

Ponds, springs, and marshes in the vicinity of Philadelphia, but especially the ditches which traverse the great meadows below the city, in the alluvial triangle called the Neck, between the Delaware River and the mouth of the Schuylkill River.

Ponds, marshes, etc., along the course of the Delaware River, both in Pennsylvania and New Jersey, from Philadelphia to the Delaware Water Gap.

Sphagnons bogs, pools, and ponds on the Pokono Mountain, Monroe County, and on Broad Mountain, Schuylkill County, Pennsylvania.

The lower part of the State of New Jersey, along the course of the Camden and Atlantic City Railway, and along the course of the Camden and Cape May Railway. Throughout this broad region materials were collected from many localities: ponds and pools, sphagnons bogs, cedar swamps, savannas, and cranberry lands. Also Lake Hattacawam, or Budd's Lake, on Schooley's Mountain, Morris County, New Jersey.

The vicinity of Noank, on the coast of Connecticut, and of Newport, Rhode Island.

Bridger Valley, in the southwestern corner of Wyoming Territory, and the Uinta Mountains to the height of 10,000 feet, in the same region.

Partridge Island, at the head of the Bay of Fundy, Nova Scotia.

Before entering in detail upon the special subjects of my studies, the Fresh-water Rhizopods, nearly all of which pertain to the orders of the Protoplasta and the Heliozoa, some remarks on the characters of the other orders of the class may not be out of place.

The **Radiolaria** (*radiolus*, a little ray) are the subjects of an elaborate and magnificent work by Dr. Ernst Haeckel, Professor of Natural History, in Jena.* They are exclusively marine Rhizopods, comprising many wonderfully beautiful forms, living and swimming in vast multitudes in the superficial waters of the ocean. They are generally minute, and are the most complex in their constitution of any of the Rhizopods. They are commonly furnished with a siliceous or flinty skeleton, which, in variety of form, symmetry, and intricacy of construction, is a marvel of beauty. The material of the skeleton is derived from the exceedingly small proportion

* Die Radiolarien (Rhizopoda Radiolaria), Berlin, 1852.