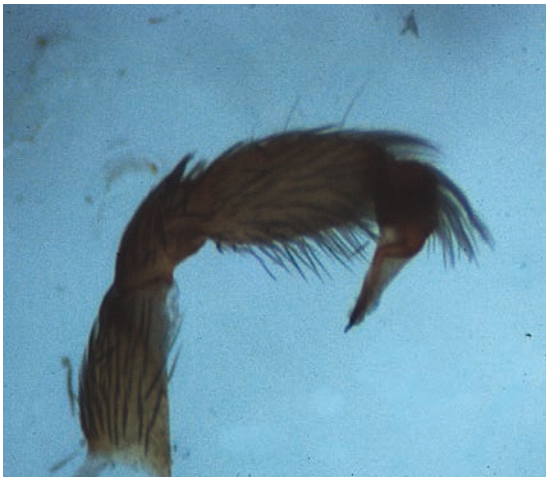


Fig. 79c: Pritha pallida (KULCZYNSKI 1897)

Fig. 80a: Pritha nana (SIMON 1868)

Fig. 80b: Pritha nana (SIMON 1868)

Fig. 81: Ariadna algarvensis

Fig. 82: Ariadna spinipes LUCAS 1846

Fig. 83: Meta (Metellina) segmentata (CLERCK 1757)

Fig. 84: Meta (Meta) menardi (LATREILLE 1804)

Fig. 85: Ruborrhidion musivum (SIMON 1873)

Fig. 86: Stajus truncatifrons
(O. PICKARD-CAMBRIDGE 1875)

Fig. 87: Nigma puella
(SIMON 1870)

Fig. 88: Mesiotelus grancanariensis WUNDERLICH 1992

Fig. 89a: Pistius undulatus KARSCH 1879

Fig. 89b: Pistius undulatus KARSCH 1879

Fig. 90: Setaphis murphyi

Fig. 92: Pterotricha sp.

Fig. 94: Aphantaulax seminigra
SIMON 1878

Fig. 91: Micaria romana
L. KOCH 1866

Fig. 93: Scotophaeus scutulatus
L. KOCH 1866

Fig. 95: Poecilochroa variana
(C. L. KOCH 1839)

## LEGENDS OF THE PHOTOS

**(1) Fossil spiders in European Eocene (Baltic, Bitterfeld, Rovno/Ukrainian) ambers:**

1) *Clostes* ?*priscus* MENGE 1869 (Hexathelidae: Macrothelinae), juv. in Baltic amber, body length 3.6 mm. Note the long posterior spinnerets. Coll. C. GRÖHN, GPIUH.

2a–b) *Balticatypus juvenis* n. gen. n. sp. (Atypidae), juv. in Baltic amber, body length 1.25 mm, F2242/BB/AR/CJW. a) Dorsal and b) ventral aspect of the spider. Note the powerful chelicerae and the prologated gnathocoxa (the left one is well observable, see fig. 7 p. 488).

3a–d) *Balticatypus beigeli* n. gen. n. sp. (Atypidae), juv. in Baltic amber, body length 1.6 mm, F2261/BB/AR/CJW (coll. A. BEIGEL BB-202). a) Dorsal, b) ventral, c) enlarged ventral, and d) anterior aspects of the spider.

4a–c) *Balticatypus spinosus* n. gen. n. sp. (Atypidae), juv. in Baltic amber, body length 1.6 mm, coll. F. EICHMANN, Ar 80. a) Dorsal, b) ventral and c) enlarged ventral aspects of the spider.

5a–d) *Harpactea longibulbus* n. sp. (Dysderidae), holotype ♂ in Baltic amber, body length 3.5 mm. a) Dorsal aspect, b) ventral-lateral aspect of the spider, c) eyes, d) the mite enlarged.

6) *Orchestina (Baltorchestina) imperialis* PETRUNKEVITCH 1863 (Oonopidae), ♂ in Baltic amber, body length 1.2 mm, F2238/ BB/AR/CJW, dorsal aspect of the spider.

7) *Orchestina (Baltorchestina) rectangulata* n. gen. n. sp. (Oonopidae), holotype ♂ in Baltic amber, body length 1.1 mm, dorsal aspect of the spider; coll. H. GRABENHORST Ar-173. Note the voluminous pedipalpi and the thickened posterior femora.

8a–b) *Scytodes* s. l. sp. indet. (Scytodidae), ?ad. ♀ in Baltic amber, body length 1.7 mm. a) Dorsal aspect of the spider; b) dorsal aspect of the prosoma. F2239/BB/ AR/CJW. The left tibia I is amputated beyond the middle and lost.

9a–b) *Scytodes* s. l. sp. indet. (Scytodidae), ?ad. ♀ in Baltic amber, dorsal aspect, body length 2.4 mm. Coll. A. BEIGEL BB-70. Note the very long and slender legs,

10a–b) Pholcidae indet., juv. in Baltic amber, body length 1.2 mm. a) Dorsal aspect of the spider, b) dorsal aspect of the body. F2128/ AR/CJW. Note the relatively long leg III.

11a–b) *Paraspermophora* sp. indet. (Pholcidae), ♀ in Baltic amber, body length 1.3 mm, F2144/BB/AR/CJW. a) Lateral aspect of the spider, b) enlarged body. Note the distinctly bulging genital area.

12a–b) *Paraspermophora* sp. indet. (Pholcidae), ♂ in Baltic amber, body length 1.2 mm, F2234/BB/AR/CJW. a) Lateral aspect of the spider, b) enlarged body. Note the large pedipalpi.

13a–b) *Oligoleptoneta cymbiospina* n. sp. (Leptonetidae), holotype ♂ in Baltic amber, F772/ BB/AR/CJW. a) Dorsal aspect of the spider, b) enlarged body.

14a–b) *Eoleptoneta multispinae* n. sp. (Leptonetidae), ♂ paratype in Baltic amber, body length 1.5 mm. a) Dorsal aspect of the spider, b) enlarged body.

15) *Eoleptoneta multispinae* n. sp. (Leptonetidae), holotype ♂ in Baltic amber, body length 1.5 mm, note the pedipalpi.

16a–b) *Eoleptoneta pseudoarticulata* n. sp. (Leptonetidae), holotype ♂ in Baltic amber, body length 1.3 mm. a) Dorsal aspect of the body, b) enlarged body.

17a–b) *Spatiator caulis* WUNDERLICH 2008 (Spatiatoridae), ♂ in Baltic amber, body length 3 mm, F2230/AR/CJW. a) Lateral aspect of the body; b) enlarged body

18) *Mizalia* sp. indet. (Oecobiidae: Mizaliinae), ♀ in Baltic amber, with an injured ant as a questionable prey, F1857/BB/AR/CJW, body length 3 mm, dorsal aspect of the spider.

19) *Mizalia* sp. indet. (Oecobiidae: Mizaliinae), ♂ in Baltic amber, F2264/BB/AR/CJW, body length 3 mm, dorsal aspect of the spider. Both pedipalpi are loose, probably by autotomy, and placed behind the spider; probably the spider has been the prey of an insect or a spider.

20a–b) *Mizalia* sp. indet. (Oecobiidae: Mizaliinae), ♂ in Baltic amber, F2265/BB/AR/CJW, body length 3 mm. a) Ventral aspect of the spider, b) ventral aspect of the pedipalpi.

21a–c) *Gerdiorum inflexum* WUNDERLICH 2004 (Hersiliidae), ♂ in Baltic amber, body length 4 mm. a) Lateral aspect of the spider, b) lateral aspect of the spinnerets with threads, c) pedipalpi.

22a–d) *Eomiagrammopes semiapertus* n. sp., holotype ♂ in Baltic amber, body length 5.3 mm. a) Lateral aspect of the spider, b-c) anterior part enlarged, d) distal articles of the left anterior leg, retrolateral aspect.

23a–b) *Eomiagrammopes spinipes* WUNDERLICH 2004, ♂ in Baltic amber, body length 5.2 mm, F2243/BB/AR/CJW. a) Lateral aspect of the spider, b) distal articles of the left anterior leg, retrolateral aspect.

24) *Balticgnatha projectens* n. gen. n. sp. (Tetragnathidae), holotype ♂ in Baltic amber, body length 3.9 mm, lateral aspect of the spider.

25) Araneidae: ?Mangorini indet., juv. in Baltic amber, body length 1.5 mm, F1893/BB/AR/CJW, lateral aspect of the spider. Note the high thoracal part.

26) *Eochorizopes* ?*szeklinskiae* WUNDERLICH 2008 (Araneidae), ♀ in Baltic amber, F2167/BB/AR/CJW, body length 5.3 mm, lateral aspect of the spider.

27) *Balticoroma damzeni* n. sp. (Comaromidae), holotype ♂ in Baltic amber, body length 1.2 mm, lateral aspect of the spider which is partly covered with a white emulsion.

28) *Fossilanapis saltans* WUNDERLICH 2004 (Anapidae), ♂ in Baltic amber, body length 0.85 mm, F2249/BB/AR/CJW, dorsal-lateral aspect of the spider.

29a–b) *Fossilanapis* sp. indet. (Anapidae), ♀ in Baltic amber from the Bitterfeld deposit, body length 0.7 mm, F2250/BB/AR/CJW. a) dorsal aspect, b) lateral aspect of the spider.

30) *Mysmena curvata* n. sp. (Mysmenidae), holotype ♂ in Baltic amber, body length 1.2 mm, dorsal aspect of the spider.

31) *Protomimetus longiclypeus* n. gen. n. sp. (Mimetidae: Protomimetinae), holotype ♂ in Baltic amber, body length 2 mm, dorsal aspect of the spider.

32) ?*Protomimetus breviclypeus* n. gen. n. sp. (Mimetidae: Protomimetinae), holotype ♂ in Baltic amber, body length ca. 2.4 mm, anterior-right aspect of the spider which is placed on an amber drop within the fossil resin.

33a–b) *Ero* (*Palaeoero*) ?*longitarsus* (WUNDERLICH 2004) (Mimetidae: Mimetinae), ♂ in Baltic amber, body length ca. 2.1 mm, F2023/BB/AR/CJW. a) Dorsal aspect of the spider, b) anterior aspect of the spider.

34a–b) ?*Mimetus* ?*longipes* WUNDERLICH 2004 (Mimetidae: Mimetinae), ♀ in Baltic amber, body length 5.5 mm, F2245/BB/AR/CJW. a) Lateral aspect of the spider, b) anterior legs.

35a–b) *Eodoter scutatus* n. sp. (Clubionidae: Eodotinae), holotype ♂ in Baltic amber, body length 4.2 mm. a) dorsal aspect, b) ventral aspect of the spider.

36a–b) *Eodoter* ?*scutatus* n. sp. (Clubionidae: Eodotinae), probably conspecific ♂ in Baltic amber, F2175/BB/AR/CJW, body length 4.2 mm. a) Dorsal aspect, b) anterior aspect of the spider.

37) *Eodoter* ?*scutatus* n. sp. (Clubionidae: Eodotinae), probably conspecific ♀ in Baltic amber, F2177/BB/AR/CJW, body length 4.6 mm. Ventral aspect of the spider.

38) *Eodoter* ?*scutatus* n. sp. (Clubionidae:Eodotinae), probably conspecific ♀ in Baltic amber, F2178/BB/AR/CJW, body length 4.5 mm. Dorsal aspect of the spider.

39a–b) *Eodoter* ?*scutatus* n. sp. (Clubionidae: Eodotinae), probably conspecific ♀ in Baltic amber, F2179/BB/AR/CJW, body length 4.2 mm. a) Ventral aspect of the spider, b) epigyne.

40a–b) *Eodoter tibialis* n. sp. (Clubionidae: Eodotinae), holotype ♂ in Baltic amber, body length 4 mm. a) Dorsal aspect of the spider, b) anterior part of the prosoma, dorsal aspect.

41a–b) *Eognaphosops cryptoplanoides* n. s. (Gnaphosidae: Eomactatorinae), holotype ♂ in Baltic amber, body length 4.2 mm. a) Dorsal aspect of the spider, b) dorsal aspect of the prosoma.

42a–b) *Eomactator hamatus* n. sp. (Gnaphosidae: Eomactatorinae), holotype ♂ in Baltic amber, body length 4.6 mm. a) Lateral aspect of the spider, b) prosoma.

43a–c) *Eomactator hirsutipes* n. sp. (Gnaphosidae: Eomactatorinae), holotype ♂ in Baltic amber in Baltic amber, body length 3 mm. a) Dorsal, b) ventral, c) anterior aspects of the spider.

44a–c) *Eomactator* sp. indet. (Gnaphosidae: Eomactatorinae), ♂ in Baltic amber, prosomal length 2.2 mm, SMF (F2162/BB/AR/CJW), a) ventral aspect of the anterior spinnerets, b-c) two ventral aspects of the spinnerets.

45a–b) *Zelotetis calefacta* n. sp. (Gnaphosidae: Eomactatorinae), holotype ♂ in Baltic amber, body length 3.5 mm. a) Dorsal aspect of the spider, b) ventral aspect of the spinnerets.

46a–c) *Almolinus* sp. indet. (Salticidae), ♂ in Baltic amber, body length 4 mm, F2255/BB/AR/CJW. a) Dorsal, b) lateral, c) anterior aspects of the spider.

47) *Paralinus* ?*crosbyi* PETRUNKEVITCH 1942 (Salticidae), ♂ in Baltic amber, body length 3.5 mm, F2254/BB/AR/CJW. Dorsal aspect of the spider.

**(2) Fossil spiders in Miocene Dominican amber:**

48a–c) *Fictotama maculosa* n. sp. (Hersiliidae), holotype ♂ in Dominican amber, body length 5 mm; a) dorsal aspect; b) ventral aspect of the spider; c) dorsal aspect of the spinnerets. Note the long spinules and the darkened healing event of the amputated right posterior spinneret.

49) *Episinus tibiaseta* n. sp. (Theridiidae), holotypus ♂ in Dominican amber, body length 2.65 mm, dorsal aspect of the spider.

50) *Styposis pholcoides* WUNDERLICH 1988 (Theridiidae), ♂ in Dominican amber, body length 1.2 mm, lateral aspect of the spider.

51a–c) *Femurraptor dominicanus* n. gen. n. sp. (Theridiidae), holotype ♂ in Dominican amber, body length 2 mm; a) dorsal aspect; b) ventral aspect of the spider; c) ventral aspect of the anterior part of the spider with the ventral bristles of the left femur I.

52a–d) *Scopoides dominicanus* n. sp. (Gnaphosidae), holotype ♂ in Dominican amber, body length 3 mm; a) dorsal aspect; b) ventral aspect of the spider; c) ventral aspect of the deformed spinnerets; d) ventral aspect of the anterior part of the prosoma and the pedipalpi.

**(3) Fossil spiders in Cretaceous ambers from Burma and New Jersey.**
(The last photo shows an extant spider).

53a–b) *Burmesiola cretacea* n. gen. n. sp. (Hersiliidae), holotype, juv. ?female in Burmese amber, body length 2.9 mm; a) dorsal aspect of the spider; b) prosoma enlarged.

54a–b) *Jerseyuloborus longisoma* n. gen. n. sp. (Uloboridae), holotype, juv. in amber from New Jersey, body length 1.8 mm, a) lateral and b) dorsal aspects of the spider.

55a–b) *Praeterleptoneta tibialis* n. sp. (Praeterleptonetidae), holotype ♂ in Burmese amber, body length 1.3 mm, a) dorsal and b) lateral aspects of the spider.

56) *Eoscaphiella ohlhoffi* n. gen. n. sp. (0nopidae), holotype ♂ in Burmese amber, body length 1.1 mm, ventral aspect of the spider. See the next photo which may be quite similar to a reconstruction of the fossil spider.

57) *Scaphiella penna* PLATNICK & DUPERRE 2010 (Oonopidae), extant, ♂ from Brazil, body length about 1 mm, anterior aspect of the spider. Taken from PLATNICK & DUPERRE (2010). See the previous photo.

**(4) Subrecent spiders in copal from Madagascar.**

58a–c) Uloboridae indet. ♂ in copal from Madagascar, F2219/AR/CJW, body length 2 mm. a) Dorsal aspect of the spider; b) prolateral aspect of the right leg I; c) dorsal aspect of the pedipalpi.

59a–b) *Deinopis* ?*madagascariensis* LENZ 1886 (Deinopidae), juv. in copal from Madagascar, body length 2.8 mm; a) lateral aspect of the spider with a wasp; b) lateral aspect of the spider, enlarged.

60) *Minutunguis silvestris* n. gen. n. sp. (Nephilidae), holotype ♂ in copal from Madagascar, body length 2.7 mm, lateral aspect of the spider which is not well preserved and partly hidden by fissures and bubbles.

61) Theridiosomatidae indet., ♂ in copal from Madagascar, F2222/CM/AR/CJW, body length 0.9 mm, anterior aspect of the spider.

62) *Mysmena copalis* n. sp. (Mysmenidae), holotype ♂ in copal from Madagascar, body length 0.5 mm, ventral aspect of the spider.

63) *Eidmanella pallida* (EMERTON 1875) (Nesticidae), ♂ in copal from Madagascar, lateral aspect of the spider above another, juvenile spider.

64) *Argyrodes* (*Ariamnes*) *resina* n. sp. (Theridiidae), holotype ♀ in copal from Madagascar, body length 19.3 mm, lateral aspect of the spider.

65a–b) *Palpiraptor myrmarachnoides* n. gen. n. sp. (Corinnidae), ♂, paratype F2225/AR/CJW, in copal from Madagascar, body length 5 mm; a) lateral aspect of the spider; b) anterior part of the spider with the powerful chelicerae, lateral aspect.

66a–c) *Palpiraptor myrmarachnoides* n. gen. n. sp. (Corinnidae), holotype ♂, F2224/AR/CJW, in copal from Madagascar, body length 5 mm. a) Dorsal aspect of the spider with a beetle above the left chelicera; b) dorsal aspect of the prosoma with a beetle; c) a fungus (hyphae) on the basal part of the right femur I.

67) *Prodidomus madagascariensis* n. sp. (Prodidomidae), holotype ♂ in copal from Madagascar, body length 3.7 mm, dorsal aspect of the spider.

**(5) Wound repair, healing events in fossil and extant spiders.**

68a–b) *Pritha pallida* (KULCZYNSKI 1897) (Filistatidae), extant, ♀ from the Azores, CJW, in alcohol, body length 2.3 mm; a) strongly darkened apical part of the left tibia IV, diameter 0.2 mm; b) dorsal aspect of the opisthosoma with strongly darkened patches (healings).

69) *Ariadna canariensis* WUNDERLICH 1995 (Segestriidae), juv. from the Canary Island Lanzarote, R138/AR/CJW, in alcohol, body length 7.5 mm. Healing event on the right coxa I which is 0.9 mm long.

70) *Zygiella minima* SCHMIDT 1968 (Zygiellidae/Araneidae), ♂ from the Canary Island La Gomera, R29/AR/CJW, in alcohol, amputation through the right pedipalpal tibia which is 0.25 mm long, with the stump closed by a dark mass.

71) *Walckenaeria* sp. indet. (Linyphiidae), ♀ from the Canary Island La Gomera, R30/AR/CJW, in alcohol, body length 3.2 mm, ventral aspect of the spider. Note the strongly darkened opisthosomal structures of an healing event.

72) *Zoropsis spinimana* (DUFOUR 1820) (Zoropsidae), ♀ from the Canary Island Tenerife, CJW, body length 13.2 mm, length of the left metatarsus IV 7.3 mm. The right metatarsus IV of the spider has been amputated 4 mm from its base, the apical part of the cuticula is irregularly and obliquely “cut” off, and closed by an almost smooth dark plug.

73) *Microclubiona marmorata* (L. KOCH 1866) (Clubionidae), ♀, Bavaria, coll. T. BLICK. The left coxa IV bears a larger (0.7 mm long) and a small strongly darkened area which may be the result of injuries and healing.

74a–b) *Cheiracanthium mildei* L. KOCH 1864 (Clubionidae), ♂, R128/AR/CJW; a) ventral aspect of the opisthosoma; b) enlarged structure. Note the darkened “healing structure” which is 0.7 mm wide.

75) *Drassodes alexandrinus* (O. PICKARD-CAMBRIDGE 1874) (Gnaphosidae), ♂ from the Canary Island Gran Canaria, R58/AR/CJW, in alcohol, body length 5 mm. Note the dark brown structure slightly basally-ventrally on the left femur I, size 0.25x0.35 mm, which may be an injury, and probably a healing event.

76) *Trachyzelotes lyonneti* (AUDOUIN1826) (Gnaphosidae), ♂ from the Azores, in alcohol. The left metatarsus I has been amputated near its end, the remaining part is 1.25 mm long (the right metatarsus I is 1.3 mm long). A strongly darkened – sclerotized? – structure exists at the tip of the article.

77) *Trachyzelotes lyonneti* (AUDOUIN 1826) (Gnaphosidae), ♂ from the Canary Island Gran Canaria, R 53/AR/CJW, in alcohol, amputation and healing event on the stump just beyond the right pedipalpal patella.

**(6) Extant European spiders.**
Some photos are taken from SAUER & WUNDERLICH: Die schönsten Spinnen Europas.

78) *Atypus piceus* (SULZER 1776) (Atypidae), juv., CJW, body length 6.5 mm, ventral aspect of the anterior part of the prosoma (in alcohol). See fig. 4 p. 487:

79a–c) *Pritha pallida* (KULCZYNSKI 1897) (Filistatidae), ♂, CJW, body length 2.3 mm; a) dorsal aspect of a living spider; note the patch of white opisthosomal hairs; b) dorsal aspect of the anterior part of the prosoma with furrows (in alcohol); c) retrolateral aspect of the right pedipalpus (in alcohol).

80a–b) *Pritha nana* (SIMON 1868) (Filistatidae), ♂, CJW, body length 2.5 mm, a) dorsal and b) lateral aspect of the spider in alcohol. Note the white "spot" of opisthosomal hairs.

81) *Ariadna algarvensis* n. sp. (Segestriidae), ♀, paratype, CJW, body length 10 mm, lateral aspect of the spider. Note the light lateral opisthosomal stripe, and the position of leg III which is directed foreward like in all members of this family, in contrast to other families in which is directed backward.

82) *Ariadna spinipes* LUCAS 1846 (Segestriidae), ♀, type specimen from Algeria. Taken from a drawing by LUCAS (1846: T. 1, fig. 7).

83) *Meta* (*Metellina*) *segmentata* (CLERCK 1757) (Tetragnathidae), ♀, dorsal aspect of the spider.

84) *Meta* (*Meta*) *menardi* (LATREILLE 1804) (Tetragnathidae), ♀, dorsal aspect of the spider.

85) *Ruborrhidion musivum* (SIMON 1873) (Theridiidae), ♂, CJW, body length 1.3 mm, lateral aspect of the spider (in alcohol).

86) *Stajus truncatifrons* (O. PICKARD-CAMBRIDGE 1875) (Linyphiidae), ♂, CJW, dorsal aspect of the spider (in alcohol).

87) *Nigma puella* (SIMON 1870) (Dictynidae), ♀, CJW, body length 2.7 mm, dorsal aspect of the spider.

88) *Mesiotelus grancanariensis* WUNDERLICH 1992 (Zoridae/Liocranidae), ♀, CJW, body length 5 mm, dorsal aspect of the spider (in alcohol).

89a–b) *Pistius undulatus* KARSCH 1879 (Thomisidae), ♂ from Italy, in alcohol, CJW, body lenth 3 mm, a) dorsal aspect of the spider and b) of the prosoma.

90) *Setaphis murphyi* n. sp. (Gnaphosidae), subad. ♂, paratype, CJW, body length 2.1 mm, dorsal aspect of the spider.

91) *Micaria romana* L. KOCH 1866 (Gnaphosidae), ♀, body length ca. 6.5 mm, dorsal aspect of the spider.

92) *Pterotricha* sp. (Gnaphosidae), ♀, dorsal aspect of the spider.

93) *Scotophaeus scutulatus* (L. KOCH 1866) (Gnaphosidae), ♂, body length 8 mm, dorsal aspect of the spider.

94) *Aphantaulax seminigra* SIMON 1878 (Gnaphosidae), ♀, body length ca. 7.5 mm, dorsal aspect of the spider.

95) *Poecilochroa variana* (C. L. KOCH 1839) (Gnaphosidae), ♀, body length ca. 8 mm, dorsal aspect of the spider.

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## HEUTIGE UND FOSSILE SPINNEN

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In 21 papers – about 600 pages, more than 150 coloured photos – extant and fossil spiders (Araneae) of various families are treated. Numerous new taxa are described, identification keys to the West-Palaearctic genera of the Mygalomorpha as well as to several families of the Araneomorpha are given, e.g., Clubionidae, Gnaphosidae, Prodidomidae, and Zoridae (Liocranidae). Moreover events of wound repair/healing in extant and fossil spiders are reported, reversals in various structures of spiders are discussed, and conclusions on the evolution of higher spider taxa based on fossil spiders are drawn. Besides spiders in the ideology of two Creationists are treated.

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