



**BROWNIE, THE MONGREL**—The mongrel dog that gave birth to cocker spaniel pups through the process of ova transplantation is shown with Dr. Leon F. Whitney who performed the operation.

Department of Agriculture officials are not so optimistic. They think it might not be practiced economically.

But it is in a dog hospital outside of New Haven that experiments which most foreshadow the future have been going on.

#### Experimentation Continues

There, Dr. Leon F. Whitney has succeeded in transplanting the complete ovary—the female sex organ—from one dog to another of inferior strain, breeding the second dog by natural means, and obtaining pure-blooded puppies of the donor dog from a foster mother. Working with Dr. Harry S. N. Greene, Yale pathologist, he found that worn-out ovaries were rejuvenated when transplanted from an old dog to a young one.

#### Application to Human Beings

If applied to human beings, this new development might mean that a young woman could give a whole new life cycle to an old woman's sex organs and give birth to the older woman's children. Dr. Greene said he saw no reason why the transfer of human ovaries could not be done.

In cattle, this would mean that a champion pedigreed cow could have calves years after she herself is dead. Dr. Whitney plans to try transplantation of cow ovaries in 1950.

Science News Letter, April 1, 1950

Safety *helmets*, made of glass fiber, have an advantage over metal types because they are not conductors of electricity.

#### ENGINEERING

### Signals Represent Numbers In Memory Tube

➤ A MEMORY tube that will hold electric signals representing numbers which are fed into it, and give them out later when needed, was revealed in New York to the Institute of Radio Engineers by scientists of the Massachusetts Institute of Technology.

The radio tube is for use in high-speed electronic computing machines sometimes called "giant brains." These computers solve in seconds problems that would require months or years by the pencil-and-pad method. Several are in use in various parts of the country. MIT scientists have taken a forward place in their development.

Other memory tubes have been developed, but none have been found entirely satisfactory. Lack of an adequate memory device has been the major problem facing efforts to develop these high-speed computers, the engineers were told by Stephen H. Dodd, Jr., Dr. Hans Klemperer and Patrick Youtz, all of MIT. This new 400-digit memory tube will solve this problem, it is claimed.

The new tube looks like a glass automobile muffler with an extra pipe coming out of one end. Literally a storehouse for numbers, it will hold its information indefinitely, as long as power is supplied. It can receive a number to be remembered in twenty-millionths of a second and give one out, when needed, just as fast.

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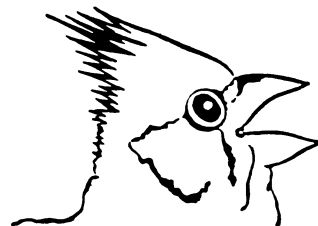
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