

ATOM BREAKDOWN TO BE ATTEMPTED IN NEW RESEARCH

Westinghouse Is First Firm
to Delve Into Mysteries
of Matter—Giant Gener-
ator Will Be Utilized

PITTSBURGH (UP)—The Westinghouse Electric and Manufacturing company has set out to do a job that has baffled scientists for nearly a century—the job of disintegrating the atom in the hope of solving much of the mystery surrounding the structure of matter.

Work has already been started on the construction of a huge generator to hurl 3,000,000 volts in a terrific bombardment of the atom.

What if the project is successful? Will it be of any benefit? Will the average man be affected?

The ultimate result of the project cannot be foreseen, research engineers say, and it is not possible to predict what practical applications may result from the fundamental knowledge gained.

Practical Use Foreseen
According to Dr. L. W. Chubb, director of Westinghouse Research Laboratories, there has been little fundamental knowledge gained by science that has not been put to practical use.

Dr. Chubb pointed out that it was possible to develop the billion dollar radio industry when science learned how to control electrons. In another direction, he said, further knowledge and control of electron streams made it possible to develop circuit-breakers capable of interrupting the highest voltage, by the De-Ion principle, as easily as turning water off in a kitchen faucet.

At any rate, Westinghouse engineers have set out in earnest to tackle their task. A separate building has been assigned for the project and new equipment to provide the highest possible controlled direct voltage for the work is being designed.

Use Direct Current
The first step confronting engineers is the generation of such extremely high voltage necessary for the work. And direct current will be needed to provide a steady bombard-

ment. Very little is known about such direct current voltages, it was pointed out, due to the fact that almost all previous research has been in the field of alternating current high voltage.

Another problem faced by research men is the development of a vacuum tube, in which the atomic bombardment will take place, to withstand voltage in excess of 5,000,000.

The decision by Westinghouse to embark in the field of atomic disintegration marks the first time that an approach has been made by an industrial concern to such work. Previous investigation has been conducted by college laboratories or by a few small institutional groups.

Dr. William H. Wells, a graduate of Amherst and the recipient of a graduate doctorate degree from Johns Hopkins university, will be in direct charge of the project.

STUDENT PAYS COSTS OF COLLEGE TRAINING FROM BAG OF TRICKS

BERKELEY, Cal. (UP)—Oliver H. Beahrs, 22, is believed to be the only university student in the world who is paying his way through school as the result of sleight of hand magic.

Beahrs can do all of the stock tricks of magicians. He snatches cooked eggs out of thin air and slips mysteriously out of handcuffs and pulls yards of silk from empty hats.

The only possible relation that might exist between Beahrs' means of livelihood and his university work is that he is a zoological student and the latter might help him some in producing mysterious mice, pigeons and rabbits.

Beahrs fell heir to the costly equipment of the late Dr. R. D. Williams, professor of psychology at Pomona college.

For the past five years he has earned enough money from his tricks to pay his way through college. His special territory is in Alaska, where he spends the summers giving exhibitions between Dawson and Wrangell or at Yukon, Eskimo and Indians have conferred on him the title of "Dingli Gesun Nlein," or the "Big Medicine Man."

Beahrs hopes to graduate next May, after which he plans to make magic pay for a three-year medical course.

Closing time for Two Late to Class
sly Ads is 1:30 p. m.

YULE CARD TRENDS TAKE SEASON BOW TO KING EDWARD

NEW YORK (UP)—Father Christmas has gone over to the modernists this year, a preview of 1936 Christmas cards indicates. Noel greetings apparently are designed to uphold the newest school of decorative thought, but this does not mean grotesque cubes and triangles.

A definite trend toward simplicity of design to achieve unexpected effects with the traditional season emblems is revealed.

The new colors are right up to the times, too. There's the bright new coronation red and coronation blue and green, with a bow to King Edward, and softer tones named after the British royal residences. So if anybody says, for instance, they prefer Marlborough blue, it means a pale blue named after the new home of Queen Mary. The cards use it a great deal this season in deft union with silver and an equally new lilac tone.

Then there is a new card with two Christmas trees in vertical planes of red and white silhouetted against what looks like black patent leather framed in silver, but is really a shiny "enamel" paper. Or perhaps another tree, equally enterprising, formalized in tones of the new blues on red—blue and red, will be just as popular.

In more serious mood, the modern treatment with its effective simplicity lends itself to a wide variety of religious cards, of which there is a larger number this year than ever before. The Madonna and Child, always a favorite motif, appear, for example, in white silhouette framed by a white star on a solid red card. Dotted roofs in blue on star-sprinkled white connote the Holy Land. The Three Wise Men are done in silver-flecked white on a white card tied for contrast with red.

Santa and his reindeer, sleighs and stagecoaches, considered a little quaint and outmoded for the past few years, are back in style again and stronger than ever.

Modern-minded or not, however, the cards do not attempt to improve on the time-hallowed type of greeting. "Merry Christmas" is the order of the day, with verses that are couched uniformly in a spirit of warm friendliness. Wise-cracks or cynical

greetings are the outmoded ones today.

The 1936 cards are not timid as to sentiment. They range from serious expressions of affection to gayly affectionate misadventures.

BOILER WORKER WINS ART NICHE

NEW YORK (UP)—Elof Wedin, who paints landscapes and insulates heating plants, has won the distinction of having his work exhibited in a "one-man" show at a gallery here.

During the depression when work was slack he had plenty of time to paint portraits of his wife and neighbors. This year, mostly on Sundays, he had done six commissioned portraits, but Wedin still is employed as a boiler worker.

Wedin was born in Sweden in 1901, and was orphaned when he was 8. At 14 he was apprenticed to two older brothers in a small paper mill. In 1919, when he was 18, he came to America alone and went directly to Minneapolis, where he hoped to find work through a brother living there. He studied at night at the Minneapolis Institute of Arts, working during the day as an apprentice with a firm which furnished insulation for heating plants.

From that time on he saved his money for rainy days—which meant art student days for Wedin.

Wedin's work is not of the "primitive" school, but is solid, careful painting. A staid oil by him exhibited at the Hudson D. Walker gallery opening show here in September was well received by the critics.

ELECTRIC BULB MADE TO KILL INSECT PESTS

BERKELEY, Cal. (UP)—The electric light insect exterminator, designed by Prof. William B. Herms and Joe K. Ellsworth of the University of California, promises to take its place among other electrical gadgets such as the electric toaster, the electric iron and the electric razor.

The invention consists of a bulb that can be applied to any ordinary electric light socket. It attracts all varieties of insects, even mosquitoes, and when they approach, electrocutes them.

A few of the uses to which it is being applied and which have been reported to the university from various parts of the world, are:

One theater in Madeira has added it to the decorations in its marquee to keep the insects from bothering patrons.

It has been installed at service stations to keep customers from being annoyed by insects while having their cars serviced.

It is being used over outdoor swimming pools and in illuminated gardens to make the evening more agreeable.

It is being used effectively on playgrounds at night, also for lighted softball playing fields.

It is being used to provide food for fish, by hanging bulbs over pools, fish ponds and tanks, the light elec-

trocuting the insect, which then falls into the water.

The same process is being employed in chicken and turkey pens, the turkeys especially showing great appreciation of having their food electrocuted before their eyes and then having the choice morsel dropped right before their beaks.

The light, which was invented especially as a protection against mosquitoes, has received so much attention that requests have come from as far as India and Africa for full information on its manufacture and use.

SIX LIVES SAVED BY LAST BULLET

COLOMBO (UP)—The last cartridge among a party of six government officials in Ceylon saved them when they were charged by an elephant from camp and came upon a wild elephant. The beast was about to charge when a Sinhalese chieftain ac-

companied them brought it down with a single shot.

Recovering from the shock of their narrow escape, the officials were amazed to find that the shot which saved them was fired with the only ball cartridge in the whole party.

Going along a narrow jungle track, they turned a bend only half a mile in the jungle of the Navi region.

Assistant-Government Agent M. D. de S. Jayaratne and G. de ZoZyasa, deputy registrar of cooperative societies, had gone to the district with friends to transact business. In the

morning they went to see the large herds of deer often encountered in the Navi plains.



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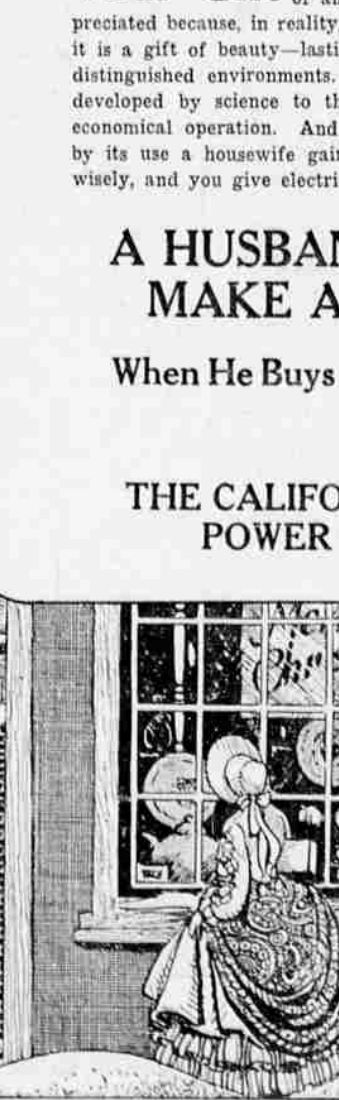
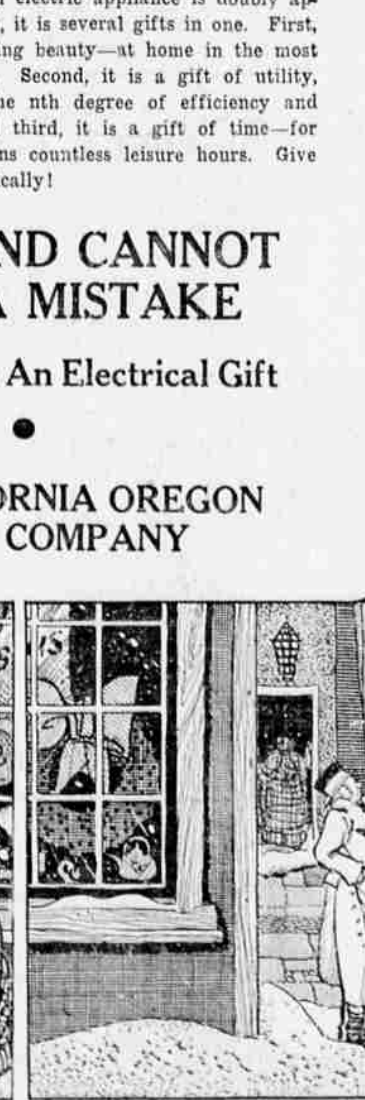
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