

PLATE XIV.

BORINGS OF SCOLYTIDAE.

*Drawn by A. D. Hopkins.*

✓ Fig. 1. *Phloeosinus squalidens*, in *Juniperus* or *Thuja*, from interglacial clays. Natural size; the outlines of the galleries on the right are slightly enlarged.

Fig. 2. Transverse section of 1, showing position of pith and indicating that the flattened condition is at least partially due to a more rapid growth of wood on one side than on the other.

Fig. 3. Galleries of *Phloeosinus punctatus* in *Chamaecyparis lawsoniana*.

Fig. 4, 4. Abnormal forms of nuptial chambers of *Phloeosinus dentatus* in *Thuja plicata*.

Fig. 5. Normal form of nuptial chamber of same in same.

Fig. 6, 6. Normal forms of nuptial chambers of *Phloeosinus punctatus* in *Juniperus virginiana*.

Fig. 7. Abnormal form of nuptial chamber of same in same.

Fig. 8. Normal form of nuptial chamber of *Phloeosinus cristatus* in *Sequoia*.

Fig. 9. Abnormal form of nuptial chamber of same in same.