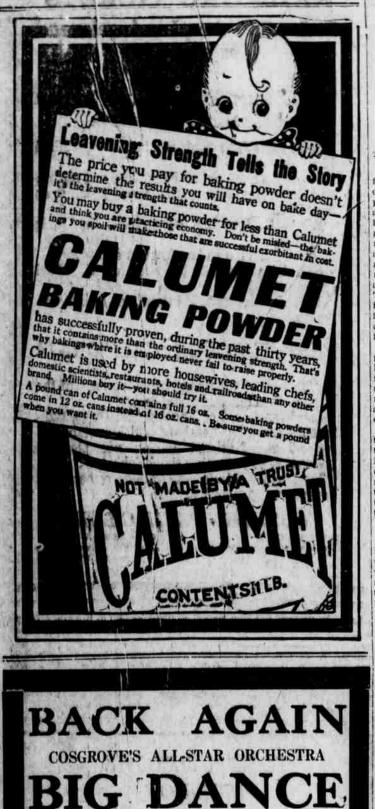
PAGE EIGHT

THE "COLD BLUE LIGHT" IS DEMONSTRATED BY PROF. HARVEY

PHILADELPHIA. May 26 - 4U, that shines continually with no more P.) - Dr. E. Newton Harvey of Phi2a-than a 1-1000th of a degree rise in delphis, a graduate of the University temperature, and with no "power-of Pennsylvania, and now a profess house" but the air and its oxygen. of Pennsylvaria, and now a protect index of the interview with the United sor at Princeton University, has sub-ceeded in bringing from the bottom Press Dr. Harvey concented not only of the occan something that in a to explain the nature of the discov-different form Benjamin Franklin, ery that has turned the eyes of the another Philadelphian, brought from scientific world upon him, but to the clouds. In an interview with the United

Where Franklin with his kite He took several inches of a coarse, brought about the eventual discovery granulated substance and put them of the elsetric light, Dr. Harvey into one of the round-bottomed flasks with a fishing net, has brought about in his library. This was in an althe discovery of "gold light"-light most entirely dark room. ",





He then held the flask under a time there was not the slightest faucet and allowed about a glassful heat. It was this about the experi-of distilled water to run over the powder. There commenced immedi- with hope. It sees a chance to ately to glow a clear bluish light that abolish the electric light globe, with lit up the professor's form with a its heat and wasted energy, and to ghostly radiance. Nearby object--a substitute a substance which will give row of test-tabes, a Bunsen barner, light and nothing more and that will a cupboard full of chemical supplies give it cheaply and continuously, and bottles in which stange and di-munitive fish lay quiet in a bath of was composed of two proteins tak

was composed of two proteins taken from a diminutive shell-fish that is alcohol were cast into prominence. Throughout the room, with its seemfound by the million in the sea near ing confusion of tubing, reforts, finsks, scales and records there spread finsks, scales and records there spread the west coast of Japan and is called an unearthly blue that had a twilight stance in it that is found in fireflies, but in greater quantity. What makes intensity.

points of a blue light that looked like little stars forming part of a fairy firmament. As the scientist shook the container these points merged with the body of the light, had duplicated the process, lt con-sists of adding oxygen to the protein and the entire phenomenon increased in intensity.

After several minutes had passed the light continued to glow as in-tensity as at the beginning. Dr. Harvey explained that he had sucpossibility. It is now in the real of ceded in keeping the glow alive for more than twenty-four hours, and] that he was confident he was on the trail of the method of making it en-trail of the method of making it en-

Made No Heat. The exhibition was wonderful in itself, as a vision. But the real value of the discovery was determined when he had his interviewer place a hand on the flask. It was found nights-that radiance produced by then to be cold to the touch. While light rays between the wave lengths the light had been shining for some



The phospohencence that is found in decaying meat and other putreent substances was the very first with which the doctor tried to work. aut he found it could not be used in sufficient quantity to be of much use

The substance that Dr. Harvey used

Several more years probably will

be spent in research before the light

can be proved to have a commercial

There are at least forty or fifty

that Dr. Harvey sought to find the answer to a problem that has per-plexed scientists for decades. He con-

cluded that if he could find what

made the firefly flicker, he would

have the formula for creating cold

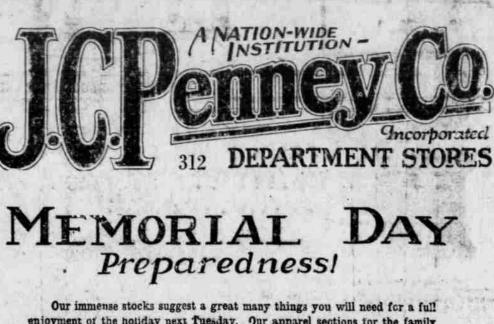
of infra red and those of ultara vio-

known as "lucimerin."

pure science.

Not the Solution. He then travelled into the fields nd byways about Princeton and collected fireflies, which he brought into his laboratory. The task of find. ing in these diminutive insects the source of their lightproved too much for him. It was then he thought of the fireflies of Japan, that are so large and numerous that the Japa-nese collect them and put them in cages. At a certain time of the year there are festivals at which these imprisoned insects are taken on lakes

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TO-NIGHT

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amidst scenes of indescribable beauty and released in swarms of brilliance.

Accordingly he travelled to Japan. stopping at the Dutch East Indies to collecut some specimens of a little fish found only there, known as the photoblepheron, that has a large luminescent organ below its eyes that shines continuously with a green light and which is covered at times by a lid like that of an eye. This fish proved of little use, and so did the fireflies of Japan.

Dr. Harvey stopped in Japan at Uodzu, near Toyama, where facilities for his work were provided, and upon giving up work with fireflies turned to luminous suid, a small fish that has eight tentacles like those of an octopus andin two of which are luminous organs. They are known as Hetaru-Ika, or firefly-squid. They, did not prove satisfactory. him was the -ypridina, a crustacean about an eighth of an inch long, that lives at the bottom of the sea and

comes to the surface at night. These he found to have a proportionately great amount of luminous material. and to be obtainable in such num-bers that he could make effective

The Combination Found In them he found two similar proteins, luciferin and lucipherase. Each was composed of carbon, hydrogen, nitrogen OXYZED. and sulphur, hough in exactly what combination has not been discovered. When the luciferin combined with oxygen it one, turning into a substance called oxyluciferin. The lucipherase hen acted to take out the oxygen rom the oxyfuciferin. This permitted the original luciferin to repeat the oxidizing and shining process. The continuous oxidation, or light-ing of the luciferin, and its accom-panying "reduction," or desoxidation, has been produced by Dr. Harvey by the use of metal, known as catalyst, that acts as the lucipherase does in the animal. In his combination the lucipherase acts to help along the oxidation

When Dr. Harvey has found how make luciferin without restoring to fishing, and has increased the fa-tensity of its light, the problem of numercial cold light will have been clved.

WAR OVER BEEF

MONTEVIDO, (By Mail to the United Press.)-Jerked beef is now breatening to become the cause of a tariff war between Uruguay and Bra-The national council has anunced its intention to lay a proposal befoire the chamber of deputies that ustoms duties levied upon Brazil products be increased as a reprisal for similar action which the neighboring ountry proposes to impose on the Uruguay meat,

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