volume signal is recorded on five channels of a fast paper recorder and FM tape recorder simultaneously. An example of one such record is shown in fig 2. The phasic activity of the PCA muscle with inspiration can clearly be seen while the interarytenoid remains relatively inactive throughout the respiratory cycle, becoming active during breath holding.

The surface electrode will be of great importance in the future study of pathological states of the laryngeal musculature as well as providing information on the neurological control of the larynx.

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Book reviews

Neuropsychology — A textbook of systems and psychological functions of the human brain by Stuart J Dimond (pp 560; £25.00) London: Butterworths 1980

This is not a textbook of neuropsychology in the sense that most clinicians would use that term. Rather it is an attempt to use neuropsychological evidence to build a set of models about the way the brain controls and makes possible a wide variety of psychological functions. The range from motor behaviour and the analysis of sensory information at one extreme, through more complex functions like memory and language, to even consciousness and the concept of "self". To say the least, the scope of the book is very wide and the goals ambitious. Stuart Dimond brings to this task the fruits of an extensive knowledge of the literature and his own well-known studies of interhemispheric processing and the split-brain. The reviewer has already found the book to be a useful source of reference on some obscure points.

The inevitable problem with a book that attempts to give an overall model of many highly complex processes is that the author is forced to speculate way beyond the immediate implications of the available data. It is impossible to do this without offending many existing theoretical susceptibilities. The overall approach assumes that the higher functions can be fairly strictly localised to a degree that would make some other authorities a little unhappy. There are also enormous philosophical complications inherent in an attempt to create a neuropsychology of consciousness and related concepts. Another problem is that the use of florid descriptive terminology can irritate and confuse rather than illuminate. For example, it is stated that the arcuate fasciculus and associated structures are "a vast organ console on which the stuff of mental life can play to produce the richly orchestrated sounds of the voice as they appear in language".

Despite the criticisms, this book will no doubt be used by many as a useful starting point to examine some topics. However, it is definitely not the book for someone seeking an introduction to clinical neuropsychology. The price is very high which adds insult to certain production errors. Page 460 is missing and this is compensated for by providing two of p 467. Plotting the classical speech areas onto a diagram of the right hemisphere is also not an action best designed to convince the reader that this is a sound way to invest £25.

EDGAR MILLER

Research in the Psychobiology of Human Behaviour, edited by Eugene Meyer III and JV Brady (pp 144, £8.50) London: Johns Hopkins University Press, 1979.

This little book contains seven papers that were delivered (along with other papers not reprinted) at the Adolf Meyer Symposium on Psychobiology held to mark the hundredth anniversary of the founding of Johns Hopkins University. The topics discussed include noradrenergic synaptic transmission, genetics of schizophrenia, neuroendocrine research in psychiatry, psychosomatic effects of learning, the classification of affective disorders. The authors, including Kety, Sachar and Roth, are all experts in their own fields. They mostly write well but, as one would expect of a symposium, do not present new material. Several of the topics have a very tenuous connection with Adolf Meyer, who had no interest in the genetics of schizophrenia or in the classification of affective disorders. Indeed Meyer must bear some of the responsibility for the neglect of these two important issues by American academic psychiatry until quite recently. The book is best regarded as a small collection of interesting accounts of research in various aspects of the biology of psychiatry. A librarian with an unbalanced budget might just buy it.

JL GIBBONS

Systemic Pathology Edited by W St Symmers (pp 2522; £35) Edinburgh: Churchill Livingstone, 1979.

This is the second, greatly expanded edition of this book. A separate chapter each is devoted to the central nervous system, the peripheral nerves and to the skeletal muscles, amounting to just over 300 pages thus bridging a gap between those popular neuropathology textbooks which always seem to have the word basic, essential or concise in their titles and the heavier, more detailed volumes. The largest contribution is, of course, on the central nervous system; here all the major groups of diseases, including neural neoplasia, are dealt with with remarkable clarity by McMenemey, and revised by the author and Thomas Smith. Cavanagh provides not only accurate descriptions of the diseases of peripheral nerves but also an insight into basic cellular mechan-