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## AMONG THE CRYPTOGAMS.

By Prof. A. H. McKay.

PAPER VI -USES OF LICHENS.

Continued.

which have made them popular in MEDICINE.

them used as nutriments, demulcents, third the Dutch name. The first was febrifuges, astringents, tonics, purg tives or anthelmintics. Some of these rich purple color; the second as a properties have undoubtedly existed crimson, or carmine powder, and the only in imagination, as for instance third in small cakes of an indigo-blue the "pulvis antibyssus," the celebrated color. There is reason to believe "pulvis centra rabiem," or "mad dog that the dye mentioned in Ezekiel, powder," long regarded as a most effi- XXVII, 7.—"Blue and purple from cacious remedy for Hydrophobia. This the isles of Elishah was that which covwas nothing else than the powdered eredthem," and the celebrated "purple earlike lichen fronds often found grow- of Amorgas" were Orchill. Since the ingover moss in the woods, and which discovery of the aniline colors, the was called from this belief peltigera manufacture of dyes from lichens is grand property, if they did not cure, The annual value of a species of Recthey did not kill. The lichens also fur- cella, or Orchella, as it was called, and nish us with many

CHEMICAL COMPOUNDS useful in the arts and sciences, such at from \$300,000 to \$400,000. Some for instance as utraric acid, gallic or of these grew in England itself, but tannic acid, lichenine, innuline, and tropical species, from Africa, Asia and especially such organic acids as orcel- South America, and from the Azores lic, lecanoric, gyrosphoric, evernic, and Canaries had been found etc., which although themselves color- more productive. The prices varied less, by the joint action of air, water from \$100 to \$1000, to \$2000 and and ammonia produce valuable Ac

PURPLE LIVES.

The coloring properties of these compounds made some lichens only a few years ago of very great economical importance. In their commercial form their coloring matters constitut: Many lichens contain principles the pigment known as Orchill, Cudbear, Litmus. These have all the same origin, the first being the En-In this department we find some of glish, the second the Scotch and the manufactured as a liquid or paste, of These powders had one not of the importance it formerly was. other dye lichens imported into England, was estimated a few years ago sometimes nearly to \$5000 per ton. In