tion of the mammal-brain which speech] extinguishes its function next three decades. we call the seat [preferably the [speech]. which is evolved out of the convex progress of the microscopic anatomy of the brain, which we owe to the perfect methods of research of deaden it, and so forth. modern science (Kolliker, Flechsig, Golgi, Edinger, Weigert, and oth-

is the discovery of the organs of thought by Paul Flechsig, of Leipzig; he proved that in the gray use of these organs? bed of the brain are found the four seats of the central sense-organs, or four "inner spheres of sensation" -the sphere of touch in the vertifrontal lobe, the sphere of sight in of hearing in the temporal lobe. Between these four "sense-centres" lie the four great "thought-centres," or centres of association, the real organs of mental life; they are those highest instruments of psyand consciousness. In front we have the frontal brain or centre of association; behind, on top there is circumstances; he does not know the vertical brain, or parietal centre of association. and underneath terdry he could say, "I am I"; tothe principal brain, or "the great day he must say, "I am another occipito-temporal centre of associ- being." ciation" (the most important of consciousness may last not only tails, and embody them in general all); lower down, and internally, day, but months, and even years; the insular brain or the insula of Reil, the insular centre of association. These four "thought-centres," distinguished from the intermediate "sense-centres" by a pecular and elaborate nerve-structure, re the true and sole organs of thought and consciousness. Flech--ig has recently pointed out that, in the case of man, very specific structures are found in one part of them; these structures are wanting in the other mammals, and they, therefore, afford an explanation of the superiority of man's mental powers.

The momentuous announcement of modern physiology, that the cerebrum is the organ of consciousness and mental action in man and the higher mammals, is illustrated and confirmed by the pathological study of its diseases. When parts of the cortex are destroyed by disease their respective functions are affected and thus we are enabled to some extent, to localize the activities of the brain; when certain parts of the area are diseased, that portion of thought and consciousness disappears which depends on those particular sections. Patho-

the cerebrum, an area in the late- the most familiar phenomena of characterizes senility, usually sets needful, that winter is as necessary developed gray bed, or cortex, consciousness of their complete de- in at the commencement of the sev- as summer, that night is as useful dorsal portion of the primary cere- the substance of the brain. Many sometimes later. Memory, recep- tion of life, and just as good. We bral vesicle, the "fore-brain." Now beverages [such as coffee and tea] tiveness, and interest in particular believe in the Now and Here. We the morphological proof of this stimulate our powers of thought; objects gradually decay; though believe in you, and we believe in a physiological thesis has been suc- others [such as wine and beer] in- productivity, mature consciousness, Power that is in Ourselves that cessfully given by the remarkable tensify feeling; musk and cam- and philosophic interest in general phor reanimate the fainting con- truths often remain for many years sciousness; ether and chloroform longer. would that be possible if conscious- consciousness in earlier youth ness were an immaterial entity, independent of these anatomical or-The most important development gans? And what becomes of the consciousness of the "immortal soul" when it no longer has the

These and other familiar facts prove that man's consciousness -and that of the nearest mammals-is changeable, and that its cal lobe, the sphere of smell in the activity is always open to modification from inner [alimentation, the occipital lobe, and the sphere circulation, etc.] and outer causes [lesion of the brain, stimulation, etc.] Very instructive, too, are the facts of double and intermitconsciousness, which of "alternate remind generations of presentachic activity that produce thought tions." The same individual has an entirely different consciousness on different days, with a change of today what he did yesterday: yes-Such intermittence of the change may even become perm-

As everybody knows, the newborn infant has no consciousness. Preyer has shown that it is only developed after the child has begun to speak; for a long time it speaks of itself in the third person. In the important moment when it first pronounces the word "I," when the feeling of self becomes clear, we have the beginning of self-consciousness, and of the antithesis to the non-ego. The rapid and solid progress in knowledge which the child makes in its first ten years under the care of parents an teachers, and the slower progress of the second decade, until it reaches complete maturity of mind, are intimately connected with a great advancement in the growth and development of consciousness and of its organ, the brain. But even when the pupil has got his "certificate of maturity" his consciousness is still far from mature; it is then that his "world-consciousness" first begins to develop, in his manifold relations with the outer world Then, in the third decade, we have the full maturity of rational logical experiment yields the same thought and consciousness, which,

organ] of consciousness is a part of In fact, there is proof enough in the higher mental powers, which things. We know that work is pendence on chemical changes in enth decade-sometimes earlier, as day, that death is a manifesta-

The individual development of proves the universal validity of the biogenetic law; and, indeed, it is still recognizable in many ways during the latter years. In any any case, the ontogenesis of consciousness makes it perfectly clear that it is not an "immaterial entity," but a physiological function of the brain, and that it is, consequently, no exception to the general law of substance.

Moreover, that highest stage of consciousness, which is reached by man alone, has been evolved step by step-even by the very progress of civilization-from a lower condition, as we find illustrated today in the case of uncivilized races. That is easily proved by a comparison of their languages, which is closely connected with the comparison of their ideas. The higher the conceptional faculty advances in thoughtful civilized man, the more qualified he is to detect con mon features amid a multitude of deconcepts, and so much the clearer and deeper does his consciousness become.

Book Notes.

[From "Little Journeys to the Homes of English Authors," from the "Philistine, a periodical of protest," published by the Roycrofters, East Aurora, N. Y.]

Quaintness and humor and wisdom are a trinity which we all worship. Even the sad victims of "the liver-trouble belief" cannot be wholly indifferent thereunto. So all welcome these "Journeys" and the "Philistine" which put a a soft mellow, yet alterative sunlight over the world, and make us see and feel, and so appreciate things and fellows as we could not before. Did we ever see and feel our creed, for instance, more lovingly and livingly than in these words over poor Coleridge.

"We no longer accept the doctrine that our natures are rooted in infamy, and that the desires of the flesh are cunning traps set by Satan, with God's permission to undo us. We believe that no one can harm us but ourselves, that sin is misdirected energy; that result; the decay of some known in cases of normal development, there is no devil but fear, and that rea [for instance, the centre of yield their ripe fruits during the the Universe is planned for good. are not to be noticed.

On every side we find beauty and The slow gradual degeneration of excellence held in the balance of makes for Righteousness."

> Yes, "the Universe is planned for good" as we adapt and adopt it to our goodness, as stock and scion to each ether. Thus the goodless and badless wild of the Universe becomes our flower and fruit garden, as the good makes it "good." And yet nature makes us too, and "is made better by no mean, but nature makes that mean."

Who Owns The Child?

The child belongs to itself, and not to the State or the Church, nor the parent. The doctrine that the child belongs to the parent, is a survival of the savage times when the father might sell or kill his child. According to the priests of all relgions the child belongs to God and parents must hand it to them as his vicars. By our civil law, made by the people for the people, the child is not a property but a personality, and the State is the guardian of the child as a coming factor in the civil firm. As the State holds the man responsible to itself, so also is It responuible to the child, and is both entitled and bound to see that it is protected and rightly educated as a citizen, loyal first of all to that government which cares for its welfare and claims its future support.

The regent of that religion which more than any other asserts its authority above all others, is most inconsistent of all together, in demanding rights on the grounds of thosé secular and religious liberties which it is one of its four cardinal principles to condemn and to ever affirm the Church above the State! If the State has any right, it is to repel such doctrine, and if the child has any right, it is to rebel against being taught such dogmatism as this and its like abominations. The whole logical argument against the Bible in public school is this: The Bible is a religious book, the public school is a secular institution.

We do not insist enough on the rights of the State to control the education of the children and to resist the efforts of the Church, or rather of its priests who try to twist heaven and earth to their own will. When the Catholics stop their holy devotions in those public schools which they control we can think them more sincere in their protest against sectarian teaching in secular institutions.

J. P. G.

People who act very small