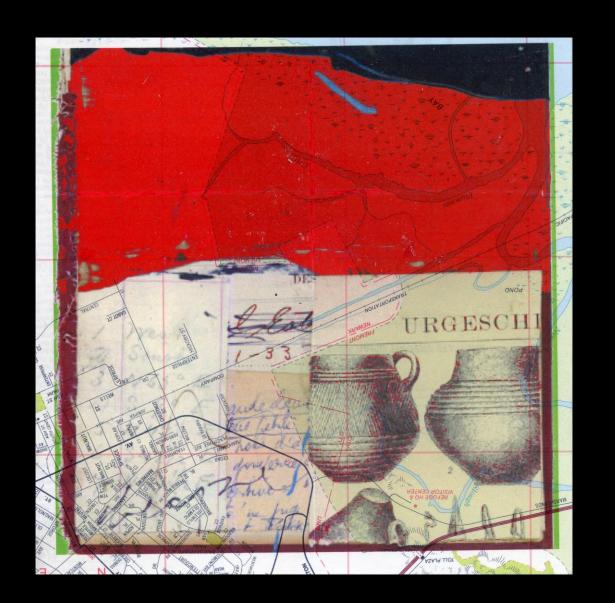


Mixed Media on Paper

Edition \_\_\_of 100

## Memetic (landscapes)

P.F.FOLEY



titude of terms. When such stru beginning in branching, the margins takes up her the Leaf and Venation. When branching has barely beginn, Roots.—Tra roots existing in the flo the may be dentate; or still the local then parted, and difurther, inci. vided.

In leaves where the family the cone of ar that the leaf-branches are distinct the leaf-branches are distinct to be particle, we use the family compound. Where the leaf is said to be palmately compound, where they arise at considerable intervals, it is primately compound.

Surfaces.—In plants consisting of cell-masses the external cells are always more or less modified by contact with the surrounding medium. They usually contain less outcoplasm.

and quite commonly have thicker walls; this is especially trace of terrestrial plants, although it may be seen in aquatics to a less degree. This outer layer is known as the epidermis. It is frequently smooth externally, the outer walls of the contiguous cells forming an even surface. In other cases the cells may project more or less, or they may develop short points which project above the surface and make it rough. These projections may be so extended as to form a hairy surface.

Lit frequency backens that a mass of cells in or beneath the epidermis grows out into a sharp, broad-based point, a prickle, as in the roses and raspberries, whose stams are

c- | vena) which name the bundles usually

n branching has barely began, Robts.—Tra foots exist only in the flower ate; when the branches the fernworts. In the next produces hairs which have the function, ture, of roots. Some of the algae have h proach roots in structure, and possibly ar the foreshadowings of them.



Fig. 8. Illustrations of roots: I. Root and roo oil plant; II. Roots of melon; III. Root of matic section of the tip of the root of the s showing the root-caps in several layers.

less well marked. The boundary layer is not as well marked as is usually the case absence of leaves and the rarity of shootvorthy. The development of a mass of in advance of the growing tip, is perhaps teristic structure of the root.

Physiology of Larger Plants.—Enoug the mode of life of single-celled or few larger plants, where there are masses of logical processes are somewhat more com absorbed by the cells in contact with (or nearly all) external cells absorb wa terrestrial plants the external root-cells Cells in contact w soluti the active agent Some food-matter is cell which absorbs it from more is absorbed by neighboring cells. absorb food matter from the surrounding

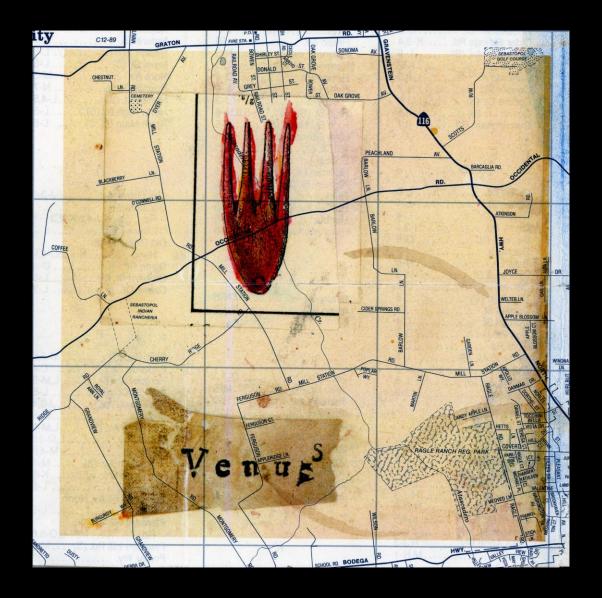




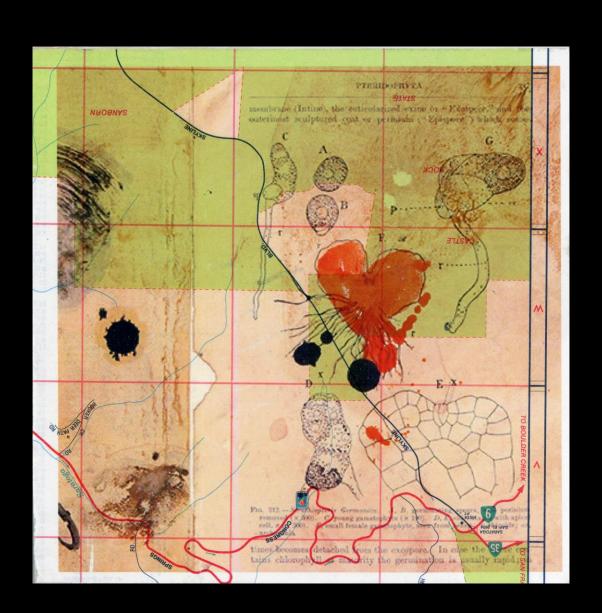
prickly. Pfickles are to be distinguished from thorns, the former of which a callied thalfy superficial in structure while the stem-branches, pointed and usually leafless stunted

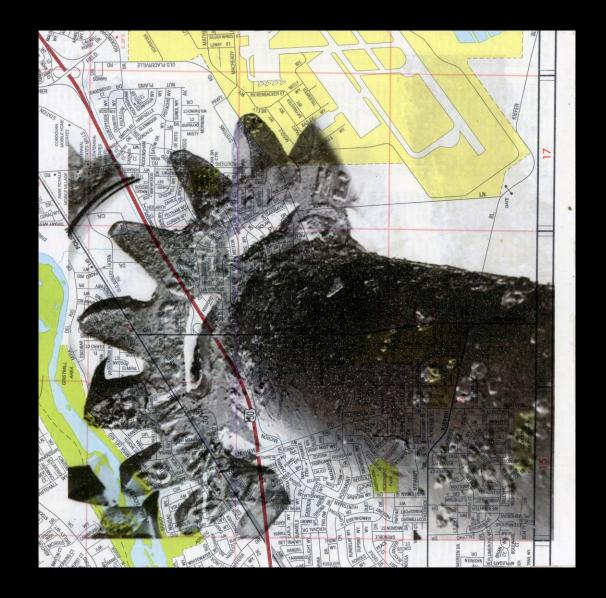
Shoots.—The stem with its leaves is the shoot. It is clearly



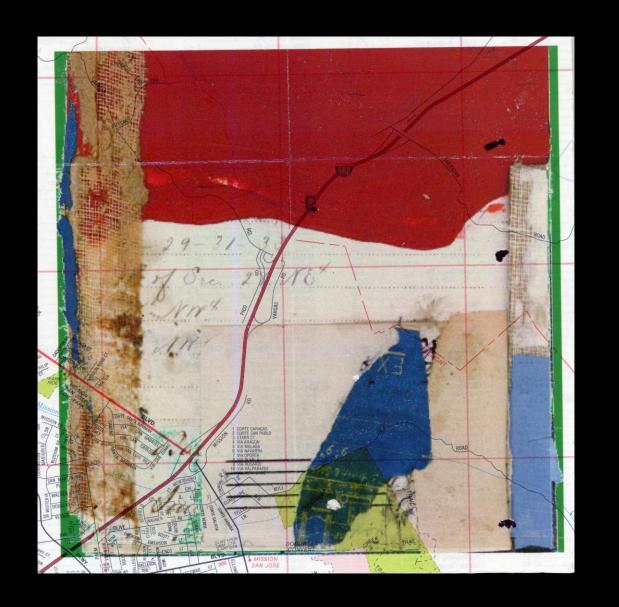


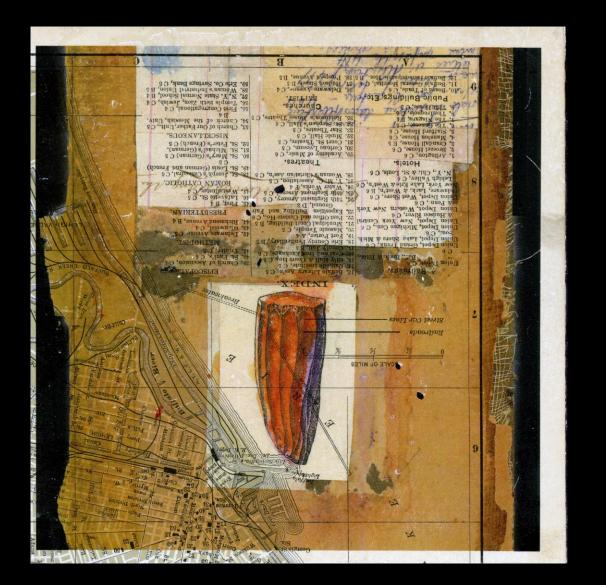




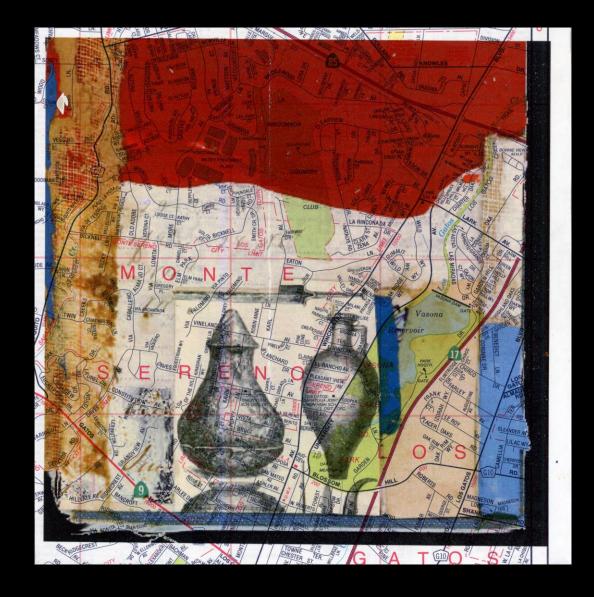












tered the monastery of Dalon. D. cird. 1915. See B. de Born, | jority have fixed abodes, and have made sein Leben und seine Werke, herausgegeben v. A. Stimming (1879); B. de Born, poésies complètes (publ. by A. Thomas, neither priests nor temples, nor do the 1889); Diez, Leber and Werke der Trochadours (2d. ed. 1882); Borneo was in 1892 divided into t Clédat, Du rôle hist ve de Bertrand de Born (1878). A. R. MARSH

rankfort-on-the-Main May 18, 1786; studied at Berlin and Heidelberg; adopted the Profestant laith in 1817; edited the liberal Wage and Schwingen; published celebrated Day 18 tschwingen; published in 1826 his Jean Paul. After 1830 he lived celebrated Denkrede ent of the Allgemeine Zeitung, and in Paris, was corre is Briefe aus Poris and other writsthetical subjects are eloquent and ngularly delicate critical sense, but less of political feeling. Sämmtbiche 2-63). D. in Paris, Feb. 13, 1837 See Behrmann (1841), and Gutzow (1840), and

orneil bor'nal', Guiraur, de: Provençal poet; re by Daute (de Vulg. Eloq. ii. 2) one of the three great ibadours Arnaut Daniel and Bertran de Born being the other two. Dante also calls him the poet of unrightness, "rechisting." The precise dates of his career are not known, at it certainly fell between 1175 and circ. 1220. He was chiefly remarkable as a poet because of his James Brooke, obtained control of Sa belief in the art of poetry and in the chivalric stime. See F. Diez, Leben and Werke der Troubaan, 1829; 2d ed. Leipzig, 1882); also the Proe poet from the Cheltenham MS, 1910, printed es langues romanes (3° série, v. 275).

Such that A R. MARSH! (called by the natives Pulo-Kulamantin): an alay Archipelago; extends from lat. 7° 1 N. from lon. 108° 50' to 119° 2' E. (see map . 6-E). Its length is 807 miles, and it is estwide. The area of the island proper is 283,les; with the small islands adjacent, 284,500 sq Next to New Guinea (308,000 sq. miles), it is the largest island on the globe. The interior is traversed by chains of mountains not yet fully explored by Europeans. Vear the northern extremity of the island is a peak called Khibalu, which rises 13,680 feet above the sea. The mariparts of the island are mostly marshes or low plains vered with dense forests. It is probable that a large portion of the interior consists of fertile valleys and plains

the useful arts. .

Borneo was in 1892 divided into th ments: (1) British North Borneo, the island from the Padas river on the west river on the east coast. Area, 31,106 sq line of over 900 miles. Pop. 200,000, con ginal tribes inland and Moh on the coast. The interior is moun surface is covered by jungles. The ter jurisdiction of the North Borneo Comr based on the Indian code and the Mohar Government issues its own copper and is in American dollars. Tobacco is plant and there is a flourishing timber-trade. in the extreme north. (2) Brunei, a na der British protection, on the west coast Borneo to the Barram river. Area, 8,10 50,000. It is similar to the territory to town, Brunei or Borneo. (3) Sarawak, a ing the west coast from Brunei to Cape D inland to the central mountain chain. sembles North Borneo. Coal exists in 1841. He was succeeded by his nephew sou Brooke, in 1868. (4) Dutch West B southwestern part of the island S, of S about Jon. 117° E, with all of the basin of Area, 59,700 sq. miles. | Pop. 414,000. East Borneo, including the parts of th Borneo and E. of Brunei, Sarawak. Area, 143,500 sq. miles, or more than a gether. Pop. 750,000. The chief towns are Pontianak (west coast, on the Kapus jermassin (South Borneo, on the Barno

History.—Borneo was discovered in gnese who formed a settlement at Band The Dutch, who first visited the islan reaty of commerce with the Sultan o They erected a fort and a factory at Tat other at Pontianak in 1778. The first Brit at the northeast angle in 1756. Sir Jame ited the island in 1838. The island has to geographers had any