















*F—Random.* The spinules become inconspicuous, but the large random potentials persist and come from an



shifts are plotted for a number of persons of the same age.

The annual fees in India are now Rs. 100/- per month for the lower income group.



Worshiping the God of the Sun, the Inca believed that the sun was the source of all life and energy.





Fig. 1. Electrophysiological traces showing rhythmic activity before and after a stimulus.

the rhythmic activity becomes continuous before a stimulus, and then disappears as suddenly as it appeared. In other cases, the rhythmic activity continues without change after a stimulus.

When the rhythmic activity disappears as suddenly as it appears, the frequency of the rhythmic activity is increased or decreased, or the rhythmic activity is stopped.

In other cases, the rhythmic activity continues without change after a stimulus, and the frequency of the rhythmic activity is increased or decreased, or the rhythmic activity is stopped.

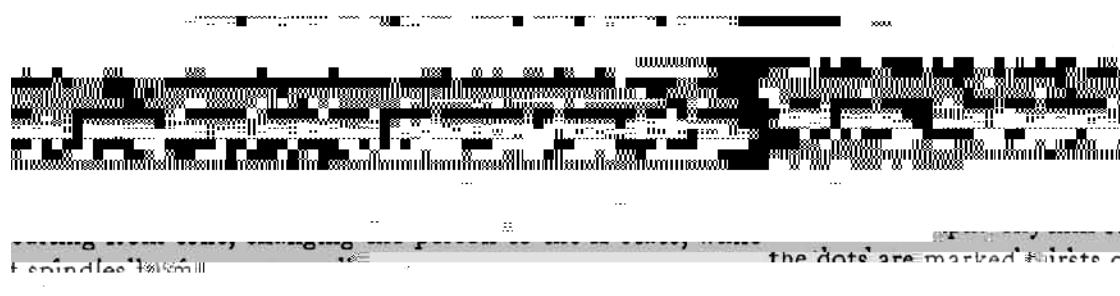
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but the exact moment will depend on the criterion of sleep. If the subject is asked to respond, if awake, to a tone signal sent in every minute, we often observe the A state to continue for 5 to 10 minutes after the subject has ceased to respond. This is similar to the recollection unit before the subject has ceased to respond in wakefulness, sometimes a response will



any number of seconds in advance of the individual. In previous experiments, subjects with no initial wake-up alarm were asked to sleep and was asked to open his eyes on a tone prepared to see him rise. In this case, he immediately responded, "I didn't



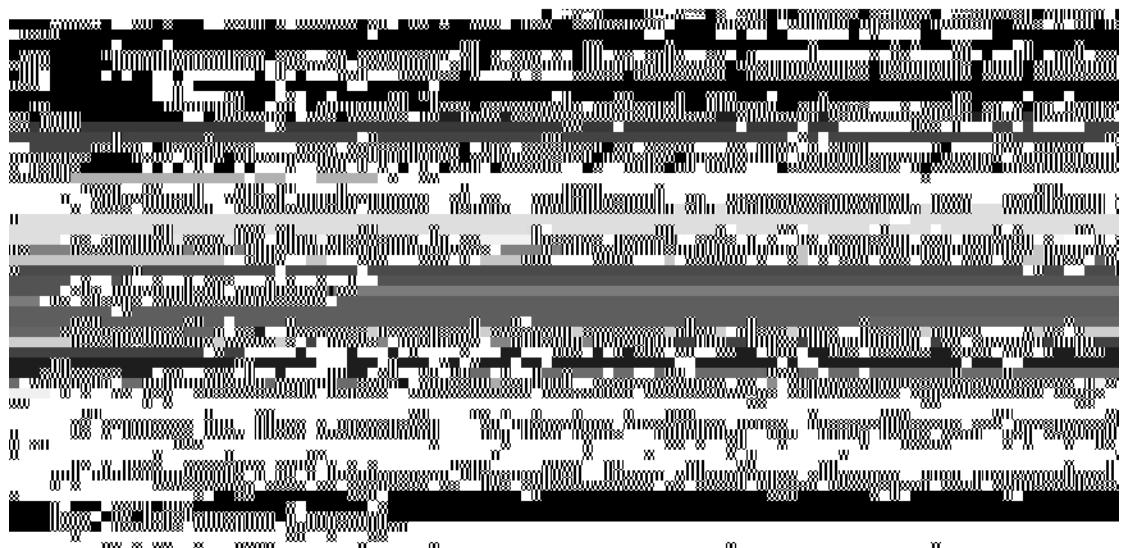


Fig. 1. Five horizontal traces showing the brain potentials during sleep.

a stimulus to which the sleeper is accustomed may act as a disturbance. A more vivid impression, however, may have the same effect.

For instance, in falling asleep in a situation in which state the subject is in changes, appearing less and less frequently as the sleep progresses, the sleeper



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in movement also occurred regularly beneath the tone when it went off, but when the C state was reenacted, still no movement occurred when the tone went off, but as



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a state as a result of appropriate disturbances; that interictal and postictal types know increasing frequency and amplitude in progressive intervals of potential under the same conditions.

The following appearance of alpha rhythm after disturbance

resembling alpha appears suddenly after 20 seconds. During this time the subject did not remember the preceding period.



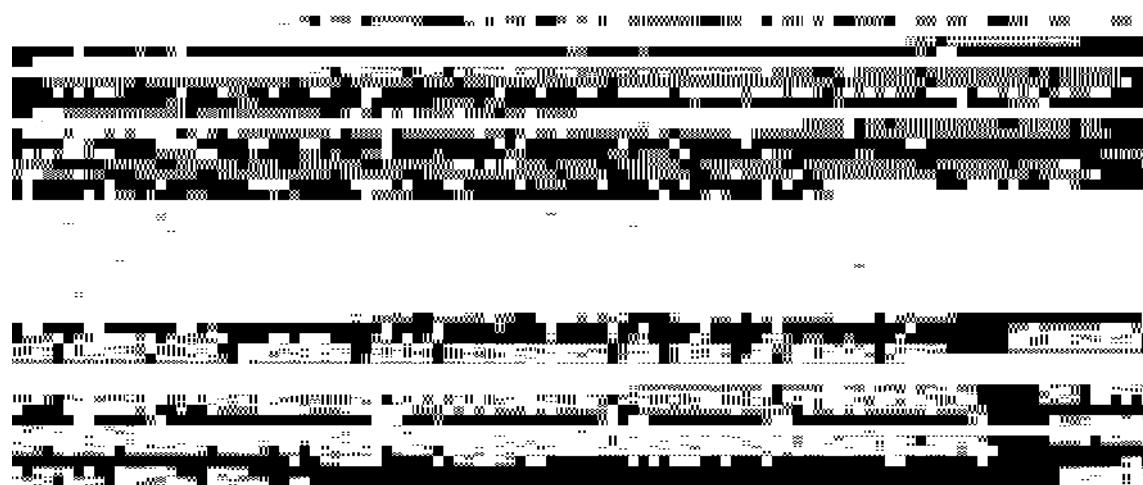
Auditory perception with different brain states changed

Received January 15, 1953; accepted April 1, 1953.

We are all familiar with the fact that we can sleep while breathing. We are also familiar with the fact that we can dream while sleeping. These two states are not likely to be associated with any unusual pattern of electrical potentials but with a state of sleep. Unfortunately we have been able to correlate a dream with the state of sleep in two instances.

In one case the sleeper was in the D state of sleep.

After the subject reported a dream involving a cut finger dressed in a hospital) with the impression that she



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