- 2. In the mud from the bottom of lakes and pools. A small handful of this mud or of the confervoid vegetation on the bottom, if dried without squeezing, will retain the Diatomaceæ and Desmidieæ.
- 3. In the mud (dried) from the bottom and along the margins of streams in any locality. The muds from brackish and from fresh waters will differ in their contents.
- 4. In soil from the banks of streams. The surface and subsoils should both be collected.
- 5. In the soundings brought up from the bottom of the sea or lakes. These should be collected from the greatest possible depths. If an armature be used to the lead, it should be of soap rather than fatty matter, as being more readily removed from the organisms. The mud which adheres to anchors, to rocks, &c., below high-water-mark, as well as below low-water, should also be carefully gathered.
- 6. In bunches of damp moss from rocks, roofs of houses, trees, boat pumps, &c.
 - 7. In the deposits in the gutters and spouting of roofs of houses.
- 8. In the dust which at sea collects upon the sails or decks of vessels. When not in sufficient quantity to be scraped off, enough may be obtained for examination by rubbing a piece of soft clean paper over the surface affected.

Specimens of all these substances should be gathered, and, when moist, dried without squeezing. The quantity may vary from a few grains to an ounce, depending on the mode of transportation to be adopted. Every specimen, as collected, should have the date, locality, depth below the surface, collector, &c., marked immediately upon the envelope.

For further directions, and for information respecting nets, dredges, cabinets, &c., "Davies' Practical Naturalist's Guide," is recommended to the Student.

^{*} McLachlan and Stewart, Edinburgh.