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wrong. Instead of obeying the call of appetite, as we do, and as most physiologists tell us is the only reliable guide, our hours of eating should be established in conformity with hours of the day when the body energy is rising, irrespective of appetite.

In presenting to the French Academy of Medicine the results of his researches on this subject, Professor Bergonie remarked that the way we now divide our waking hours with respect to meals is deplorable. We eat a light breakfast at 7:30, when the most marked rise of our energy demands the heaviest meal of the day. We take a heavy luncheon at 1 o'clock and a heavy dinner at 7 or 8, which are the very hours when a sharp decline of energy should forbid us to eat at all.

In the first place, rising energy is required in the performance of the digestive functions. Secondly, one of the principal objects of taking food is to supply the body with internal warmth, which is the same thing as energy. This process begins with the act of eating, the nervous system responding-during hours of rising energy-almost immediately. Therefore the two propositions supplement each other, without any interference with that other important need of food-the repair of broken-down tissues.

If we take our meals only at times of declining energy. that decline is still further marked because of the very lack of energy with which to immediately assimilate nutritive material. And that, according to Professor Bergoale, is exactly what is brought about by our present "deplorable" system of meals.

Professor Bergonie's experiments began with a systematic study of the energy expended by man during a day of twenty-four hours. He discovered that the different states of our bodily energy are marked by the clock for the reathe time of rising it is reaching its maximum. After rising the expenditure of energy is resumed, but energy continues to rise for a few hours. Shortly after rising, therefore, the conditions for taking food are the most favorable of any hour of the entire twenty-four hours.

The longest period of the day and night has elapsed since food was taken. The stomach is empty. Food is needed, and there is energy wherewith to convert it into renewed energy immediately by way of the nervous system. Thus Professor Bergonie appears to prove his theory that the breakfast taken shortly after rising should be the heaviest meal of the day.

Now comes the argument against the heavy luncheon. During the hours up to the middle of the day there is the greatest expenditure of energy. The accumulation during sleep, supplemented by the generous morning meal taken at the right time, is becoming exhausted by noon, and by 3 o'clock is at its lowest point. To eat at all during this period of energy decline would only make matters worse. and a heavy meal during those hours seriously overtaxes

But at a little after 3 o'clock the body energy begins to rise again, and by 4:30 a light meal will help along the process. But it should be only a light meal, for the completion of the day's work means that there is a small pro-

portion of energy available for digestive purposes. It appears that the very worst of our cating habits is that of taking our dinner—the heaviest meal of the day between the hours of 7 and 8. For the day's drafts on the supply of energy have left the whole body tired, with the

internal organs in no condition to convert food into energy.

Toward midnight, however, the body becomes somewhat rested. Another light meal can then be taken with advantage, because as very little energy is expended during sleep

taken when they will do the most good-according to the

investigations of Professor Bergonie. The French savant was careful to explain to the members of the Academy of Medicine that this arrangement of meals is not theoretical, but the result of practise by an entire family during an uninterrupted period of six years. From the viewpoint of perfect health he considered the test most convincing.

It will be noticed that these reported results are in sharp contrast with those promulgated by other authorities, who quite generally units in the teaching that food never should be taken without appetite. Appetite is urged as the main consideration, because when appetite is natural and normal, that is the time when there is the most generous flow of digestive juices. Does your "mouth water" at the thought of food? If it doesn't, the glands supplying the digestive fluids are not ready to pour them out. Consequently, if food is then taken into the stomach it will lie there undigestedthe most terrible consumer of energy that exists.

The books of Horace Fletcher, and the experiments at Yale University under his direction, appear strongly to fortify this argument. Not only Fletcher, but other experimenters, declare that food should not be taken except at the demands of an active, normal appetite, no matter how long one has to wait for the appetite. The whole 'fasting" cult acts on the same principle and claims astonishing results for health. The hours of meals are held to e of no consequence compared with the natural craving

Physicians quite generally condemn the habit of taking heavy meal in the middle of the day, for the reason that it is apt to be eaten hastily and that hard labor of mind or body immediately afterward further interferes with rapid and complete digestion.

Professor Bergonie is also in sharp controversy with most authorities respecting the morning meal. The latter argue, in the first place, few people have any appetite for food so soon after rising. Secondly, that most stomachs early in the morning are mere flabby, bloodless bags, incapable of carrying on the energetic work of digestion until exercise and deeper breathing than occurs during sleep have brought them back to life.

Quite possibly this condition, however, is due-as Professor Bergonie remarks-to our long-continued "deplorable" enting habits. It is natural to assume that such a revolution as he preaches could not be accomplished in a day, or a month. His experimenting family devoted six years to it. It probably is a case of "off with the old love (habit) before you're on with the new."

A year or two ago Professor Bergonie created quite a medical circles by his announcement of the results of his experiments with electricity for nutritive purposes. He had proceeded on the theory that, as the essential purpose of food is to supply the body with internal warmth, that object ought to be better gained through the medium

of electricity. He experimented upon himself, passing through his body low tension, high frequency currents. He testified to his brother scientists that the results were affirmative and conclusive-that these administrations of "electric food" actually increased the patient's weight, thus restoring lost tissue as well as supplying requisite heat and energy.