

- Pecten papyraceus*, 386; *P. quinquecostatus*, 247.
Pegmatite, variety of granite, 562.
Pentacrinus Briareus, lls., 320.
Pentamerus Knightii, 438; *P. levius*, 488.
Pentland hills, Mr. MacLaren on, 181.
Peperino, volcanic tuff, 474.
Pepys, Mr., cited, 41.
Permian flora, distinct from that of coal, 353.
.... formation of Thuringia, 356.
.... group described, 350.
Perna Mulleti, lower greensand, 258.
Petrification of fossil wood, 39.
.... process of, 48.
Phillipi, Dr., on fossil shells near Naples, 118.
.... on Hesse Cassel beds, 186.
.... on marine shells in caves of Sicily, 160.
.... on tertiary shells of Sicily, 156.
Phillips, Prof. cited, 308, 318.
.... on cleavage, 603.
.... on terminology, 102.
.... Mr. W., on kaolin of China, 11.
Phacops caudatus, Silurian, 436.
Phascolotherium Bucklandi, jaw of, 312.
Phasianella Heddingtonensis, coral-rag, 39.
Phlebopteris contigua, oolite, 314.
Pholidomyia fidicula, oolite, 315.
Phonolite, or clinkstone, 472.
Phorus extensus, London clay, 218.
Phosphate of lime, 251.
Phragmoceras ventricosum, Ludlow, 434.
Phryganea indusiva of 201.
.... (recent), larva of, 201.
Phyllade or clay-slate, 590.
Physa Bristolii, Purbeck, 295.
.... *columellaris*, *P. hypnorum* (recent), 29.
Pictou, Nova Scotia, calamites near, 818.
Pilla, M., on age of Carrara marble, 612.
Pisidium amnicum, 183.
Pisolitic limestone of France, 295.
Pitchstone, or retinite, 474.
Placodus gigas, teeth of, 335.
Plagiostoma giganteum, 318; *P. Hopperi*, *P. spinosum*, 247.
Planitz, tripoli of, 26.
Planorbis discus, 209; *P. euomphalus*, 29, 211.
Pias Newydd, rock altered by dike near, 480.
Plastic clays, 219.
Playfair, cited, 45, 92.
.... on faults, 62.
.... on Huttonian theory of stratification, 60.
Plectroodus mirabilis, 482.
Plesiosaurus dolichodiscus, 323.
Pleurodictyon problematicum, 425.
Pleurotoma attenuata, 216; *P. rotata*, 31.
Pleurotomaria carinata, *P. flammigera*, 406.
Pleurotomaria granulata, *P. ornata*, 315.
Plieninger, Professor, on triassic mammifer, 340.
Pliocene, newer, period, 126.
.... newer, strata, 152.
.... strata in Sicily, 155.
.... older, in United States, 180.
.... strata, 167.
.... period, volcanic rocks of, 520, 530.
.... term defined, 116.
Piomb du Cantal, described, 552.
Plumbago in Massachusetts, 596.
Plutonic rocks, 7, 573.
.... of carbonaceous period, 580.
.... of oolite and lls., 579.
.... recent and pliocene, 574.
.... of Silurian period, 581.
.... age of, how tested, 578.
Plutonic and sedimentary rocks, diagram of, 576.
Pluvial action, effects of, 279.
Podocarya, fruit of, oolite, 318.
Poggendorf, cited, 594.
Poikilitic formation, 350.
.... term explained, 332.
Polycaetina profunda, Permian, 408.
Pomel, M., on mammalia of Auvergne, 208, 421.
Ponza Islands in Mediterranean, 480, 605.
Porphyritic granite, 563.
Porphyry, 467, 468.
Portland, Isle of, fossil forest in, 297.
Portland stone, 800.
Portlock, Col., on Tyrone Silurian rocks, 448.
Posidonia minuta, triassic, 834.
Posidonomyia?, Richmond, U. S., 831.
.... *Beaferi*, carboniferous, 410.
Post-pliocene formations, 116.
.... period, volcano rocks, 523.
Potsdam sandstone at Keesville, 451.
.... sandstone, tracks on, 452.
.... sandstone in Canada, 446.
Pottsville, coal-seams near, 888.
.... footprints of reptile near, 400.
Pozzolana, 36.
Pratt, Mr., on ammonites, 304.
.... on extinct quadrupeds of Isle of Wight, 209.
Precipitation of mineral matter, 41.
Predazzo, altered rocks at, 581.
Prestwich, Mr., cited, 69.
.... on Weald denudation, 281.
.... on English eocene strata, 208, 212, 216, 219.
.... on coal-measures of Colebrook Dale, 62, 355.
Prevost, M. C., on Paris basin, 223, 224, 225.
Productus ovalis, *P. horridus*, 352.
Productus antiquatus, *P. semireticulatus*, 405.
Progressive development, theory of, 453.
Protogine, or talcose granite, 564.
Psammodus porosus, tooth of, 409.
Psaronites in Germany and France, 357.
Pseudocrinites bifasciatus, 436.
Pterichthys, old red, 419.
Pterodactylus crassirostris, 302.
Pterophyllum comptum, 314.
Pterygotus Anglicus, 415; *P. problematicus*, 416.
Ptychodus decurrens, tooth of, 249.
Puggaard, Mr., on Mön drift, 295.
Pumice, 469.
Pupa muscorum, 124; *P. tridens*, 80.
Purbeck beds, 291, 293.
Purpuroidea nodulata, oolite, 308.
Puy de Tartaret, 548.
Puy do Pariou, 551.
Puzzuoli, elevation and depression of land at, 525.
.... post-pliocene strata at, 117.
Pygopterus mandibularis, scale of, 854.
Pyrenees, cretaceous rocks of, 599.
.... curvatures of strata in, 58.
.... granite of, 593.
.... nummulitic formation of, 280.
Pyrocene, or augite, 465.
Pyrula reticulata, coralline crag, 172.
QUADRUMANA, fossil, 219.
Quarrington Hill, basaltic dike near, 520.
Quartz, 581.
Quartzite, or quartz-rock, 689.
RADIOLITES foliaceus, *R. radiosus*, 253.
.... *Mortont*, chalk, 248.
Radnorshire, stratified trap of, 558.
Rain-prints, fossil in coal-shale, 384.
Rainsay, Prof. A. C., on denudation, 69.
.... on granite in Arran, 584.
.... on section near Bristol, 102.
.... on Welsh glaciers, 137.
.... on foliation of crystalline schists, 600.
.... on Caradoc sandstone, 438.
Rastrites peregrinus, 442.
Recent strata defined, 117.
.... near Naples, 117.
Redfield, Mr., on glacial fauna in America, 189.
.... on fossil fish, 349.
Red sandstone, origin of, 342.
Red Sea and Mediterranean, distinct species in, 100.
.... saltiness of, 345.
Reptile in old red sandstone of Morayshire, 412.
Reptiles, carboniferous, 396, 897.
.... of lls., 322.