

City, Mo.; *M. dubium*, Kan.; *M. Walcottii*, Tex.; *M. Haji*, Kan.; *M. inconspicuum*, Kan.; *Tainoceras cavatum*, Tex.; *Domatoceras umbilicatum*, Kan.; *Asymptoceras Newtoni*, Kan.; *A. capax* (*Cryptoceras capax*, Meek and Worthen), Mo.; *Phacoceras Dumbli*, Tex.; *Ephippioceras divisum* (*Nautilus divisus* of White and St. John); *Endolobus gibbosus*, Tex. They are mostly large species, 4 to 6 inches in diameter.

7. **Worms.** — Fig. 1086, *Spirorbis carbonarius* Dn.; also, *S. arietinus* Dn.

8. **Limuloids.** — Fig. 1088, *Prestwichia Danae* = *Euproops Danae* of M. & W., Morris, Ill.; *P. longispina* Packard, Pittston, Pa.; *Dipeltis diplodiscus* Packard, Mazon Creek, Ill.; *Cyclus Americanus* Packard, Mazon Creek, Ill. (*Mem. Nat. Acad. Sc.*, iii., 14, 1888).

9. **Crustaceans.** — (a) *Trilobites.* — *Phillipsia Missouriensis*, *P. major*, *P. Cliftonensis* of Shumard, from the Upper Coal of Missouri; *P. (Griffithides) scitula* M. & W., Ill., Ind., and Neb.; *P. (Griff.) Sangamonensis* M. & W., Upper Coal, Ill.

(b) *Entomostracans.* — *Cythere Americana* Shum., Upper C., Mo.; *Leaia tricarinata* M. & W., Upper Coal-measures, Ill.; *Dithyrocaris carbonaria* M. & W., Ill.; *Ceratiocaris sinuata* M. & W., Ill.

(c) *Decapods.* — Fig. 1089, *Acanthotelson Stimpsoni* M. & W., Morris, Ill.; *A. Eveni* M. & W., Morris, Ill.; 1090, *Palæocaris typus* M. & W., Morris, Ill.; 1091, *Anthraco-palæmon gracilis* M. & W., Morris, Ill.; *A. Hillanus* Dn., N. Scotia.

10. **Myriapods.** — Mazon Creek, Ill., has afforded species of a dozen genera, including *Palæocampa anthrax* M. & W., *Acantherpestes major* M. & W., *Euphoberia armigera* M. & W., and 10 other species of the genus; *Anthracerpes typus* M. & W., *Eileticus anthracinus* Scudder, *Xylobius Mazonus* Sc., *Trichiulus villosus* Sc., and others of *Archiulus*, *Ilyodes*, etc. In Nova Scotia have been found *Xylobius sigillarie* Dn. (Fig. 1092), *X. fractus* Sc., *X. similis* Sc., *Archiulus Dawsoni* Sc., *A. Lyelli* Sc., *A. euphoberioides*, and others.

11. **Arachnids.** — Besides the Scorpion of Fig. 1094, Mazon Creek has afforded *Mazonia (Eoscorpis) Woodiana* M. & W., *Architarbus rotundatus* Sc., allied to the Phalangidæ, *Arthrolycosa antiqua* Harger (Fig. 1095), *Geraphrynus carbonarius* Sc., the long-tailed *Geralinura carbonaria* Sc. From Arkansas has come *Anthracomartus trilobitus* Sc.; from Rhode Island, another species of *Anthracomartus*; from Nova Scotia, *Mazonia Acadica* Sc.

12. **Insects.** — (a) *Neuropteroids.* — From Morris, Ill., *Miamia Bronsoni* D., *Hemeristia occidentalis* D., *Chrestotes Danae* Brgt., *C. lapidea* Sc., *Megathentomum pustulatum* Sc., *Genentomum validum* Sc., *Anthracothremma robusta* Sc., and others. From Pittston, Pa., species of *Dieconeura* and *Polyernus*.

(b) *Orthopteroids.* — Of the Cockroach group there have been found: at Mazon Creek, 4 species of *Mylacris*, 2 of *Promylacris*, 2 of *Paromylacris*, 1 of *Archimylacris*, 2 of *Eto-blattina*, 1 of *Progonoblattina*, and 1 of *Oryctoblattina*; in Pennsylvania, 6 of *Mylacris*, 2 of *Neomylacris*, 1 of *Archimylacris*, 3 of *Lithomylacris*, 1 of *Promylacris*, 1 of *Eto-blattina*, 1 of *Gerablattina*; at Cassville, W. Va., 6 of *Eto-blattina*, 15 of *Gerablattina*, 1 of *Anthracoblattina*, 3 of *Poroblattina*, and 1 of *Petrablattina*; at Richmond, Ohio, 17 of *Eto-blattina*, 3 of *Gerablattina*, and 2 of *Poroblattina*; near Providence, R. I., 8 of *Eto-blattina*, 2 of *Gerablattina*, and 1 of each *Mylacris* and *Microblattina*; and a few others in Missouri, Kansas, Arkansas, Nova Scotia, and Cape Breton. Orthopters of the *Protophasmid* type occur at several of the above localities.

Of Carboniferous Hemipteroid Insects, which are not uncommon in Europe, a species, *Phthanocoris occidentalis*, occurs near Kansas City, Mo. Of Coleopteroid Insects, no American species have yet been reported.

The above lists of fossil Myriapods, Arachnids, and Insects are from Mr. Scudder's publications and correspondence. See his Bulletin No. 31, *U. S. G. S.*, for a review of the subject up to 1886; also, Bulletin No. 71, 1891, for a full index by him to the known fossil