success of the various excursions organised. The uncertainty of public affairs, moreover, has caused the French papers to give the most meagre reports of the proceedings ; indeed only the titles of a number of communications are given without any attempt at a report.

On Friday M. Fremy was elected president for 1878 by a full house, and almost unanimously. The place of the next meeting will be Paris in all probability. Consequently an opportunity will be afforded to influential members of the French Institute to give a new impulse to the organisation of the French Association, and to remodel it more fully according to the pattern of its English sister.

A number of members of the British Association arriver at Havre at the beginning of the session, including Dr. Huggins, Prof. Sylvester, Messrs. Glaisher, sen. and jun. It has been regretted that no formal delegation from France was sent to Plymouth, as contemplated, and that no direct request was sent to Mr. Bell to bring over his wonderful telephone.

A committee was appointed at Clermont-Ferrand to report on the position of French meteorology. A report was drawn up pointing out the necessity of memorialising the French Government to establish a special meteorological institute. The report was not adopted by the Meteorological Section, and a new report will be drawn up, and was to be proposed on Monday. But the discussion will offer little interest, owing to the absence of the leading French meteorologists.
The mathematical and astronomical section has been well attended under the presidency of Professors Catalon (Liége University) and Sylvester, the former being acting president and the second honorary.

The Geological Society of Normandy has organised an exhibition of local geology in the old Palais de Justice, which may be considered as a model of care, order, and completeness. A number of large oil pictures have been executed to show the different stages of the evolution of life before the appearance of man on earth, from the age of coal-measures.
M. Gabriel de Mortillet, general secretary to the section of anthropology of the International Exhibition, has delivered a lecture on the organisation of that section. The Trocadero Palace will be devoted entirely to "Histoire de l'Homme." One of the aisles will be devoted to the ethnography of living savage nations, and will be considered as affording a foir representation of primordial ages. The other aisle will be eutirely devoted to the history of the arts, which are supposed to represent civilisation in its highest state of development. The central part of the building is devoted to anthropological science, viz., European anthropology, prehistoric anthropology, demography, comparative linguistic, \&c. Exhibitors of aill nations will be admitted, and all the expenses of the exhibition will be supported by the French administration. The space allotted to foreigners for this exceptional exhibition will not be reckoned as part of the total space granted to their own nation in the Champ de Mars. M. Gabriel de Mortillet, Chateau de Saint Germain, Seine-etOise, will answer any letters addressed to him, and give practical directions to intending exhibitors.

The scheme, of which we gave details some time since, has been conceived by M. Krantz himself, who was desirous to see the science of man utilised as an introduction to the exhibition of the works of man.

## FNGLISH NAMES OF WILD FLOWERS AND PLANTS ${ }^{1}$

ITHET yeare ago I was piloting a fanous botanist from the east of England among the fields and lanes round Taunton, when he asked me the name of a plant which he did not at the moment recognise. I answered that it was the gipsy-wort, and received a prompt rebuke. "This is the third time," he said, "that I have inquired the name of a flower, and you have answered me in English. The Latin names are universal, the English at best are local. It is to be wished that all English names of plants could be forgotten, and their scientific names become popularised instead." Unquestionably a foolish utterance, it was of great service to myself, for it set me to consider the real value of these names which my pedantic guest despised, and from that time to this I have never encountered the popular name of any English wild flower without questioning it closely as to its etymological history and meaning, and noting the
2 Lecture by Rev. W. Tuckwell before the Somersetshire Archrological a:d Satural History Society
passages in our literature where it occurs. It would be a great pleasure to me to believe that the knowledge gained by these inquiries, put together to the best of my power, could interest you to-night as much as it has interested myself.
It is no new thing to infer from the terms in use at the beginning of a nation's history the arts and customs of the nation using them. Thus the fact that in all or nearly all the Aryan languages the words for the Supreme Being, for the king, for brother and sister, for ploughing, grinding, building, closely resemble one another, is admitted to show that our common forefathers in times when they were still one people, and had not yet scattered into India, Persia, Europe, had the beginnings of religion and government, possessed the family life, knew the simple arts which are most needed for the comfort of home life. Let us see what light will be thrown upon the habits of our Teutonic forefathers if we apply their method of investigation to the popular names of plants.

The following words are common to all the Teutonic languages; must have been known, that is, to the race from which we ourselves, with the Germans, Danes, Swedes, and Norwegians, are descended, on their first settlement in Europe, and before they broke up into sub-civided nations. The first I will take is birch, the rind of which must, we find, have been used for boat-building and for roofing houses; for boatbuilding, since the word bark, from the same root as birch, stands for ship in English, Dutch, Icelandic, Danish ; for roofing houses, since the Old English beorgan and the German bergen, also from the same root, mean to cover, protect, or shelter. From this simple word, then, we gather that our ancestors possessed the arts of building boats and of roofing or thatching houses. Houses could not be built withont timber; and we find the word tree in almost every Aryan language standing for three things-for a tree, for timber, and for an oak, extending the use of oak wood for building purposes back to the first formation in Asia of our mother language, and presenting us with the additional facts that our European ancestors built of oak timber the houses which they roofed with birch. In hazel a fresh fact lies buried. It is in all Germanic dialects the instrumental form of has, command or behest, a hazel stick having been used, as Jacob Grimm informs us, in the earliest times as a sceptre or baton to keep order among slaves and cattle. Without dwelling on the fact that the old word helsian, to foretell, indicates the use of the hazel rod for purposes of divination, we have the additional probability revealed in a single word that our remote ancestors possessed slaves and cattle. In hazethorn, common to Swedish, German, and English, we have testimony to the use of a haw, heeg, hedge, or fence, "honouring the holy bounds of property," and consequently to the division and appropriation of land, in the earliest Teutonic time. My next word makes some demand upon your etymological credulity. Without tracing particulars, I will ask you to believe that the Sanskrit Kshi, to dwell, passes through various forms in one direction to the English home, in another to the word heath; now meaning the plant which grows wild on open land, standing originally for the land itself. "My foot," says Rob Roy, "is on my native heath;" and the same idea was enshrined in the same word to the first Teuton settlers. In the forest he fought his enemies, hunted his prey, hewed timber for his fences, and peeled bark for his roofs; his home was in the open land, or heath, from which, again, when ages had passed away and Christianity possessed the towns, he still worshipped his father's gods upon his father's heath, and gained, as Trench thinks, his ancient name of heathen. A sixth word lifts him higher than all the rest. The word beech, in Gothic, Old-High-German, modern German, Norse, Danish, Dutch, English, is identical with book, the Runic tablets of our ancestors having been carved upon this wood. In sloe, the wild plum, we have the root of slay, its tough wood having been used for bludgeons; dogreood is dagger-wood, from dag, to strike; from ash, whose wood was therefore used for spear-shafts, came the Old English asc, a spear; sedge is allied to sacg, a sharp small iron sword. And let us observe that while all these plants, bearing purely Teutonic names, extend far into Northern Asia, trees which stop short at a more southern limit-the elm, chestuut, holly, sycamore, plum, pear, peach, cherry-all have Latin names, showing that the Teuton squatters came from a colder country than that in which they are supposed to have settled near the Roman Provincials on the Lower Rhine. The knowledge that wheat, barley, oats, corn, rye, are all Teutonic words, completes the historical picture given by the first list of names. They show us a race of men coming from a northern to a southern region,
dwelling in timber houses, roofed and thatched, launching boats upon the rivers, possessing cattle and slaves, recognising the rights of property and the sacredness of home, fighting with cudgels, swords, and spears, familiar with cereal agriculture, in some way not ignorant of letters. All these facts, just hinted at here, but challenging minute investigation, we owe to a dozen common names of English plants, whose Latin equivalents teach and commemorate nothing of any national interest to ourselves.
These names, and a few more, are as old as the English language ; but from the Conquest to the sixteenth century botanical inquiry ceased in England, and the rest of our popular names are little more than three hundred years old. Most of these come to us from the Greek and Latin; but some of them are so corrupted as not to be easily recognisable. Any scholar will detect in acacia the Greek word for guilelessness; in the amaranth, with which Milton's worshipping archangels wreathed their brows, the Greek for unfading; in the perizuinkle the pervinca used to bind about the head; in lettuce, the meaning of milky; in geranium, the descriptive name crane's bill. In the plane he will see the Platanus of the poets; in the rose, the Rhodon of Homer and the Rosa of Virgil; in the sycamore, the wild fig of the Bible, transferred in medireval miracle plays to the tree which now bears the name; in the vine, the oinon and zinum, whose Sanskrit root is still present in our words twine and twist. He will understand that the basil which poor simple Isabel planted in the pot which held her murdered lover's head was the rescal plant, used perhaps of old in some royal bath or unguent; that the ancelicir, which now flavours our soups, and was once a specific against the plague, was given to mankind by angels; that the belladonna was applied as a cosmetic to make ladies beautiful for ever ; that the cyclamen, which still grows wild in Devonshire, owes its name to its prominent circular tuber. He will not so readily discover that the tansy of our cottage gardens is the Greek athanasia, immortality, administered to Ganymede that he might become f.t for his life in heaven; that the common milfoil yarrow is the hiera, or holy herb, pledged to heal all herbs with its fragrant leaves; that nasturtium means nosetwister, from its pungent smell; that our Quantock whortle-berry is a corruption of myrtillus, myrtle.berry; that eglantine is aczlenta, the prickly rose, or sweet-briar ; that the lerb Bennett or avens, is the benedicla, blessed herb, kept in houses to prevent the entrance of the devil ; that the $/$ izp of the dog-rose is a form of the Greek and Latin words which people afflicted with sore throats know as jujuthes; that liguorice is an Anglicism of the Greek Glycyrriza, sweet-root; that the larch is from the Latin lar, a house, in consequence of its use in building ; that lavender, from the Latin lavare, to wash, was in the twelfth century Scotch and northern English for zeasherwoman, because then as now its sweet spikes were laid amongst fresh linen; that the ser-vace-tree is the Latin cerevisium, beer, its leaves having been used to flavour ale before the virtues of the hop were known; that the little syainancy-voort was the ancient remedy for the disease Kynanche or dogchoker, which we know in its modern sound as quisesy; that the mushroom is the muscarius or fly-bine, because a particular agaricus, pulverised and mixed with milk, was used in Southern Europe as we now use the poison called "Keating's Insect Powder." Least of all will our scholar be quick to admit that the narcissus owes nothing to the love-sick youth over whom Ovid sung and Bacon moralised, but is connected with the Greek narkodes, sluggish, a derivative from narke, the torpedo, itself sprung from the Sanskrit nark, hell; cited by Sophocles (Qd., Col., 682), as crowning the goddesses of Hades ; gathered by Proserpine before her wedding tour into the same dark region, because its heavy odour (for by it the ancients meant the hyacinth) blunts the nerves and makes men sleepy and torpid. I can find comparatively few names which we have borrowed from the French. Dandelion is, of course, the lion's tooth; why, botanists are not agreed. Mignonette is applied by us to a very different plant from that which bears the name in France. Woodruffe, known to travellers in Germany fas flavouring the pleasant drink called Maitrank, takes its last syllable from roue, a wheel, its verticillate leaves being set like a wheel or rowell on the stone. Pansy is pensée, thought, from its significance in the language of flowers: "There's pansy," says Ophelia, "that's for thoughts." Gilliflower is girofiée, from caryophyllam, a clove, a name originally given to the carnation, but now transferred to the wall-flower. Thitsan is toute-saine, the oil in its leaves having made it a remedy for wounds. Most curious of all is Apricot, from abricot, which at one time I contentedly referred to the Latin apricus, sunny, ripening as it does on sumny walls. It is, in fact, traceable to the Latin prccoqua, early, the fruit
being supposed by the Romans to be an early peach. The Arabs took the Latin name and twisted it into al burquq; the Spaniards altered its Moorish name into albaricoque; the Italians reproduced it as albicocco, the French as abricot, and wa get it next in England, curiously enough, as apricock, so spelt in Shakspeare's time, and finally as apricot.
Many curious bits of myth and history reveal themselves as we excavate down to these old meanings. The picony, or healingplant, commemorates the Homeric god Pæon, the first physician of the gods, who tended the bellowing Ares when smarting from the spear of Diomed. The centaury is the plant with which the centaur Chiron salved the wound inflicted by the poisoned arrow of Hercules. The antrose, or wormwood, is the immortal food which Venus gave to Fneas, and Jupiter to Psyche ; the Sanskrit amrtía which Kehama and Kailyal quaff in Southey's splendid poem. The ancmone, or wind-flower, sprang from the tears wept by Venus over the body of Adonis, as the rose sprang from his blood-

The daphne, syringa, and andromeda tell their own tales: the last, which you may find in the peat-bogs round Shapwick station, is due to the delicate fancy of Linnæus, who first discovered and named it, blooming lonely on a barren, rocky isle, like the daughter of Cephers, chained to her sea-washed cliff. The $\mathfrak{F}$ uno rose, or tall white lily, was blanched by milk which fell from the bosom of Juno, the tale being transferred in Roman Catholic mythology to the Virgin Mary and the milk-thistle. The yellow carline thistle is named after Carl the Great (in Mr. Freeman's county I must not call him Cbarlemagne), who, praying earnestly for the removal of a pestilence which had broken out in his army, saw in vision an angel pointing out this plant as a heaven-sent cure. The leerb Robert healed a disease endured by Robert, Duke of Normandy, still known in Germany as Ruprecht's-plage. The filbert, though this is disputed, commemorates the horticultural skill of one king Philibert. The traacle mustard, a showy crucifer resembling wailflower, was an ingredient in the famous Venice treacle, compounded, as you will remember, by Wayland Smith to treat the poison sickness of the Duke of Sussex. The word treacle is corrupted from the Greek thariaczan, connected with wild beasts, whose blood formed part of the antidote. It was at first made up by the physiciau to Mithridates, King of Pontus; and is still in many parts of England known as mithridate mustard. The flower-de-luce, or fleur-de-lys, is the flower of King Louis, having been assumed as a royal device by Louis VII. of France, though legend figures it on a shield brought down from heaven to Clovis, when fighting against the Saracens. It is probably a white iris.
Not a few strange superstitions and beliefs are embalmed in well-known names. The celandine, from chelidon, the swallow, exudes a yellow juice, which, applied by the old birds to the eyes of young swallows, who are born blind, or have lost their sight, at once restores it. The haribk-zueed has the same virtue in the case of hawks. The fumitory, fiume terre, was produced without seed by smoke or vapour rising from the ground. The devil's-bit is a common scabious, with a premorse or shortened root, which was used so successfully for all manner of diseases, that the devil spitefully bit it off, and for ever checked lts growth. The eyelright, or euphrasy, was given to cure ophthalmia.

> "Michael from Adam's eyes the fim removed, The visual nerve, forged with euphrasy and ruad much to see."

The $\mathscr{F} u d a s-t r e e$, with its thorns and pink blossoms, was the tree on which Judas hanged himself. The marudrake gathered round itself a host of wild credulities. It was the atroka mandragora, a plant nearly allied to the deadly nightshade, but with a large forked tuber resembling the human form. Hence it was held to remove sterility, a belief shared by Rachel in the Book of Genesis, and was sold for high prices in the middle ages with this idea. In fact, the demand being greater than the supply, the dealer used to cut the large roots of the white bryony into the figure of a man, and insert grains of wheat or millet in the head and face, which soon sprouted and grew, producing the semblance of hair and beard. These monstrosities fetched in Italy as much as thirty gold ducats, and were sold largely, as Sir T. Brown tells us, in our own country. It was thought that the plant would only grow beneath a murderer's gibbet, being nursed by the fat which fell from his decaying body: hence it formed an ingredient in the love-philtres and other hell-broths of witches; and, as it was believed that the root, when torn from the earth,
emitted a shriek which brought death to those who heard it, all manner of terrible devices were invented to obtain it. The readers of Thalaba will remember the fine scene in which the witch Khawla procures the plant to form part of the waxen figure of the Destroyer. I have seen the plant growing in the Cambridge Botanical Gardens ; it is not uncommon in Crete and Southern Italy ; its fruit is narcotic, and its name is probably derived from mandra, an inclosed, over-grown place, such as forms its usual home.

The medical beliefs revealed by many names are not less curious than their legendary associations. It was the opinion of the old herbalists or simplers that God had not only provided special plants as a cure for every disease, but had made their curative power evident by stamping them with some resemblance to the malady they were meant to heal; and this faith, known to students of our older botany as the "Doctrine of Signatures," lurks or reveals itself in many an English name. The lung-wort, spotted with tubercular scars, was a heal for consumption ; the liever-wort, liver-shaped in its green fructification, was a specific for bilious maladies ; the scaly pappus of the scabious for cutaneous eruptions; the throat-like corolla of the throat-zeort, or Canterbury bell, caused it to be administered for bronchitis; the saxifrage, cleaving the hard stones with its penetrating fibres, was efficient against calculus ; the scorpion-grass, now known as the forget-me-not, whose flower-spike dimly resembles a scorpion's tail, was an antidote to the sting of that or of other venomous creatures; the moon-daisy averted lunacy; the birthquort, Kilney-wetch, nipplc-wort, spleen-wort, were all appropriated, as their names suggest, according to resemblances, real or fancied. The pretty toad-flax of our walls and hedges owes its name to a strange mistake. Believed to be the cure for a complaint called buboes, it received the Latin name bubourium. A confusion between butbo and bufo, which is Latin for a toad, gave birth to its present name; and stories were not long wanting that sick or wounded toads had been seen to eat of it and to recover health.
Similar distortions occur in non-medical names; and it is most curious to notice how soon a story springs up or a belicf asserts itself in confirmation of the mistaken ideneity. The common funnitory, which we have already noticed, received its name of fume-terre, earth smoke, from its causing the eyes to smart and water when applied to them, as smoke does. The meaning was lost as time went on, and was supplied by the belief that it was produced without seed by smoke or vapour rising from the earth. Buttercup was said to give colour and llavour to butter, as being eaten by cows, when in blossom, the facts being that it is a corruption of boutor-copp, button-head, and that cows eat the grass all round it, but always, if possible, avoid it. Meadow-szueet is a corruption of mead-wort, honey-wine ticurt, a beverage being still extracted from it by cottagers. Burllizesh is pool-rush, as growing in pools, not in mud ; snapdragur is snout-dragon, from its shape; marigold is marsh-gold; sweet-william is cillet, a little eye; ponk is the low German finksten, Pentecost, from its flowering at Whitsuntide, the name being transferred first to the colour of the flower, then to a method of working flowers on muslin, called pinking; and so to the sword-stab in a duel, piercing or pinking an adversary as the needle pierced the cambric. Nightshade is night-scada, soother, or anodyne ; samphire is St. Pierre, from its love of rocks; samicle is St. Nicholas, the restorer of the three murdered childiren, from its healing powers; poplar comes from the Indian tephul, whose leaves when varnished and painted closely resemble those of the large Spanish poplar; primrose was anciently the daisy, and is called by Chaucer primerole, from the old French primeverole, the first spring flower ; primerole was changed to primrolles, that to primrose, the first rose of spring ; and it was not till the sixteenth century that it attached itself to the familiar flower which now bears its name. Cotesslip is more strange still. It was originally hose-flap, and belonged to the mullein, whose great flannelly leaf might well be likened to the flap or skirt of a woollen under-garment. Later on it was transferred to the wild primula of our meadows, and the mistake was stereotyped by the unlucky botanist, who in ignorance of its origin gave the name of oxlip to its pretty congener, the Primula elatior. The Yerusalem artichoke is a sun-flower, not an artichoke; but the tubers resemble the artichoke in flavour. From its Italian name girasole, turn to the sun, came Jerusalem; and by a further quibble the soup made of it is called Palestine soup. The forget-me-not was originally the gernander speedzeill, whose blossoms, falling off and flying away as soon as it is plucked, gave emblematic force to the name. It was known in the days of
chivalry as the "flower of souvenance," and was embroidered into the collars of the knights, a fact still recalled by its German name Ehrenpreis, prize of honour. About 200 years ago we find the name given to the ground-pine, Ajuga chamapitys, whose nauseous taste once realised can never be forgotten. Finally it was seized upon by the river-side Myosotis, and forthwith sprung up a charming legend, created obviously to suit its latest identification, how that while two lovers loitered by a lake, the maiden saw and longed for the bright blue flowers, the knight plunged in to get them, but, unable to regain the shore, had yet agility enough to fling them into his lady's lap, and then with a last devoted look and the words "forget me not," sank below the waves for ever.

Many names of plants contain the geography of their origin. The Canterbury bell is obvious, so is the Guelder rose. The Alexanders, a rare plant round Taunton, but growing in great quantities at Blue Anchor, comes from Alexandria; the candy-tuft, from Candia; the elecampane, from Campania; the medick, from Media; the carraway, from Caria; the walnut or Welsh nut from the north of Italy, called Wälsh by the Germans. Peach is Persicus; shalot, Ascalonicus; spinach, Hispanicus; the damson, rightly spelt as Damascene, tells its own tale, which is less clear in the case of the Dame's or Damascene violet, a corruption extended and perpetuated, as often happens, by its Latin equivalent, matronalis.

All first attempts at classification, etymological or other, leave a large margin of miscellaneous items refusing to be ticketed or systematised; and there remain a few names falling under none of the categories which I have cited, yet too interesting to be omitted. Such is apple, retaining its form in the Teutonic, Celtic, Sclavonic, and Lettish languages, and springing apparently from the Sanscrit $a p$, water, which reappears inverted in the Latin $p a$ of Padus, po of Poto and Pomumm, meaning therefore the water fruit or juice fruit. Such again is daffodil, the daftadozondilly of Spenser and other poets. It is a combination of sapharoun, or saffron lily, with a-phodelus, the oid English afodilly. With the taste for alliteration often shown in popular names the sapharoun lily blending with the affodilly became by a mutual compromise daffadowndilly, whence daffodilly and daffodil. Foxglove is the fox's glew, or tintinnabulum, a ring of bells hung on an arched support. Bedstraw was a plant much used for couches before mattresses were invented, and a species which when dry yields a pleasant scent is still called lady's bedstrazv. Carnation is coronation, its flowers being used as crowns or chaplets, just as campion is champion, gathered to crown the champions in a tournament. Cress is possibly from cross, its petals being cruciate ; possibly from crescere, to grow, in token of its rapid increase. It was used in Chaucer's time under the form of kers to express any insignificant quantity.

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"Of paramours ne raught he not a kers,"
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from which comes, perhaps, our vulgar phrase, "I do not care a curse," though a yet ruder parallelism has since been manufactured to confuse its spelling and its etymology. Nettle is from $n e$, to spin, indicating that its coarse fibres were used for thread in early times, an idea borne out by Hans Andersen's beautiful tale of the wild swans, in which you rencember that the princess was permitted to redeem her brothers from their transformation by weaving them shirts of nettles. Shamrock is from an Erse word signifying the little trefoil. The story of its theological use by St. Patrick is of modern date, and it has been taken by various writers to represent the water cress, the zeood sorrel, the Dutch clover, and the black medick. Irishmen are divided in the present day between the two last, which are sold on St. Patrick's day both in London and Dublin. The snozedrot is so-called from its resemblance to the large eardrops worn by ladies in the sixteenth century, and represented otten by painters of that period. The tobacco was the Indian name for the pipe in which the weed was smoked, not of the weed itself; and potato belonged at first to a tropical convolvulus, and was transferred by mistake to the well-known esculent. The gooseberry was the cross-berry, from its triple spine, which frequently takes the form of a cross. The hollihock is the cauli-hock, hock being an old name for the mallow, to whose order it belongs, and cauti, meaning cabbage, either from its lofty cabbage-like stalk, or, as in cabbage-rose, with reference to its rich double bloom. The laburnum closes its petals at night-fall like a tired labourer, and the ozier is named from the oozy beds which suits its growth.
I bring my list to an end, not because it is exhausted, but for fear my hearers should become so. I have picked only the most suggestive and curious of our many floral names, leaving an
abundant gathering to many gleaners. One branch of the subject I have barely touched, the superstitious practices attaching to many of our wild plants, though not surviving in their names. I have left alone the interesting question of Bible plants, of the hyssop, the juniper, the mustard-seed, the lilies of the field, the burning bush, the shittah, the almug, the gopher, the curiously mistranslated cab of dove's dung, with the light thrown upon their identity by the names given to them in the commentaries in our older translations. Nor can I do more than hint at the rich store of hiterary allus on to our wild flowers which abounds in all English poets, and the beautiful thoughts suggested to many of them by some particular plant. I should have liked to read you Chaucer's lines upon the daisy, Herrick's on the daffodil, Burns's on the dog-rose, Shelley's on the sensitive plant, Southey's on the holly, Wordsworth's on the Iesser celandine, Longfellow's on the compas-plant. I should like to open volume after volume of Elizabethan and of later days; to enumerate and discuss the flowers with which Ben Jonson bids us "Strew, strew the smiling ground;" the ""pretty paunce and chevisaunce," of Spenser ; the "quaint enamelled eyes" that decked the laureate hearse of Lycidas;" the silver globes of guelder rose" which won the heart of Cowper; the "hawthorn bush beneath the shade" of Goldsmith's lovers; the "slight hairbell" which raised its head, uncrushed by the airy tread of Ellen Douglas. I should like to remind you of the lessons in natural theology which Paley drew from the " little spiral body" of the dodder seed; of the star-shaped shadow of the daisy which Archer Batler showed to Wordsworth, or how Linnæus, when he first saw the wild broom in flower,
"Knelt before it on the sod, For its beanty thanking God."
Above all I'shouid love to turn with you the page of Shakespeare; to read of the grey discrowned head of Lear wreathed with "rank fumiters and furrow weeds;" of Perdita at the shearing feast disparaging the streaked gilliffowers as Nature's bastards ; of poor distranght Ophelia distributing her rosemary and herb of grace ; of Puck telling how love in idleness was purpled with love's wound; of Titaria gently entwining the "female ivy and sweet honeysuckle" round the sleek smooth ass's head of Bottom: of Helena and Hermia, "a double cherry seeming parted, two lovely berries moulded on one stem." For I should lay on you a spell mightier than I can forge myself; I should invoke allies before whom we all bow as the source of our intellectual happiness and growth; I should remind you how the most creative minds have drawn nutriment from these tenants of our hedgerows and hill-sides, and how the knowledge of their lore helps us in its turn to interpret the sweet thoughts and apt illustrations of the poets they inspired and delighted : how, if the aspirations of my Cambridge botanist were fulfilled; if the daisy could become the bellis, the strawberry the fragaria, the honeysuckle the caprifolitum, the heather the calluna, the parting genius of romance and myth and association and folklore would be sent sighing from the domain of botany; and the richest and most attractive of the natural sciences would become the dullest and the most neutral.

In conclusion, let me disclaim all merit of originality in the ideas which have been put before you to-night. I have but attempted to bring together, with the interest attaching to cumulative illustration, conjectures which have been started and discoveries which have been worked out by others. Scattered through the old-fashioned tomes of Coles, Lyte, Parkinson; through the pleasant pages of Loudon, Pratt, Johns; above all in that most valuable work on popular botany which we owe to our Somersetshire naturalist, Dr. Prior, you will find all or nearly all that I have advanced. The flowers were plucked by other hands; mine has been only the pia dextera to sort and wreathe them.

## NOTES

We greatly regret to record the death of Mr. J. P. Gassiot, D.C.L., F.R.S., which took place on the 15 th inst., the opening day of the Plymouth meeting of the British Association, at the age of upwards of eighty years. Sir Wm. Thomson referred to Mr. Gassiot at the concluding meeting of the Physical Section in terms of the highest appreciation. His experiments with the vacuum tubes, an account of which will be found in the

Royal Society's publications, extended over many years, and he varied them in very many ways, in order to throw light on the theory of the stratified discharge. Mr. Justice Grove worked a great deal with Mr. Gassiot, who continuously for many years experimented with a battery of high potential, beginning with a battery of 500 water, and ending with 3,500 Leclanché cells. He spared no expense or trouble in his own researches, and in making known to Englishmen the researches of continental physicists by the purchase of similar apparatus to that they had employed. At his scientific gatherings one met the eminent men of all nations, and in the early days of the British Association they generally assembled after the meetings at Clapham Common. Before his death he distributed the greater part of his apparatus ; much of it was given to the Cowper Street Middle Class School, and his vacuum tubes (in very great numbers) to Mr. Spottiswoode. He was a generous patron of science, and a helper of scientific men. Ite has munificiently endowed the Kew Observatory and the Cowper Street Middle Class School, and was the founder of the Royal Society Scientific Relief Fund. His untiring activity enabled him to take an active part in the administration of some of the largest public companies, and though in years he lived a very long life, by his activity he may be said to have lived twice as long. He was the intimate friend of Faraday, and most men of eminence in England and abroad; those living will recall, when they hear of his death, the many pleasant and profitable hours spent at Clapham Common.

We learn from a correspondent in Alexandria, under date August. 12, that the obelisk is now neariy quite inclosed in its iron casing, and its launch may take place in another fortnight or so. "It is now receiving an outer skin of strong thick planks, to protect the casing from injury when it is rolled down the inclined plane intc the sea. Two delicate engineering opera, tions have to be got over before it is ready for the launch. The first is to let down the obelisk on to its bed in the cylinder, and, that accomplished, to complete the riveting of the lower plates, and then let the whole down on to the ground; for at present the obelisk and cylinders are supported above the ground independent of one another. There will be no ceremony at the launch as the state of the sea may prevent the operation at any fixed time ; and a calm day will have to be selected. The fête will take place when it is ready for sea after being docked in the Great Harbour. It has yet to have a rudder and bilge keels fitted, besides the cabin, wooden deck, mast, sail, \&c. It will be painted bright-red and bear the name of "Cleopatra." It met at sea, it may be taken for a torpedo boat, and avoided accordingly. One side, the part which remained undermost, is in beautiful preservation, but other sides are more or less eroded; [still, when erected and seen at a distance the hieroglyphs will probably appear more sharply defined than when seen close and in a prostrate position."

Prof. E. S. Morse, of Salem, Mass., is now busy with dredge and microscope in Japan, having fixed his headquarters at Inoshima, seventeen miles south of Yokohama. Recently he ascended one of the highest of the Japanese mountains, about 100 miles from the coast, and found opportunity there for dredging Lake Chiusenji, a body of water 4,000 feet above sea level. Its fauna was ascertained to be quite peculiar. Prof. Morse will return to the United States in time for his usual courses of lectures during the coming autumn and winter; but afterwards, in 1878 , he expects to go back to Japan, having accepted an engagement in the Imperial University of Tokio, as professor of biology. He has also projected a summer school of natural history, to be conducted on the coast near the university; his text-book for beginners in zoology is to be translated into the language of Japan, and animals native to that country are to be

