

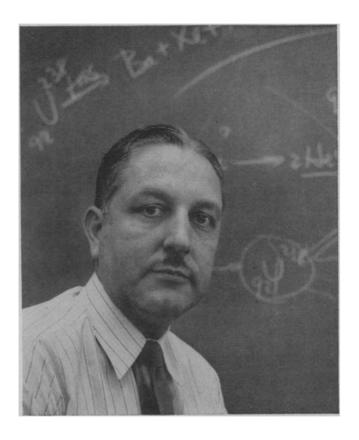


THE WEEKLY SUMMARY OF CURRENT SCIENCE



Dinner's Over See Page 323

A SCIENCE SERVICE PUBLICATION



## Adventurers in Research

Dr. W. E. Shoupp scientist

After graduation from Miami University, Oxford, Ohio in 1931, he served as graduate assistant and instructor in physics at the University of Illinois where he received his degrees of Master of Arts in 1933, and Doctor of Philosophy in 1937. He joined Westinghouse in 1938 as a Research Fellow. In 1941, he became a research scientist in the Laboratory at East Pittsburgh and was made Manager of the Electronics Department at the Laboratory in 1943. Four years later, he was appointed Director of Research of the Westinghouse Atomic Power Division. He is now Director of Development of this Division.

At a meeting of scientists in 1938, several were discussing the use of nuclear energy as a possible source of large amounts of energy. Before the meeting was over, others joined in and the subject really became "hot". Among those engaging in the discussion was Dr. W. E. Shoupp, then a Research Fellow at the Westinghouse Research Laboratories.

Dr. Shoupp went back to the Laboratory, determined to find some answers to the subject. Making use of the new Westinghouse atom smasher, he and other nuclear scientists did some pioneering research, culminating in the discovery that a uranium atom could be split into two equal fragments by the impact of high-speed gamma rays, with commensurate release of large amounts of energy. This they called "photo-fission".

His work on the subject also included the determination of the amount of neutron energy required to cause uranium and thorium to fission. This contributed to the basic understanding of the nuclear fission process and to the development of the atomic bomb and atomic energy. Incidentally, the Lamp Laboratory of Westinghouse supplied pure uranium for the first nuclear reactor.

At the beginning of World War II, when radar was being considered. Dr. Shoupp and some associates built from scratch, a radar laboratory where tubes and application techniques were developed. They made a major contribution to radar, and equally important, radar jamming.

Dr. Shoupp is continuing his work regarding atomic energy as Director of Development of the Westinghouse Atomic Power Division. Current research work under his supervision includes developments in connection with an atomic energy plant for the first atomic submarine and another plant suitable for the propulsion of large vessels such as aircraft carriers.

A man of engaging personality, Dr. Shoupp has a keen sense of humor and the ability to inspire and develop those who work with him. He is particularly proud of the fact that Westinghouse has been able to attract to the work of atomic power development, scientists of the highest caliber. Westinghouse Electric Corp., Pittsburgh, Penna.

G-10247

### you can be sure... if it's Westinghouse

# THE COUPON

#### that saves you money on 2, 3, or more Christmas Gifts

#### SCIENCE NEWS LETTER offers these

#### Special Rates for Christmas

Your FIRST 1-yr. Gift subscription	\$ 5.50
TWO 1-yr. Gift subscriptions	10.00
THREE 1-yr. Gift subscriptions	13.50
FOUR 1-yr. Gift subscriptions	17.00
FIVE 1-yr. Gift subscriptions	20.50
(One of the subscriptions may be a renewal own)	of your

The more Subscriptions you give, the lower your cost per gift. And one of the subscriptions can be a renewal of your own at the above saving . . .

Please send Science News Letter every week of 1953 (and include the 1952 Christmas issue) to each of the following:
GIFT TO Name
Address
City & State
Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.
GIFT TO Name
Address
City & State
Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.
GIFT
TO Name
Address
City & State
Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.
GIFT
GIFT TO Name
4
TO Name
TO Name  Address  City & State
TO Name
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.
TO Name  Address  City & State
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT  TO Name
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT  TO  Name  Address
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT  TO  Name  Address
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science
City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO  Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  THESE GIFTS ARE FROM:
Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  THESE GIFTS ARE FROM:  My Name  Address
City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  THESE GIFTS ARE FROM:  My Name  Address  City & State
City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  GIFT TO Name  Address  City & State  Send direct to me the specially designed Christmas Card so that I may announce my gift of Science News Letter personally.  THESE GIFTS ARE FROM:  My Name  Address

To Science News Letter 1719 N Street, N.W., Washington 6, D. C.