

—Dietz on Science— TUNGSTEN MAY SOLVE RIDDLE OF COSMIC RAY

Substance to Be Used in
Chicago Flight to
Stratosphere.

BY DAVID DIETZ,
Science-Howard Science Editor

A little block of solid tungsten, obtained by Dr. Arthur H. Compton, the cosmic ray expert, on a visit last week to the Nela Park laboratories of the General Electric Company in Cleveland, may solve the riddle of the cosmic rays and end the controversy over their nature.

Dr. Compton came in from Chicago to get the tungsten block for one of the instruments now under use in the balloon ascent to the stratosphere which Dr. Jean Picard and Lieutenant Commander T. G. W. Seattle are scheduled to make from Soldiers' Field, Chicago, before the end of the month. The tungsten block is a few inches long and a couple of inches thick.

The particular piece of apparatus in which it will be used will measure how many cosmic rays are absorbed by it.

Given Previous Tests

A similar instrument was used not long ago by two German experimenters, Kohlhorster and Bothe. Kohlhorster, it is interesting to note, was one of the pioneer students of cosmic rays, beginning his studies about twenty-five years ago.

The two Germans used a block of solid gold in their apparatus. Dr. Compton, however, decided that gold was a little too expensive, and so decided on tungsten instead.

The reason for using some very heavy material like gold or platinum or tungsten is that the cosmic rays penetrate the light metals with too great ease.

The instrument is a modification of what is known as a "coincidence counter." The coincidence counter consists of two small tubes of steel containing air or argon gas at high pressure. The two tubes, which are placed one above the other, are enclosed in a heavy lead shield which only cosmic rays can penetrate.

Direction Is Determined

When a cosmic ray enters either tube, it ionizes or electrifies the gas within it. This fact is registered upon delicate electric recording devices known as electrometers, which are connected with the tubes.

The apparatus is used chiefly to observe the number of rays which penetrate both tubes. These coincidences are caused by rays coming from the direction in which the apparatus is pointed, since these are the only ones which can pass through both tubes.

The apparatus, therefore, can be used to explore the direction from which the rays are coming.

The two German experimenters, after measuring the average number of rays coming from a given direction, then placed their block of gold between the two tubes. If now a smaller number of rays are detected in the second tube, it means that those which fail to reach the tube have been absorbed by the block of gold.

A process for sealing and coating red cedar lumber with rays was to retain the cedar aroma, especially adaptable to cedar closets, has been developed by a government scientist.

RITE'S WATCH REPAIRING
NEW LOW PRICES
ALL WORK GUARANTEED

Cleaning99c
Main Spring99c
Balance Staff99c
Any Jewel Replaced.....99c
Round Crystal1.4c
Fancy Crystal2.9c

Fine Jewelry Repairing
At Lowest Prices in the City

RITE'S
43 S. Illinois St.

ARE YOU A MARKED MAN?
IS YOUR FACE COVERED
WITH UNSIGHTLY RASH
OR PIMPLES?

You need no longer suffer or be humiliated. Read what Mr. George H. Deer, 4129 Byram Avenue says:

"I certainly do recommend JO-DA-SOL to any one suffering with any kind of skin trouble."

"I had a breaking out on my neck and tried almost everything anybody would recommend."

"JO-DA-SOL did the work in less than a week."

GET A BOTTLE OF JO-DA-SOL TODAY AT ANY OF THE BIG CUT PRICE DRUG STORES.

JO-DA-SOL

\$1 RENT A PIANO PEARSON
Piano Co. 128 N. Penn.

SPECIAL PAINLESS EXTRACTION 50¢
The PEOPLES DENTISTS
36 1/2 W. WASH. ST.

Men's and Women's
CLOTHING ON EASY CREDIT
ASKIN & MARINE CO.
127 W. Washington St.

BOY, 6, HIT BY ROCK

One Other Child Falls Down Stairs,
Injures His Head.

Leslie Morgan, 6, of 2119 Gent avenue, was given first aid by police and taken to city hospital Thursday after being hit on the head by a rock thrown by a playmate.

Albert Johnson, 7, of 120 South Hancock street, fell downstairs at his home Thursday night injuring his head.

Rob Manix, 18, of 2424 North

Meridian street, was treated at St. Vincent's hospital Thursday for a lacerated right ankle. A horse which he was leading along DeLong road in the 5700 block stepped on his ankle, he told police.

St. John's Homecoming Set

A homecoming festival to which all former members of the parish are invited will be held Saturday afternoon and night by St. John's church in the school yard at Capitol avenue and Georgia street. A dance and card party will be held and a lunch served.

PASTOR TO BE SPEAKER

Address Will Be Made at Session
of Probation Group.

Members of the State Probation Officers' Association will hear the Rev. Carl H. Barnett, pastor of Central Christian church of Lebanon at a meeting at 10 Saturday in the Severin.

Mr. Barnett was executive secretary of the committee on delinquency of the social service commission of the Federal Council of

the Churches of Christ in America from 1923 to 1925, and for the last four years has been probation officer of Boone county.

Five Bathing Suits Stolen

Two boys, 15 and 10, stole five bathing suits from the store owned by Mrs. Mary Meyer, 1805 South East street, Thursday while she was in the back part of the store. The suits were valued at \$7.

Canned baked apples add another ready-to-serve food to the rapidly growing list offered to customers.

HEAD WEST IN WAGON

"Prairie Schooner" Carries Family
of Five Toward Arkansas.

PERU, Ind., July 14.—Adopting a mode of travel popular in Indiana more than half a century ago, an unemployed Peru family was en route to Arkansas in a covered wagon today.

The father, W. A. Squires, plans to make application for a land claim in the south and find work cutting

PROGRAM IS PLANNED

Recreation Department, Leisure
Hour Clubs to Co-operate.

The recreation department of the city and Leisure Hour clubs will co-operate tonight in a program at the open-air theater of Garfield park. Included in the entertainment will be specialty numbers by the Devore sisters; Ace Bailey and his Rhythm Aces; Bonnie Eyland, blues singer; Old Doc Sunshine; Jessie Hall, whistler; the Nightingales, instrumental quartet, and the WKBF barn dance string band.

PROGRAM IS PLANNED

Recreation Department, Leisure
Hour Clubs to Co-operate.

The recreation department of the city and Leisure Hour clubs will co-operate tonight in a program at the open-air theater of Garfield park. Included in the entertainment will be specialty numbers by the Devore sisters; Ace Bailey and his Rhythm Aces; Bonnie Eyland, blues singer; Old Doc Sunshine; Jessie Hall, whistler; the Nightingales, instrumental quartet, and the WKBF barn dance string band.

**PAY
CASH
AND
PAY
LESS**

HERE Corner Washington and Delaware Sts.—Where There Is No Inflation!—OPEN SATURDAY 8:30 A. M. to 9:30 P. M. Quantities

8:30 to 12 A. M.

MORNING SPECIALS!

Wash Rags 3 FOR 5c

Sewing Thread 1c

Toilet Paper Roll 1c

'Rex' WALL PAPER CLEANER 3 1/2c

Epsom Salts 5-LB. SACK 17c

BOUGHT AT

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

SALE

Store Without A Name

Corner Washington and Delaware Sts.—Where There Is No Inflation!—OPEN SATURDAY 8:30 A. M. to 9:30 P. M. Quantities

1 to 5 P. M.

AFTERNOON SPECIALS!

Women's H'dkerchiefs 1 1/2c

Window Screens 15c

36x6 Green and Tan Window Shades 7c

27 Inch GINGHAM Yd. 4c

16-Oz.—39c Bottle Rubbing Alcohol 11c

Saturday and Monday Bargains | **PART OF THREE BIG STOCKS!** | Saturday and Monday Bargains

SEASON'S BEST VALUES

BUY HERE AT NO INFLATION PRICES!

VALUES YOU WILL LONG REMEMBER!

Clearance of Summer Pants

Slacks, Cottons, Seersuckers, Stripes, White Duck, Linen Knickers

ALL PANTS MARKED FOR QUICK DISPOSAL

Clearance of 265 Pr. Boys' SUMMER KNICKERS 15c
Some Straight Pants in Lot—Balcony.

Men's Reg. 19c SHIRTS or SHORTS 10c
Fine ribbed shirts and fancy shorts. EACH

Men's DRESS SHIRTS 22c
Neck band and collar attached. Soiled from handling. Broken sizes.

Up to \$1.49

Bought from a Leading Indpls' Dept. Store

THE ENTIRE BALANCE OF THEIR SUMMER MILLINERY STOCK!

Hats That Formerly Sold Up to \$7.50 in This Sale!

This is without a doubt the most exciting Hat Sale in our entire history.

- Cotton Pique
- Silk Crepe
- New Straws
- Cool Linen
- Turbans
- Sailors
- Wide Brims
- Little Brims
- Silk Pique

Lot No. 2 HATS 19c
You will grab them at this price.

Be here Saturday morning at 8:30 sharp for best selections. YOU WILL RECOGNIZE these quality hats as soon as you see them.

Lot No. 3 HATS 49c
Values to \$7.50. Every style, all colors.

A Hat for Every Style Dress!

- Sport Wear
- Street and Business Wear
- Sunday and Evening Wear

For Juniors For Misses For Women Every Style All Head Sizes

We are prohibited from mentioning the seller's name.

Clearance of SUMMER SHOES

FOR MEN & WOMEN

Up to \$1.47

10c BOTTLE WHITE SHOE CLEANER 6c

W. L. DOUGLAS CHILDREN'S SHOES
Reg. \$1 & \$1.50 Values
37c

BOYS' \$1.49 SPORT OXFORDS
All sizes. All styles.
97c

\$1.50 and \$2 Star Brand and Poll Parrott Child's Shoes
Come early for best selections.
79c to 97c

69c Boys' and Girls' TENNIS SHOES 33c

Women's Smart Summer SANDALS
Many beautiful styles and colors.
39c and 67c

Shoe Laces 12 for 5c

Children's 29c Wash Suits 15c
Sizes 2 to 6—Balcony

WOMEN'S YAT DYE WASH FROCKS 39c
Many styles and colors.

WOMEN'S \$1.00 Summer PURSES 25c
Final Cleanup. Main Floor

Women's PURE SILK and RAYON HOSE 19c
All new shades. Sizes 8 1/2 to 10. Irregulars. Main Floor

Children's and Misses' Anklets 5c
Many colors. Second Floor. PR.

Men's Athletic UNION SUITS 25c
A real value. Sizes 34 to 44. Main Floor