BRAIN AND MIND;

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MENTAL SCIENCE CONSIDERED IN ACCORDANCE WITH THE PRINCIPLES OF PHRENOLOGY,

NA COLY

RELATION TO MODERN PHYSIOLOGY

84

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ILLUSTRATED.

Sixth Edition.—Revised and Extended.

"The greatest friend to Truth is Time, her greatest enomy is Prejudice, and her constant companion is Humility."—Couron, Lacon.

"Phrenology is establishing itself wherever its immense value has been rightly understood."—Sie G. MACKENZIE, F.R.L.S.

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1802.

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thors to meet an existing want, viz: that of a treatise which not only gives the reader a complete view of the system of mental science known as Phrenology, but also exhibits its represented to-day by standard authority. The literature of tions from the pens of competent observers in Europe and this country, but none have given more than a passing glance leading physiologists have upon our subject, notwithstanders have announced are "confirmations strong" of old phrenological principles,

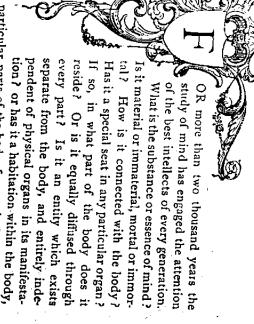
Appreciating the immense importance to society of a correct system of mental philosophy, and being in a thousand ways cognizant of the great value of sound phrenological teaching to each member of society, the authors present this volume to the reader, asking only that it be perused in a spirit of candor, and with due respect for truth.

NEW YORK, December, 1879.

INTRODUCTION,

A SURVEY OF ANCIENT AND MODERN PHILOSOPHY

Phrenology then, stands exactly like the other sciences of observation upon the basis of phenomena and their observed correspondence with a theory which is deduced from them.—Silliman,



and particular parts of the body, for particular modes of manifestation? How many, and what are its faculties? Are these innate in the mental constitution? or is the mind a blank at birth? And are its various faculties developed by education and other adventitious circumstances? These

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rent of speculation. in scholastic philosophy, and yet merely changed the curto the nature of self-consciousness produced a revolution the teachings of the famous Descartes, whose inquiries in-German school of metaphysics owed its origin mainly to man mind for elaborating the matter of intuition and subintellectual intuition is rejected. What is regarded as the philosophy is a jumble of speculation, in which belief in jecting it to the highest unity of thought." The Hegelian beyond which nothing higher can be discovered in the huproceeds thence to understanding, and ends with reason, Reason," says: "All our knowledge begins with sense, many the most notable of these, in his "Critique of Pure of the German writers of the period. Kant, deemed by Thomas Brown, who contended against the skeptical views inson, Thomas Reid, Dugald Stewart, Lord Kames, and Edinburgh school comprised such men as John Hutch-

state Imagination to be a primitive power of mind; while and familiar faculties of the mind is debated among these totters to its fall. The very existence of the most com n sophical profundity, the fabric of Stewart, which already many important particulars; and recently Dr. Thomas faculty; but this is denied by Dr. Brown. philosophers. Mr. Stewart maintains Attention to be a Brown has attacked, with powerful eloquence and philo-Stewart, while he illustrated Reid, yet differed from him in Reid overturned the philosophy of Locke and Hume. Mr. succession. To confine ourselves to modern times, Dr. ished, fallen, and been forgotten in rapid and melancholy department of science; and system after system has flourbeen directed with the most persevering industry to this Mr. George Combe, "the most powerful intellects have "From the days of Aristotle to the present time," says Others, again,

> good, perception of utility, and obedience to the Divine the sentiment of right and wrong into a regard to our own command." but Hobbes, Mandeville, Palcy, and many others resolve Stewart, and Brown admit the existence of moral emotions; matics, 'are gradually formed by particular habits of study Thomas Brown denies their title to that appellation. Reid, Conception, and Memory as original powers; while Dr. discovered that these powers, and also a genius for matheon a few; but Mr. Stewart, by dint of his philosophy, has or business." for poetry and painting, are gifts of nature bestowed only observation informs us that a taste for music, and a genius quired habits aided by favorable circumstances.' Common Imagination, is not the gift of nature, but the result of ac-Mr. Stewart informs us that 'what we call the power of On the other hand, he treats of Perception,

Thus, after the lapse and labor of more than two thousand years, philosophers are not yet agreed concerning the existence of many of the most important principles affecting the intellectual powers of man.

If we inquire into the causes of these conflicting theories, and the barren results which have attended the study of mind in the past, we shall find its explanation in the methods of investigation which have hitherto been employed. Anatomists and physiologists have dissected the human body, analyzed its various systems, and discovered the functions of nearly all its parts. The knowledge which they have obtained of the physical system by material appliances is precise and definite; so that there is now a general agreement in regard to the fundamental principles of physiology. But the mind is not subject to such methods of investigation. They who taught that the brain is the seat of three general faculties of the internal sense, were

a subtile, intangible principle, a thought, an emotion, from an examination of the cerebral tissue! then, must it appear to discover the nature and powers of amination of its material parts. How utterly impossible, would he be able to discover its function from a mere exstructure its complete adaptation for its purpose, but never which the eye, the ear, the heart, or the stomach subserved in the animal economy, be able to trace out in its form and hearing, which of smelling, which of sight, or which of feelable to determine which was the nerve of taste, which of by nothing in their structure or substance would he be Lay before an anatomist the nerves of the five senses, and scalpel and the microscope, has been able to discover the function of an organ from an examination of its substance, tion to find any traces of courage in the heart or anger in in the thoracic and abdominal viscera ever able by dissec-Nor were those who taught that the passions had their seat or phantasy, or memory slumbering within its ventricles. never able to discover by dissection either common-sense, He might, indeed, after having learned the purposes No anatomist, by the most skillful use of the

Philosophers have pursued the study of mind by different methods, but generally have endeavored to shut out the material world, and to shut the mind in upon itself, and thus make its personal phenomena a study. By reflection on consciousness, they have attempted to analyze the mind and resolve it into its elements. But reflection on consciousness can not reveal the function of an organ, the processes by which thought and feeling are elaborated, or the means by which the internal operations of the body are in the brain, but it gives us no idea of the functions of its different parts. We will to move an arm, but we are not

conscious of the nervous influence being transmitted to and from the brain along the nerves of feeling and motion. We see, we taste, we smell, we hear, but consciousness gives us no knowledge of the location or the condition of the nerves of the senses, nor does it reveal the changes which they undergo in the performance of their functions. If we ignore the influence of organization in the mental manifestations altogether, and undertake to resolve the mind into its elements by reflection on consciousness, the imperfections of the individual mind of each philosopher would naturally appear in his system.

This is actually the case; most of the writers on mental philosophy have given to the world systems or doctrines which are little more than reflections of their individual modes of thought and feeling; hence the great diversity of opinions which characterize their works.

Whatever may be the original powers of mind, or their means or mode of manifestation, it is evident that men differ widely in disposition and capability. Some are selfish, others are generous; some are penurious, others are liberal; some are passionate, others are mild and pacific; some are ambitious, others are deficient in aspiration; some have a delicate sense of truth and justice, and others are influenced by these sentiments in only a feeble degree.

We observe also that one individual has a peculiar talent for mathematics, another for music, and another for drawing and penmanship. One is able to express his ideas with great fluency, and another passes for a dullard in society because of his inability to give his thoughts expression. The style of one is concise, harmonious, and abounding in well-chosen illustrations; that of another is dry, diffuse, obscure, and lacking in grace and beauty. One loves to reflect upon the deep and hidden things of nature, and to

CHAPTER I.

GENERAL PRINCIPLES.

Phrenology—composed of two Greek words, φρην signifying mind, or the reasoning faculty, and λογος, discourse—is a system of mental philosophy founded upon the physiology of the brain. It assumes as its fundamental principle that the brain is the organ of mind just as the eye is the organ of vision, the stomach of digestion, or the heart of circulation.

uted them through the arteries of the body; and Bichat others imagined that it secreted vital spirits, and distriband Boyer considered it a secretory organ; Galen and many thought it was a collection of confused intestines; Sabatier marrow; Misticelli called it an inorganic mass; Malpighi and others regarded it as a mere excrescence of the spinal function the brain performed in the animal economy. proofs by which the truth of this proposition is established opinion, it may be well for us to bring forward some of the those who are disposed to dispute the correctness of this the brain is the organ of mind. As, however, there are now generally conceded by the leading physiologists that thought it an envelope to protect the parts beneath. the heat of the heart; Praxagoras, Plistonicus, Philotinus, Aristotle considered it a bloodless mass which tempered Hippocrates and Astruc thought the brain was a sponge; It was long a disputed point among physiologists what

power invariably accompanies a marked deficiency of brain. In the lowest class of idiots the horizontal circumference of the head, above the ears, measures from 12 to 13 inches; in a full-sized head the circumference is 22 inches. In such idiots the distance from the root of the nose, measured over the top of the head to the occipital spine, is but 8 or 9 inches; in a full-sized head it is 14. The heads of barbarous or savage races are smaller than those of the civilized; the negro skull has a brain capacity averaging 82



Fig. 1.-Low Type, loiot Skull.

Fig. 2.-WELL DEVELOPED SKULL

cubic inches; the higher tribes of American Indians, according to Prof. S. G. Morton, like the Seminoles and Oncidans, have a brain-measurement of about 90 inches; while the measurement of the English and German encephalon internally is placed by the best authorities at over 100 cubic inches. In a table derived from 405 autopsies of white and negro brains, recorded by Prof. Austin Flint, of New York, the average weight of the white brain is given at 52 ounces, and that of the negro at 46.9; these negro specimens, however, were of men who had been associated

CHAPTER II

OF THE TEMPERAMENTS.

Stance and quality of their organizations. Some, like the wood of the palmetto tree, are porous, spongy, and weak; while others, like the oak, are dense, firm, and strong. There are small horses which will outwork large ones; and a small man very frequently displays greater physical strength and endurance than one of a much larger size. These differences are referable to what is termed the quality of the organization. It pervades the whole body, imparting its influence to the brain and nerves, as well as to the muscles; and thus, through the material instrument of the mind, affecting mental manifestation. This quality is so intimately related to the physical organism that a knowledge of the temperaments which enter into its constitution is most important in the study of mind.

Temperament may be described as a certain state or condition of the body depending upon the relative energy of its different functions. According to the ancient doctrine as promulgated by Hippocrates, the "father of medicine," there are four temperaments depending upon what he considered the four primary components of the body the blood, the phlegm, the yellow bile, and the black bile. According to the preponderance of any one of these, the individual was known as, respectively, of the sanguine, the phlegmatic, the choleric, or the melancholic temperament.

In this classification, the brain is not considered as exerting any special influence, although its function is now conceded to be the most important in the animal economy. The attention of Drs. Gall and Spurzheim was directed to this fact, and they perceived the necessity of considering the brain as the basis of a special temperamental condition.

Simuraheim's Classification.—According to the classification adopted by the first teachers of phrenology, there are four temperaments, the Lymphatic, the Sanguine, the Bilious, and the Nervous, each depending upon the predominating influence of the stomach, the lungs, the liver, and the brain respectively. These different temperaments are indicated by external signs which are open to observation.

The Lymphatic Temperament, depending upon the predominance of the stomach, is characterized by a pale skin, fair hair, roundness of form, and repletion of cellular tissue. The vital action is languid, the flesh is soft or plastic, and the circulation feeble and slow. The brain, partaking of the general systemic condition, is slow and feeble in its action, and the mental manifestations are proportionately weak.

The Sanguine Temperament, in which the lungs, the heart, and the blood-vessels are constitutionally predominant, is indicated by moderate plumpness of parts, tolerably firm flesh, light or chestnut hair, blue eyes, fair complexion, and ruddiness of countenance. There is great activity of the arterial system, fondness for exercise, and an animated countenance. The brain, in correspondence with the general state, is active.

The Bilious Temperament, having the liver for its basis, is marked by black hair, a dark-yellow or brown skin,

black eyes, moderately full, but firm muscles and strongly-expressed physical outlines. All the bodily functions are characterized by great energy of action, which extends to the brain; and the countenance, in consequence, has decided and strongly-marked features.

The Nervous Temperament, depending upon the predominant influence of the brain and nervous system, has,

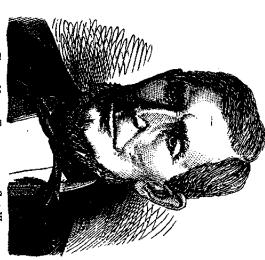


Fig. 3.—MOTIVE TEMPERAMENT. GOV. W.

as its external signs, firm and rathor thin hair, thin skin, paleness of countenance, small muscles, and often delicate health. The sensations are lively, and the muscular actions rapid. The whole nervous system, including the brain, is extremely active, and the mental manifestations are proportionally vivacious.

The Luter Classification.—The classification of the temperaments used by early phrenologists, although correct and valuable in a pathological point of view, is not founded entirely upon a healthy state of the constitution, two of the temperaments—the lymphatic and the nervous—being traceable to abnormal conditions of the bodily organs. We therefore prefer a later classification, which can claim a physiological basis, and is also more simple and com-



Fig. 4.-MOTIVE TEMPERAMENT. MISS H.

The human body is made up of three grand systems of organs, each of which has a distinctive general function in the physical economy. They are known as the Motive or Mechanical System, the Vital or Nutritive System, and the Mental or Nervous System.

The Mottve or Mechanical System, composed of the bones, the ligaments, and the muscles, forms, by the combination of these three sets of organs, an apparatus of levers through which all the mechanical movements of the body

are effected. The predominance of this system of organs in any individual gives rise to the special expression in the organization of what we call the Motive Temperament.

The Vital or Nutritive System, in like manner consists of three classes of organs—the Lymphatics, the Blood-Vessels, and the Glands—which, through their functions of absorption, circulation, and secretion, are the instruments of the body's nourishment and purification. Where this



Fig. 5.—Vital Temperament. Dumas.

system of organs is predominantly active, a physiological condition is induced which is known in the new classification as the Vital Temperament.

of connection between the soul, or psychic principle, and the external world, and through which thought and feeling are manifested, is likewise made up of three classes of organs—the organs of Sense, the Brain, and the Nerves. A preponderance of these three sets of organs gives rise to the Mental Temperament.

We have, then, under this classification three temperaments, each of which is indicated by external signs in the physical organization, and exerts a specific influence in the

CHARACTERISTICS OF THE TEMPERAMENTS

manifestation of mind.

The Motive Temperament, depending upon a superior development of the osseous and muscular systems, is mark-



FIG. 6.-VITAL TEMPERAMENT. QUEEN OF SPAIN.

cd by a figure tall and striking, and tending to angularity. The bones are large, and generally long rather than broad; the face is oblong, the cheek-bones high, the neck rather long, the shoulders broad, the clest moderate, and the limbs long and well jointed. The muscles are hard and firm, the complexion and eyes are generally dark, and the hair dark, somewhat coarse, and abundant. The features

are strongly marked, and their expression is striking from their purposes, and often pursue their ends with a tive, and persevering. servers rather than thinkers, are firm, self-reliant, execusuits which employ largely the bodily forces. They are obmarked characters, and are inclined to take the lead in purlove of physical exercise; and its possessors have strongly-This temperament gives great bodily strength, energy, and reckless disregard of their own physical welfare or that of They are not easily turned aside



Fig. 7.-MENTAL TEMPERAMENT. F. A. C.

others. In this temperament the mental organs of Firmor specially active, and the perceptives generally well deness, Combativeness, and Destructiveness are usually large (See Figs. 3 and 4).

acteristic. The shoulders are broad, the chest full; the rather than by length. necessarily marked by breadth and thickness of body, dominance of the organs of nutrition and assimilation, is The Vital Temperament, depending upon the pre-Rotundity is its prevailing char-

> sons of this temperament are characterized by activity, countenance pleasant and often mirthful. Mentally, perauburn, the complexion florid, and the expression of the is short and thick, and the head and face incline to ing, and the hands and feet are relatively small. abdomen well developed; the limbs are plump and taperardor, impulsiveness, enthusiasm, and often by vacillation roundness. The eyes are generally blue, the hair light or



often give way to passion, but are as easily calmed as aroused, and are generally possessed of a cheerful and than persistence, and more brilliancy than depth. and jovial company, and through these are often led away genial disposition. They are usually fond of good living of the table. (See Figs. 5 and 6). into excessive indulgence in stimulants and the pleasures They possess more versatility than firmness, more diligence

dominance of the brain and nervous system, is characterized by a frame relatively slight, and a head relatively large, an oval or pyriform face, a high and pale forehead; bright eyes and expressive countenance, and delicately-chiseled features. The hair is soft and fine, the skin delicate in texture, the voice flexible and somewhat high-keyed, and the expression of the countenance animated and full of intelligence. Persons of this temperament are



Fig. 9.—Combination of Temperaments. Lord Derby.

refined and sensitive in feeling, possess excellent taste, great love of the beautiful in nature and art, and are vivid and intense in their conceptions and emotions. The mind is active and acute and disposed to literary and artistic pursuits. (See Figs. 7 and 8).

Combinations.—These primary temperaments, uniting with each other in different proportions, form combinations almost as numerous as the individuals of the human

race. A purely motive or vital or mental temperament can not be found; and in accordance with its predominance there is necessarily a departure from symmetry of development. The best temperamental condition is that in which these three primary elements are harmoniously blended. In this we have perfection of physical constitution, and the best condition for harmony in the mental manifestations. (See Figs. 9 and 10). To estimate correctly the relative proportion in which these temperaments combine in



Fig. 10.—COMBINATION OF TEMPERAMENTS. MRS. MOTT.

any individual, requires considerable observation and practice; and their influence is so powerful in the mental character that they must be taken into account by the student who would obtain correct views of the relation of the physical organism to mental expression.

Sunitary Influence.— Another important influence which modifies the effect of size is health. Every bodily organ is liable to diseases, peculiar to itself or otherwise,

exists for every other part as well as for itself, the energy normal conditions, which either diminish or intensify its ception to this liability to disease, but is subject to aban organized part of the physical system, forms no exa measure, of rising above the influence of bodily weakorgans. Instances are met with of great mental vigor condependent upon the health and vigor of the other bodily with which the brain performs its function will be largely brain, but the body being an organism in which every part are the mental manifestations affected by disease of the action, and which it is very essential to take into account which impair the integrity of its function. The brain, as general law, that a sound and vigorous body is essential denly, and their cases by no means militate against the ness. Yet such persons usually become exhausted sudmental organs themselves, which seem to be capable, in are rare and are due to extraordinary activity of the joined with a feeble body and ill-health, but such cases in estimating the power of mental organs. And not only their activity would be better sustained and efficient. lodged in sounder bodies, there can be no doubt that to the manifestation of a vigorous mind. Were these minds

gymnast, by judicious bodily exercise, not only increases firm by well-timed exercise. The brain coming under the much greater degree. They become supple, dense, and the size of his muscles, but their strength and vigor in a important element in modifying the effect of size. ulty is called into activity, the blood is determined to that in a manner similar to the muscles. When any mental facgeneral law of organic development, is affected by exercise it is invigorated and strengthened; its size will thus be portion of brain upon which its manifestation depends, and Exercise of the mental organs, in like manner, is an

> increased by the stimulating influence of the blood, but of its previous activity. In the proposition as usually laid of its organ, it is important to know something of the extent in estimating the power of a mental faculty from the size its energy and facility of action in a greater degree. Hence down with reference to the mental organs, that size, cateris quality, health, and exercise, are what are comprehended by the term, "other things being equal." paribus, is the measure of power, these three conditions



CHAPTER VI.

OF THE INTELLECT.

The faculties composing this order take cognizance of the existence, qualities, and relations of external objects. They correspond with the "knowing faculties" of the metaphysicians. First, we would call the reader's attention to the Perceptive group, of which one of the most important elements is

INDIVIDUALITY.

This organ is situated in the first frontal convolution, at the anterior extremity of the frontal lobe, and lies contiguously to that part of the cranium immediately above the root of the nose. (See Fig. 17-1). It imparts the disposition to examine things as individual existences, without any reference to their qualities or purposes. Dr. Gall first named it the Sense of Things, and Dr. Spurzheim subsequently called it Individuality. It is the specializing faculty, taking cognizance of things—a tree, a house, etc., as a simple existence. The other perceptives give us our notions of the qualities of objects, as their form, size, weight, color, etc. Individuality may be termed the noun, or object faculty; while Eventuality is the verb faculty, and specially concerned with the movements, changes, and history of objects.

The great differences in the power of observation exhibited by men, depend chiefly upon the development (86)

of this faculty. Some are able to give an accurate description of objects which they have seen in their daily movements; and others can scarcely afford an hour's entertainment in recounting the things which they have observed in a month's travel.

Through its power of individualizing, this faculty is an important element in a practical character, supplying the disposition to attend to the details and minutize of a subject. Those writers and artists who have it well-developed.



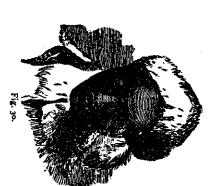
Fig. 97.—LAVATER. INDIVIDUALITY LARGE.

are able to give a distinctness and vividness to their conceptions, which never fail to command attention. Robinson Crusoe and Gulliver's Travels may be instanced as books remarkable for distinctness of detail in narration; and in the heads of De Foe, Swift, and also of Dickens, this organ was greatly developed.

When large, Individuality imparts projection and breadth to the part of the forchead between the eyebrows, and in those persons who have it small the eyebrows are

This faculty is essential to the draughtsman, portraitpainter, the designer, and to all occupations which have to do with a knowledge and judgment of shape. In Michael Angelo it was extraordinarily large; in William Cobbett, the English author, it was small, and but moderate in Byron.

The Chinese are remarkably endowed with this faculty, which corresponds with their well-known mechanical dexterity and capacity for mastering a language which has a different character for nearly every word.



In animals this faculty gives them the ability to distinguish their masters, or those who have been kind to them, and to remember them even after a separation of years. All the animals of a herd know each other, and it is said that when a strange bee undertakes to introduce himself into a hive, composed of from twenty to eighty thousand bees, he is recognized, and driven out or killed. Children with large Form learn to read much more easily than those

in whom the organ is small, and are better adapted to the ordinary mechanical trades than the latter,

SIZE.

The size of a thing is obviously a quality very different from its form. Two eggs, for instance, may be exactly alike in form, but differ greatly in size; and as one of these



Fig. 31.—Size LARGE

kinds of knowledge is conceivable without the other, it is not unreasonable to suppose that they may originate in different cerebral organs. This fact has been demonstrated by numerous observations, which have established the location of an organ, called Size, adjoining Form, on each side of Individuality, at the internal extremity of the arch of the eyebrow. (See Fig. 17-S). Its function is to give the idea of dimension, distance, and space in general. It is essential to the landscape painter and the draughtsman,

organ. Savage races are generally lacking in Mirthfulness, as they are also in Ideality. The American Indian's forehead is characterized by narrowness in the upper part, while it retreats rapidly, leaving the perceptive organs strikingly conspicuous.

The size of Mirthfulness is not always indicated by the breadth of the forehead, because Comparison and Causality, when both large, may impart considerable expansion to the upper part of the brow. If, however, we take the center of ossification in the frontal bone, which is also the center of Causality, and observe the expansion of the head outwardly from that point as well as the distance of the region from the opening of the ear, being careful to allow sufficient space for the development of Causality, we shall be guided to a correct estimate of the organ.



CHAPTER VIII.

THE ORGANS OF THE SOCIAL AFFECTIONS.

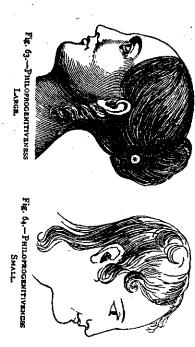
AMATIVENESS,

The most careful researches have indicated the cerebellum as the seat of the procreative instinct. The position of the cerebellum is shown in Fig. 11 lying directly under the posterior lobes of the cerebrum. (See also Fig. 17-1). Its size is measured by the peripheral expansion of the cranial parts below the occipital spine and between and backward from the ears.

the other hand, it exerts a pleasing and refining influproud, irascible, and anti-social principles of our nature in unamiable trait of character. Its action softens all the the contrary, that the want of some feeling of this sort gross or offensive to the most sensitive delicacy. So far the other. "In this quiet and unobtrusive state of the awakening in each a kindly interest in all that concerns ence upon the minds of the sexes in their association; this faculty there is nothing that is base or lewd. On is the function of Amativeness to inspire the sexual feeling tinuance of animal life in its successive generations, and it wherever it appears is a very palpable defect and a most feeling," says Mr. Scott, "there is nothing in the least incident to such continuance. A faculty or disposition is obviously essential to the con-In the normal activity of

ber of her family." bestowed longest and most intensely on the feeblest mento other individuals; and her solicitude and affection are months of its existence when it presents fewest attractions mother dotes with fondest delight on her infant in the first

of Vienna who loved her husband tenderly, but who sent organ even in women. men, and in the females of all animals than in the males. There are, however, notable instances of deficiency of this This organ, as a rule, is much larger in women than in Dr. Gall relates the case of a lady



they had occasion to examine. twenty-five out of twenty-nine infanticides whose heads seeing them every day and taking charge of their education. tion toward her offspring, and was somewhat ashamed of to whom she gave birth and for years never asked to see Drs. Gall and Spurzheim found the organ deficient in them. She was unable to account for this want of affecfrom home as soon as they were born all the nine children To satisfy her conscience, she insisted on her husband

The skulls of the Esquimaux present a great prominence

manifest toward their children. Captain Parry says, in speaking of these people: "Nothing, indeed, can well exmade mention of the extreme ardor of affection which they in the region of this organ, and many Arctic travelers have and this trait in their character deserves to be the more cced the kindness with which they treat their children; one which they possess." insisted on because it is in reality the only very amiable



Fig. 65,-A NATIVE OF ZANZIBAR

tation of this faculty by this people. He says that "While without the mercenary hope of some speedy retribution, you will scarce find a Greenlander do good to one another from it than there are among other nations. A mother tween parents and children and the many passions arising there are, on the other hand, traces of a stronger love be-Crantz's testimony is equally strong as to the manifes-

can not suffer her child to be out of her sight, and many a mother has drowned herself because her child hath been drowned."

Like the inhabitants of the Arctic zone, the negroes of the torrid are remarkable for their parental affection, and gation or fullness. On the other hand, some of the uncivilized tribes show a decided lack of consideration for their young. Rev. J. G. Wood states that the native Sandwich Islanders are indifferent to their children, often leaving skull of this race the organ of Philoprogenitiveness is but pared with its development in the negro.

Dr. Spurzheim, in his discussion of the anatomical relation of this organ, says: "In mammiferous tribes the cerebral crura are evidently divided into two parts, namely, an anterior and external and a posterior and internal mass; two superficial furrows mark their limits respectively. They bear no regular proportion to each other in the human kind. The anterior and external portion composes animals, the posterior is by much the more considerable portion of the two."

Dr. J. P. Brown argues from this as follows: "Now, since it is anatomically certain that these posterior and internal divisions pass on to form the posterior lobes of the brain after having acquired a great augmentation of bulk in their passage through the thalami, and as these divisions of the crura and also of the thalami are proportionately much larger in the lower animals than the anterior, which get to form the frontal and superior lobes, it follows that these lobes which are supposed to be wanting in these

creatures must not only exist, but be even larger in relation to the anterior and superior portions of the brain than is the case in the human kind, wherein the anterior divisions of the crura compose at least two-thirds of their whole bulk. These anatomical facts explain the relative superiority as to size of the frontal lobes of the brain in mankind and their relative inferiority in the brains of all the lewer animals, not excepting the orang-outang, chimpanzee, or gorilla.

"But the presence of these unequal divisions of the crura can not belong to mammiferous animals alone, for birds and reptiles possess the crura, and also parts closely attached to these, which Spurzheim positively avers to be strictly analogous to the thalami and corpora striata. The posterior lobes of the brain, of which the larger divisions of the crura are the nucleus in animals that suckle their young, must, therefore, exist in birds and other animals that are not mammiferous. A similarity of function in all of them must be the necessary consequence, and long experience proves infallibly that the degree of ardor evinced by animals in taking care of their young depends upon the greater or less development of the central part of the posterior lobes of the brain."

Even birds exhibit a marked disparity in this feeling. The cuckoo lays her egg in another bird's nest and takes no further care of it. The skull of the cuckoo is about the same size as that of the partridge, which is always most solicitous for the welfare of her young; but there is a marked difference between the two skulls in configuration of that part in which the posterior lobes lie. In fact, there is a palpable depression in the skull of the cuckoo and a marked protuberance in that of the partridge in that part of the head which lies immediately above the cerebellum.

Several interesting cases of disease in this organ are recorded. Dr. Andrew Combe mentions a patient, who, during a temporary alienation of mind which lasted for three days, expressed continual solicitude for her children; imagining that they were in distress or murdered, carried away and exposed to every calamity. She complained on recovery of having had a pain in the back part of her head; and in indicating the place, laid her finger on the organ of Philoprogenitiveness.

INHABITIVENESS.

The discovery and location of this organ are due to Dr. Spurzheim, who was of the opinion that some space in the





Fig. 67.—INHABITIVENESS LARGE. Fig.

Fig. 68.—INHABITIVENESS SMALL.

occipital lobes on the mesial line between Philoprogenitiveness and Self-esteem should be allotted to it. (See Fig. 17-4). Mr. Combe concluded from a series of observations that a part of the space, at least that bordering on Self-esteem, was the organ of a faculty which gave a tendency to concentrate the mind within itself, and to give continuity to impressions, and deeming the evidence in

favor of Dr. Spurzheim's discovery insufficient to warrant the acceptance of Inhabitiveness as an independent organ, did not include it in his classification. We are of opinion that the organ is fairly demonstrated, and entitled to be accepted by mental philosophers even in preference to Concentrativeness, although the latter has the support of so acute a reasoner as Mr. Combe. Our reasons for this opinion will appear when we come to discuss that faculty.

The function of Inhabitiveness is to give a love of home, or an attachment to the place where one was born or has lived; since all men can not inhabit one place, or choose their abode in the most favored localities, it contributes to contentment and satisfaction with our dwelling place, although its location may possess many positive disadvantages. A great English poet* writes:

"The shuddering tenant of the frigid some Boldly proclaims that happiest spot his own; Extols the treasures of his stormy seas, And his long nights of revelry and ease. The naked negro, panling at the line, Boasts of his golden sands and palmy wine, Basks in the glare, or stems the tepid wave. And thanks his gods for all the good they gave. Such is the patrior's boast, where'er we roam—The first best country ever is at home."

This faculty is not only manifested by man, but by nearly every variety of animals. Birds return to the same spot, year after year, to occupy the same nest, to deposit their eggs and to rear their young; and when the chilly winds of autumn blow, they fly away again to their winter home. Even fishes, after spending the winter in the trackless ocean, make their way back to the same stream in which they were hatched, or where they have deposited their eggs.

^{*} Pope. " Essay on Man.

CHAPTER XI.

HOW TO EXAMINE HEADS.

In the analysis of the mental faculties which we have just concluded, we have indicated the location, anatomically and otherwise, of the several organs. For the assistance of the student in his examination of the living head, we deem it fitting now to indicate a few points of departure by which the location of the organs may be ascertained.

easily determined. Again, starting from Veneration, and the occipital spine, at which Philoprogenitiveness is situpass over Firmness, Self-esteem, Inhabitiveness, and reach following the middle line of the top-head backward, we situation of the perceptive faculties respectively may be nose. Taking now the superciliary ridge as our guide, the next Individuality, situated directly at the root of the uality-which occupy the middle of the forehead-and down the center of the forehead, Comparison and Eventness, Sublimity, and Hope. Following the median line succession Destructiveness, the back part of Acquisitive-Nature are passed over; and then, in order as we proceed from the fontanelle forward, Benevolence and Human seen, the organ of Veneration is located, will pass over in proceeding from the sutures, and at which, as we have usually indicated by some bony roughness or irregularity of the two parietal bones with the frontal bone), which is tanelle (or the place of common junction in the top-head point, and a line traced from that upward to the great fon-The opening of the ear is taken as the general starting-

cretiveness lies between Cautiousness and Destructiveness, roidal or convex mass, much apparent irregularity must resurface the position of organs occupying places in a sphecranium of the anterior and posterior fontanelles, the mas sult. The student should fix in mind the locations on the membered that in attempting to represent upon a plane to as a guide in tracing their relative situation, it being regans just named, may be easily determined from their reness, Destructiveness, Alimentiveness, and some of the orand back of Acquisitiveness. The locations of Vitative-Combativeness, and the lower margin of Friendship. iveness, Acquisitiveness, the upper part of Destructiveness in Philoprogenitiveness, just above the occipital spine, will other line traced from the center of Eventuality to a point Sublimity, Ideality, and Mirthfulness on the other. Anbetween Veneration and Benevolence on the one side, and and Hope, Marvelousness, Imitation, and Agreeableness, between Firmness and the forward part of Cautiousness; cupied by another range of organs, viz.: Approbativeness, on this line and those on the mesial line of the head, is ocover in succession Sublimity, Ideality, and Mirthfulside-head, at the centers of parietal ossification, or upward lation to the ear. The diagram, Fig. 17, may be referred pass over in succession Locality, Time, Tune, Constructhorizontally from Cautiousness to Causality, it will pass and a little backward from the ears. If a line be traced ality and Cautiousness are two organs whose location may between Cautiousness and Self-esteem; Conscientiousness, each side of Comparison, and the latter in the posterior be easily distinguished, the former being situated at the ated. Below this last organ we find Amativeness. Causfrontal eminences in the upper part of the forehead, on The space upon the top-head, between the organs

toid processes, occipital spine, parietal eminences, frontal eminences, superciliary ridges, and zygomatic arches, and observe the relation which certain organs bear to them respectively; he will thus be greatly assisted in determining the location of the others and their degree of development.

A good phrenological bust, having the organs marked on one side, and the different regions of the brain on the other, will be found an almost indispensable adjuvant, since the organs differ in form and extent, and these qualities can be best indicated on a bust.

That sharp critic in mental philosophy, Alexander Bain, observers with respect to the importance of a large brain. There appears to be little difference of opinion now among ively accord to them positions of influence and authority. and the ease with which they can sustain large respensi with their power. The comprehensiveness of their minds, ence in society. Men of large brain readily impress us force which give to the large brain its commanding influerate volume, yet it will fail to manifest that power and mind may result from the great activity of a brain of modbilities, inspire us with confidence, and we almost instinctthe other hand, although keenness and even brilliancy of is an indispensable requisite to great mental power. On be considered in estimating character from external forms the effect of size, we may rest assured that a large brain importance to consider well the conditions which modify power, demands attention; for while it is of the greatest ple that size, other things being equal, is the measure of is the general size of the head. The fundamental princi-An Illustration. Given a subject, the first matter to

"It can not be maintained that size is the only circum-

stance that determines the amount of mental force; quality is as important as quantity, whether in nerve, muscle, or any other portion of the human structure. But just as largeness of muscle gives greater strength of body as a general rule, so largeness of brain gives greater vigor of mental impulse."*

Dr. Delaunay, an eminent French physiologist, says in a recent paper: "Bismarck and Moltke measure more around the crown than the Emperor William. Inferior races have smaller heads than Europeans." In our intercourse with men of small brain, on the other hand, the want of commanding force of character will be felt. They may possess talent in some respect which will excite our admiration, and we may defer to their judgment in matters which lie within the range of their special talent, but they rarely impress us with confidence in their capability as leaders and directors of affairs of importance.

The size of the body, also, should be taken into the account in estimating the general power of the mind. Into this the matter of Temperament necessarily enters, as has been shown in the chapter "On the Temperaments," and the proportion of the mental, motive, and vital elements in the organism should be carefully estimated. The body is the source whence the brain is nourished, and if it be feeble or exhausted, it must fail to sustain properly the brain in its activity, and the mental manifestations are fitful and weak in consequence. The premature decay of many men of brilliant intellect lies just in this want of balance between the physical and the mental powers. Their pronences to mental activity causes the brain to consume the vitality of the body faster than the organs of nutrition can

^{• &}quot;T) e Senses and the Intellect," p. rt.

poriginal powers of the mind; but our philosophy teaches could not occur, for it would then be capable of recalling colors, but a poor memory of tunes; a good memory of known that an individual may have a good memory of and is not itself a distinct power of mind. For it is well a term applicable to nearly every faculty of the intellect, common to all the intellectual faculties. Memory, also, is an object which is naturally adapted to excite it to activity. been a part of the mind's experience. with equal facility, every class of ideas which had once memory a separate power of the mind, these phenomena places, but a poor memory of dates; a good memory of faces, but a poor memory of names; a good memory of This mode of action is properly termed conception, and is sponding with its function without the visible presence of perception. Each of these organs, in like manner, when arrangement of its parts; Calculation, their number; and many different faculties. The organ of Form, for instance, ception, conception, sentiment, memory, judgment, etc., as computation as original faculties of the mind, nor as detacts, but a poor memory of principles or theories. Were internally active, may present to the mind ideas corretinct modes of mental activity may be correctly termed Locality, the place which it occupies. Each of these dismagnitude; Weight, its density; Color, its hue; Order, the enables us to perceive the shape of an object; Size, its that these are only modes of mental activity common to pending upon distinct cerebral organs. They treat of per-

Now it is clear, if the phrenological theory be the true one, that any rules laid down for the cultivation of perception, conception, memory, etc., as primitive or independent faculties of the mind, must be exceedingly partial and indefinite. If a metaphysical professor were to say to his

ception is weak; in order, therefore, to strengthen it, please and melody might be excellent. ity, he might enter upon the improvement of his defective give it exercise," the pupil would be at a loss to know pupil, "Your faculty of perception, or your faculty of con and circumstances would be remembered with difficulty; might find that he could easily recall principles, while facts might be imperfect, his perception of harmony in music him, together with the principles which govern their activlogical theory of the organs and faculties were explained to where to begin, or how to proceed. But if the phrenocause scarcely more than hypothetical-method of mental other original faculties of the old systems of mental phifaces and names of persons would be retained with diffithat while being able to recall dates and figures easily, the of the places which he had once visited might be weak; that while his verbal memory might be good, his memory that while his perception of forms, proportions, or colors perhaps, that his deficiency in perception was only partial; mental faculties with intelligence. He might then find, impracticable results which flow from an imperfect—belosophy, and serve to illustrate the partial, unreliable, and These remarks apply with equal force to many In memory, also, he

APPLIED IN THE EDUCATION OF CHILDREN

Turning our attention to the propensities and sentiments, we find that our philosophy furnishes equally precise and practical information in regard to the training of the disposition and the development of character. Many fond parents refrain from correcting their children in the early period of their existence under the impression that they are too young to appreciate moral training, and that when

they become older, their intellects will enable them to distinguish between good and bad conduct; and that then they may be addressed, and a reform effected, through the reason. But our philosophy teaches that while the intellect may exert a reforming, because enlightening, influence over the conduct, its power to do so depends in general upon its development as compared with that of the propensities and sentiments. Phrenology refers the violent temper, the stubborn, willful, and perverse disposition, the tenders to deceifulness, etc., to the primitive faculties of the mind, and shows that in order to modify the disposition, the material organs through which the faculties are manifested must be reached, and our influence exerted directly on them, either to restrain the bad or to call forth the good, in accordance with the laws of their organization.

faculties may be educated, and that young children show "Let it not be forgotten," writes Spurzheim, "that from veloped to enable it to judge wisely in regard to conduct. and Firmness may be very influential elements in the dischild's existence, while Cautiousness, Approbativeness, ness come into activity almost at the beginning of the the earliest age, the feelings as well as the intellectual position long before the intellect has been sufficiently de-Now, Alimentiveness, Combativeness, and Destructivetion, of Combativeness; food, of Alimentiveness, etc. tion, just as a muscle grows in size and power by exercise. and by this activity it grows in strength and facility of aclants of Cautiousness; praise, of Approbativeness; opposi-Thus, danger and objects of terror are the natural stimujects which, when presented to it, excite it to activity, mental organ is naturally related to a certain class of ob-What these laws are may be easily apprehended. Every

no less difference in their characters than in their talents. They are patient or obstinate, indolent or lively, timid or courageous, attached to, or careless about others," etc.

If, therefore, parents allow the propensities of their children unrestrained activity during their infancy under the belief that when they are older, they may be reasoned out of their evil tendencies, they commit as great a folly as would the husbandman who should allow weeds to grow up among his corn, under the impression that when it was well grown, it would better bear their eradication. The weeds smother the corn and obstruct its growth from the very beginning, and the longer they are allowed to grow, the more difficult becomes their extermination.

within reasonable bounds, it is clear that it will be likely greater amount of food than is necessary to supply the the child's existence it may give a desire for a much degree of energy, so that in the very commencement of transmitted from parents to children with an excessive ern every part of the body, is most surely liable to be cordance with the laws of hereditary descent, which govmaintenance of the physical system; but this organ, in acguide as to the kind and amount of food necessary for the ment, and when instructed and unperverted, is a reliable into activity. It responds to the body's need of nourishmentiveness is naturally the first propensity which comes naturally adapted to exercise authority over them. Alineeds of the system. fore the intellect and moral sentiments, as the powers physical restraint; second, a withdrawal from them of pensities of children three methods may be pursued: first their natural stimulants; and third, their arraignment be-Three Methods Indicated .- In the training of the pro-Unless this desire be restrained

^{* &}quot; Education Founded on the Nature of Man," J. G. SPUNZERIM.

occupied only by the moral sentiments. such persons, the current payment for obedience, and thus of the appetite, but even make it a means of securing the high place of a motive to conduct, which should be the gratification of an inferior propensity is trained to hold A sugar-plum, a stick of candy, or a piece of cake is, with pealed to on every occasion as a chief means of discipline. their obedience. They quickly perceive what a powerful they not only allow their children an injurious indulgence influence it gives them over their children, and it is apspired by the unregulated activity of Parental Love, that biased in their judgments through a foolish fondness inevil and unhappiness to its possessor. Many parents are so indulgence, and thus becomes more and more a source of organ itself increases in size and vigor by unrestrained system with a superabundance of food-material. ing on the stomach an excess of work, and clogging the to work much injury to the health of the child by imposignorant in regard to proper methods of training, and so

Furious Anger arises from the unrestrained activity of Combativeness and Destructiveness, while Self-esteem and Firmness are the sources of a willful and stubborn disposition. If a child be allowech uncontrolled liberty of action, and is permitted to have its own way and to carry its point in the face of opposition, these organs may acquire a fearful ascendency in its disposition, manifesting themselves in a pettish, willful, and headstrong temper, and in an impatience of restraint which is the occasion of the most violent and ungovernable passion. Some children, from a larger original endowment of the organs on which these characteristics depend, are naturally prone to a high temper, and an obstinate, headstrong disposition. These must be treated with special care. All manifestation of

balky horse is a good illustration of this disposition. Whipmen contending over trivial matters, actuated by no other born, while kindness will often render him tractable and ping and harsh treatment only make him the more stubimportant compared with the expense of gaining it. A principle but a determination not to yield a single point so and haughty manner exercised toward an individual natteristics which it is their function to manifest. A proud in expensive litigations in which the stake at issue is undividual calls up the same trait in another, as is abundanturally excites his pride in return. Stubbornness in one ina law of the mental organs that they are excited to activity passion in dealing with them should be avoided; for it is by the manifestation in their presence of the same characlong as their opponents refuse to do the same, and engaging ly illustrated in the common affairs of life, where we see

In dealing with a headstrong and passionate child, the parent should be gentle, firm, and self-possessed. His manner toward it should result from the dictates of the intellect and the moral sentiments. The manifestation toward it of these higher faculties will naturally excite to activity the corresponding organs in the child; while the absence of passion and unreasoning obstinacy in the parent's conduct offers no excitement to the inferior faculties of the child. Such treatment will be conducive to that true mental development in which the intellect and moral sentiments exercise the authority which rightly belongs to them over the other powers.

An illustration of wise management on the part of a mother is seen in the following extract from a letter received lately by a well-known teacher of Phrenology in New York from a lady residing in the West, viz:

"I have been at Mount C., Mich., taking baths, and the lady I boarded with told me about taking her little child, then four years old, into your office for an examination. Among other things, you said, 'When this child has fits of passion, don't punish him, but draw his attention as quickly as possible to something else.' The child was subject to most violent fits of passion; would upset and throw everything he could lay his hands upon, although he knew he must restore things to their proper places in the end. The way you suggested was one she had never tried, and she found it to work admirably.

"Sometimes she would pick up a book and begin to read poetry, of which the child was very fond, and soon he would steal up to her side and lay his head on her shoulder, completely subdued. At other times, and always without noticing him, she would begin to talk about some subject of special interest to him, and he would forget his rage. Patiently working in this manner, the gentle Christian mother has won her reward in one of the most dutiful, thoughtful, pleasant-tempered, and affectionate of sons. You said that he would make either a very good man or a very bad one, and now, at fourteen, he promises fair to be a very good one.

H. L. M."

Bribes and Threats Improper.—Cautiousness and Approbativeness are often developed to a prejudicial extent through wrong training. The element of fear is generally one of the most influential among the mental traits of young children, and on this account is frequently made use of as a means of discipline. Ignorant nurses and servants, as well as ignorant or injudicious parents, are prone to make use of the easiest means of governing children. They purchase obedience by bribing the appetite or

stimulated to further excesses of activity. Cautiousness is even of insanity. times proves the cause of morbid nervous conditions and exceedingly prejudicial to their physical health, and someproduced on the nervous sensibilities of children which is of Cautiousness is developed. A severe strain is thus often the rats or a big dog to devour them, will excite terror in most absurd stories of goblins and witches; and threats dren are exceedingly credulous. They readily believe the perhaps more frequently abused in this way than any other developed, and should have their activity repressed, are hobgoblin stories. Thus the organs which are already overis too often the practice to frighten children by absurd, citing its fear through threats of terrible punishments. It by bestowing upon the child extravagant praise, or by extheir minds in proportion to the degree in which the organ heads and bloody bones, or to cut off their ears, or to cal to shut them up in the dark, where they will see raw From inexperience and undeveloped reason, chil-

Praix.—A child whose Approbativeness is largely developed, will be very sensitive to praise and to blame. This faculty, indeed, is seldom deficient in children, and is frequently rendered excessively active by injudicious praise. A child is often flattered by its parents through over-fondness. It is flattered by visitors to please the parents, as well as to gratify the child. Whatever "smart" thing it says or does is rehearsed in its presence, and its improprieties are even excused on the score of its age or the discovery in them of some element of supposed talent. Under such constant stimulation, the love of praise soon comes to be the chief motive of the child's conduct, and unless the intellect and moral sentiments are powerful enough to rise above this false training, vanity and a vulgar love of

to mold a colossus out of the material of a pigmy. may not be found wosting our resources in a futile attempt her in the production of perfect mental farms, and that we which nature has bestowed, that we may co-operate with means in our power in ascertain the qualities and faculties upon it. Hence the importance of making use of every and in accordance with the laws which she has imposed downcest. It can not create a single faculty; it can only work on the uniterial which mature has already supplied, itmited to developing what already exists as a native enmay secomplish much for any one, but its influence is artist. With the living luman subject, however, the law of his being determines the form without. Skillful training the beauty of the image will depend upon the skill of the divines, or men of science. The sculptor can chisel the structors to be developed into successful doctors, lawyers, and so they place their children under the tatelage of ina sculptor would carre so image from a block of markle; molded into any form that their funcy may distate, just as inanimate marble into any form which may be desired, and faculties many parents seem to think that a child may be calling in accordance with his natural endowment. Through ignorance of physiology and the constitution of the mental interpreted by a competent phremping st, and choose his life putantit, he would listen to the voice of science as many an individual be spaced if, when about to choose his What severe and mortifying disappointments would not other with the critical and dispassionate eye of science | enabled to dissect and analyze the mental crists of the unite in macrimony were laid open to view, and each were might be avoided if the real character of those about to sources of their conduct. How much detremine infelicity

To the teaches, the lawyer, the ductor, and the elergy

man, a knowledge of this science will be found especially useful. The peculiar rocation of the teacher is to train and develop the youthful mind. In order to be successful in this, it would seem to be no take highest importance that the clements, or faculties, of the mind should be definitely known, and that the laws which govern their activity should be thoroughly understood. Children differ greatly in their mental constitutions, hence the same modes of instruction and discipling can not be employed with equal success in all cases. The teacher should be able to estimate and appreciate this difference that he may adapt his method of instruction to it, and thus act in harmony with nature, and not in antagonism, as one is likely to do who is not conversant with the laws of human organization.

Much of the lawyer's success depends upon his ability to read and comprehend the antives or sources of hurant conduct. He should be able to discern readily the faculties which are most influential in the character, that, like a skillful general who knows thoroughly the position of the energy, he may determine when and where to move his forces that they may prove the most effective. Patrick Hebry's success at the bar was due, in a large measure, to his intuitive knowledge of human nature. He studied the faces of jurymen that he might discern the effects of his arguments, and learn how his appeals should be arged in order to win them over to his views.

The clergyman, for many reasons, will find a knowledge of this science highly advantageous to success in his swocation. An individual's religious character is not something which is stemped upon his life by external influences, but results from the calling into sativity of powers which the Creator has already implanted within him.

"Besetting sins" result more from the unregulated activity

of the physical and passional elements than from the influence of circumstances. To teach his people how to overcome these, as well as how to develop their moral faculties, a correct theory of mind is indispensable.

carry on farming with my appropriate implements destroyed to proceed effectively in my vocation as I should to treating of mind, I should be as much at a loss how stances. Without Phrenology and the aid it gives me in such rude tools as might be possible under the circumchinery, and leave me, despoiled and desolate, to construct they could carry off, and burn my books, tools, and masuppose some night pirates should land and rob me of all raising crops and manufacturing other useful things; and nently cut off from obtaining anything from the rest of the world, but having all the tools and machinery for "Suppose I were on an island in mid-ocean, and permahis profession as a preacher, and he promptly replied: once asked whether or not Phrenology had aided him in One of the most eminent of American pulpit orators was

These remarks are applicable in a greater or less degree to every pursuit where mind comes in contact with mind. To know how to meet men, to avoid exciting their disagreeable characteristics, and to call into activity their kind and amiable qualities, will greatly facilitate our intercourse with them, and prove highly advantageous in promoting our individual interests. Any philosophy which professes to unfold human nature as it is, and to lay open the secret springs of human conduct, is surely worthy of our consideration. And in proportion as such a philosophy is practical and adapted to the every-day needs of men must it be valuable.

The venerable John Neal, long known among American

authors of eminence, wrote the following emphatic statement a few years before his death:

"I am asked what I have to say about Phrenology in this age of the world. To which I answer, first, that I look upon Phrenology as now understood, by experts and professors, not only as a science worthy the name of science, but as one of the greatest discoveries, and one of the most beneficent and useful, if rightly employed, that was ever made by mortal man. There was a time when it would have passed for inspiration. But what has it done —what is it doing for mankind? Much every way—infinitely more than the people have an idea of. It is modifying our whole system of education. It is changing all our notions of insanity, and leading to new treatment in our hospitals and courts of justice."*

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^{*} AM. PHRENOLOGICAL JOURNAL, Sept., 1866.

world and see, and judge for yourselves whether it be true. want you to hear what I have to say; and then go into the not want you to believe what I propose to you; I only shortly before his memorable death in that city: "I do on one occasion, he said to an assembly in Boston, Mass., would address language similar to that of Spurzheim when, nology; but if it be true, you can not learn it one minute If you do not find it true to nature, have done with Phre-

ask Quetelet, if temperaments decide nothing? or if there their tough organization. Ask Spurzheim; ask the doctors; our most eminent essayist, Emerson, will recall many reform. The reader who is familiar with the writings of cal appositeness where it concerns education and moral sibility of each passenger, in the facial angle, in the comlife? At the corner of the street you read the posescape from his ancestors, or draw off from his veins the be anything they do not decide? How shall a man ted in this book. For instance, "People seem sheathed in passages in which doctrine is introduced like that enuncialogical truth now pervades it, and is essential to its practiblack drop which he drew from his father's or his mother's erty, from father to son for a hundred years." † or a chemical discovery from that jobber. Ask the digger not make cashmere, as expect poetry from this engineer, as well ask a loom which weaves huckabuck, why it does plexion, in the depth of his eye. His parentage determines his brain have been pinched by overwork and squalid povin the ditch to explain Newton's laws; the fine organs of No matter what the department of literature, phreno-Men are what their mothers made them. You may

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sideration of Phrenology—and he discusses it as a metamental introspection. opinions which appear to be founded chiefly upon his own so much in their definitions and reasoning, and formulates merely adopts the method of old philosophers who differ activity to a faculty or organ, and often it seems to us he occasion here and there to criticise the Phrenology of Mr. be "a science of character."* As a metaphysician, he finds ological system, and is at least willing to admit its claim to physician—as a rationalist, not as an observer of the actual Combe, in his ascription of certain properties, or modes of jective data-yet he finds much to approve in the phrenphenomena of mental action; not as a recorder of ob-Mr. Alexander Bain has devoted a volume to the con-

writings and sayings of those who supply our reading matonstrations may be scarcely found outside of phrenologduct of men which are referable to standards whose demabounds in interpretations of the appearance and conprevailing belief of the people in a science or system of woman; when artists, poets, and essayists illustrated the istics symbolized or indicated by face and form in man or of her people, contained frequent allusions to the characterthousand years ago, when letters reflected the high culture terms and philosophy of Phrenology has become in the to show by a few examples how very common the use of the and ipsissima verba of Phrenology; but most are contented physiognomy: so to-day, our best general literature ical formulas. Many authors hesitate not to use the terms Our intention in this concluding part of our treatise is Just as the books and publications of Greece, two

 [&]quot;Biography of Spurzheim." By Nahum Capen, LL.D., p. 147. Ed. 1833.
 "The Conduct of Life-Fate." By Ralph Waldo Emerson.

^{4&}quot; On the Study of Character." Alexander Bain, M.A., p. 24, et. seg. Ed. 2862