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Multiplication of the political restriction of the principal of the princi Anny own of the the printiple served the situe in mit to be and the serious of the serious of the serious of the serious in the serious of the serious in the serious of the serious in the serious of th P. 167 Sense of authinity + idultity (self) bridger paint of unanscionarion + sup. --- appuit BULLOUNDER SHOWN + SHOWN SHOWN BULLOUNDER DEPOSITION BULLOUND BURNOUS MANNES AND MANNES MANNE Investigations on the Human Brain after Commissural Section. - This work has been

it is my thesis that the extraordinary implications of this work for the mind-brain problem

published and discussed on many occasions by Sperry and his colleagues (15-21), but

The betatited to P.170 These split-brain cases have been systematically investigated by in a

the climate of opinion is not yet ready for these most surprising and revolutionary results. have not yet been fully realized by philosophers and scientists. This has occurred because

Eccles, J.C.

never derives any conscious experiences from the "goings-on" in the minor hemisphere in al of its operative procedures. ((How does he know?)) In fact, as stated above, the eliminate all inadvertant cross-cueing. ... To me the outstanding discovery in the in-P.170 (cont.) most skilled and patient manner by Sperry and his associates who have speech hemisphere, in respect to conscious experience. The friends and relative of the vestigations is the uniqueness and exclusiveness of the dominant hemisphere, that is, the patients. Great care has been exercised throughout the experimental design in order learning in new situations. Despite all this apparently intelligent behavior, the subject by the operation, despite the elimination of the whole performance of the right hemisphere subject recognize his expression in language and his memory as being not greatly disturbed fires" for match. In this manner the minor hemisphere can... (also),...display a simple discloses a language comprehension, e.g. "measuring instrument" for ruler, "used for lighting icommon objects.) This recognition transcends a simple name-object identification in that if respect, the minor hemisphere is deficient... (Word recognition is limited to names of left hand, all unbeknown to the subject who sees it with amazement and chagrin. ... In other The unity of self-consciousness or the mental singleness that the patient experienced beble to see the superior stereognostic performance programmed by the minor hemisphere to the supremely intelligent animal brain with a refined stereognostic performance, but none of the fore the operation has been retained, but at the expense of unconsciousness of all the the goings-on in that hemisphere gives conscious experiences to the subject. It is remarka. amassed a wealth of data that has been confirmed again and again in the sequence of hemisphere. This minor hemisphere continues to perform as

subject disclaims responsibility for these appropriate and intelligent actions programmed subject can not explain. (Eccles thinks that's surprising.) - I now formulate the radical subcortical pathways leads only to vague experience of discomfort or embarassment the the right H. claim responsibility if it can't talk!!!)) - (P.171) Poor transmission through from his minor hemisphere. ((How can diagram is in "The Self and its Brain". It shows the mind outside the brain and inter-acting only with the left hemisphere.)) P.172 It is, of course, not implied that the conshemisphere did not directly give the subject any conscious experiences, a hypothesis that I tentatively suggested several years ago. (28) Ref: to The Brain and the Unity of Conshypothesis that, even before section of the corpus callosum, the "goings-on" in the minor hemisphere resembles an animal brain, though its performance is superior to that of the is prevented from communication with us because it has no speech. I would agree with thi regard the minor hemisphere as having a status of a very superior animal brain. .. no conssubdivisions of the brain and also to and from the outside world. ((I think the same cious experience"(1965). In order to make this hypothesis of mind-brain interaction exstatement if it would be linked with the further statement that in this respect the minor ciousness of its own. Sperry postulates that there is another mind in this brain, but it i cious experience. Moreover, there is no evidence that this brain has some residual conscious self is hovering in space above the dominant hemisphere. ... On this hypothesis we ca plicit I present a diagram (Fig. 7) that portrays the flow of communication between major the left H. know what the right H. did, and how can

and consciousness in the manner in which I have experiencing being. We therefore must be agnostic about the question of mental acticities input, but could not say correctly what he wrote. Left H. had remained speech centre. Communication at different level. Lower than right H. performance of Sperry's man unique. Developed rapidly during last 2 million years. No higher apes can rale bigger on the left.) Finer diff. await anatomical structure in the left H. that is not matched in the right H.? - (Planum Tempohis hypothesis. much of the fact that even persons who are lefthanded are mostly left H. dominant, except when there was a braininjury to the left H. in early childhood.) -- (That's in P. 169) -shortly if the injection is administered to the minor hemisphere - E. thinks that proves a rare anomality. ... Serafetinides showed that loss of consciousness problem of what would happen if there is P.173 again: Moreover, the most searching investigation discloses that the minor hemisinguistic level, so it is not possible to test for the possibility of some for some minutes in the dominant hemisphere after sodium a... injections - but only very P.172)(Cont.) highest anthropoids. In both of Loss of consciousness occurs only when both h. are affected. - // Question: Is the conscious mind of the subject in respect either of boy with birth defect in left H. could write correctly with left hand to does not have in the smallest degree this amazing (Results were criticized and are unrepeatable). More evidence needed. pect either of giving or receiving. ... Acute bilateral speech, as has been claimed to occur electron-microscopic techniques. -- Speech in defined it at the beginning. (E. makes these cases we lack communication in a property of being in liaison with (and aphasia) occurs consciously Work. speak. there some

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Computer-like	Arithmetical and	Sequential	Analytic	Ideational	Verbal	Liaison to Consciousness	Dominant Hemisphere:
Geometrical and Spatial	Holistic	Synthetic	Pictorial and Pattern sense	Musical	Almost non-verbal	No such liaison (Eccles added this one)	Minor Hemisphere:

P.174 Reconsideration of the Mind-Brain Problem. Reference to Popper's 3 worlds.

P.175 The information flow diagram of fig. 7 can also form a background to the recent conceptual formulations of Sperry in mind-brain interaction. In general terms he states (Sperry R.W. in perception and its disorders, Res. Publ.Ass. Nerv. Ment. Dis. Vol.48 (1970) (Perception in the absence of the neocortical commissures.) : "Conscious phenomena in this

scheme are conceived to interact with and to largely govern the physio-chemical and physiological aspects of the brain process. It obviously works the other way round as well, and thus a mutual interaction is conceived between the physiological and the mental dominant hemisphere. fied the psychoneural identity hypothesis, which has also been strongly attacked on philosophical grounds (Polton). It is demonstrated that the minor cerebral hemisphere with its tion he states: (Sperry, R.W. Psychol. Rev. 76, 532 (1969) - A modified concept of conactions. This is a view that puts consciousness to work. It gives the phenomena of consis highly functional as an important component of the causal sequence in higher level recend the phenomena of physiology and biochemistry." ... "Consciousness does do things and prestigeous position over matter, in the sense that the mental phenomena are seen to trans properties. Even so, the present interpretation would tend to restore mind to its old sciousness). "In the present scheme the author postulates that the conscious phenomena of ciousness a use and a reason for being and for having evolved. " ... In another publicaongoing activities that can be categorized as displaying memory, understanding even at a ence. In this view consciousness is conceived to have a directive role in determining the subjective experience do interact on the brain processes exerting an active causal influprimitive verbal level, and concepts of spatial relations does not give any conscious exflow pattern of cerebral excitation. "... The split-brain investigations have, I think, fals: periences to the subject, who remains in conscious liaison only with neural events in the

primitive simplicity of identification of neural activities of the brais

Evidently, the concept of psychoneural identity has lost its

approached at a new levelof understanding, the holistic approach. And this occurs in intelligent and learned activities of the minor hemisphere do not achieve liaison to the special regions only of the cerebral cortex and in special states of these regions. Morein general with conscious experiences derived therefrom. In particular, sophisticated, and hippocampal commissures. The proposal by Penfield that mental unity is achieved by further remarkable outcome of the split-brain investigations is that there is almost no ineffective, being merely spin-offs of neural activities that they cannot influence. A over, psychoneural parallelism has to be rejected, for on this view the mental states are consciousness of the subject. Moreover, as Sperry has realized, the problems have to be sphere after commissural transection. This unity must normally be achieved by the intense cross-communication at the cerebral level except via the corpus callosum and the anterior dually a more and more effective means of description and argument. are involved in the evolution of the brain that occurred as man was gradually developing h transmission to and from the centrencephalic system in the brain stem is, of course, ment of language from its primitive formas expressive cries to a language that became grawent on together in the evolving process and that from these two emerged the the cultural his means of communication in speech. One can imagine that speech and brain development impulse flow through the cerebral commissures. Evidently immense and fundamental problems falsified by the failure of any conscious appreciation of activities in the minor hemiperformance of man. Over hundreds of millenia there must have been a progressive develop-

man must gradually have become a self-conscious being aware of his own identity or selfhood. As a consequence, he also became aware of death, as witnessed so frequently and vividly in other members of the tribal group that he recognized as beings like himself. (At least a hundred thousand years ago - ceremonial burial customs.) ...development (P.176) of technolo-Paleolithic era. In the maturing civilizations the exigencies of survival were no longer dominant in the thoughts of men and the creative imagination of man could instead be expressed in literature, in art, in architecture, and in the further developments in religion, in whilesonhy and in science that are associated with his attemnts to understand the manner In this way, by forging linguistic communication of ever increasing precision and subtlety, gy that distinguishes the Neolithic age from the relatively slow development of the long in philosophy and in science that are associated with his attempts to understand the manner

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