

—Dietz on Science— CAUTION URGED IN CONCLUSIONS ON COSMIC RAY

Pioneer in Field Doubts
Correctness of Same
Calculations.

BY DAVID DIETZ
Scripps-Howard Science Editor

NEW YORK, Nov. 28.—While Commander Settle and Major Fordney were sailing up eleven and three-quarter miles into the stratosphere to take cosmic ray observations, Dr. R. A. Millikan, pioneer American student of the rays, was warning the National Academy of Sciences, in session at Cambridge, Mass., of the need for a new interpretation of certain types of cosmic ray observations.

A common method of studying the rays has been by the use of two Geiger counters, placed one above the other.

The counter is essentially a metal tube with extremely thick walls. It is filled with gas under pressure. A cosmic ray, entering through the walls of the tube, upsets the electrical balance within the tube and causes a signal to be registered in a suitable recording mechanism connected to the tube.

When two tubes are placed one above the other, it has been assumed that a signal from both tubes indicated that a single ray had passed through both tubes.

Consequently, Geiger counters in pairs have been used to test the directions from which rays are supposed to be coming and for similar types of quantitative studies.

Questions Accuracy

Dr. Millikan warned that these types of experiments had to be interpreted with extreme caution and that it was by no means certain that a signal from both counters was necessarily the work of one ray.

In his address before the academy, Dr. Millikan showed photographs made in his laboratory in Pasadena with apparatus which makes visible the tracks of cosmic rays and various electrified particles.

These showed that a cosmic ray entering one chamber, such as that of a Geiger counter, knocked loose electrons and set up bursts of gamma rays, rays resembling those of radium.

These gamma rays, penetrating the walls of the second counter, knocked loose other electrons from the gas within it. Consequently, both counters registered a signal, but it did not mean the passage of a ray through both counters.

Show Complexity

In some of the photographs shown by Dr. Millikan, the spaces within the chambers were so crowded with tracks that it made one think of a shrapnel barrage over no man's land.

Dr. Millikan's photographs were beautiful examples of the extreme complexity of cosmic ray behavior. The behavior of a cosmic ray is very much like the behavior of the proverbial bull in a china shop.

Moving through space with a speed of more than 100,000 miles per second and with an electrical potential of more than 100,000 volts, it creates tremendous havoc in the atomic world.

FARE CUT ANNOUNCED

Southern Railway Sets 1 1/2 Cents a Mile Minimum.

Bench'd Actor Out; Beery Refuses to Discuss Incident.

By United Press

HOLLYWOOD, Nov. 28.—Stuart Erwin has been selected to pitch in for Lee Tracy in the picture in which Tracy was bench'd because of his so-called "insults" to a native cadet corps in Mexico City last week. Production will be resumed immediately, studio officials said today.

Wallace Beery, who plays the title role, flew back from Mexico City Saturday. He refused to discuss the incident.

Gone, but Not Forgotten

Automobiles reported to police as stolen belong to:

Herschell Clark, Burgersville, Ind., Buick coach, from parking lot at the Weller Inn, and Vinton, Ind.

Robert Olson, 833 North La Salle street, Chevrolet coach, found at 1600 Yandies street, and Coliseum avenue.

BACK HOME AGAIN

Stolen automobiles recovered by police belong to:

The Messenger Corporation, Auburn, Ind., Ford coach, found at Pennsylvania and Ohio street.

Charles Boiling, 647 Congress avenue, Plymouth coupe, found near Morris street, and 12th street, road map, used of five feet and tools valued at \$50.

There are approximately 400,000 Negroes in New York City.

NATURE FIGHTS COUGHS with VITAMIN A

Now you get this vitamin in Smith Bros. Cough Syrup

Just since last winter an astounding advance has been made in the treatment of colds. The way has been found to use Primary Vitamin A, the "Anti-Infective" vitamin. It is the weapon that Nature *now* uses to fight coughs and colds.

Smith Bros. Cough Syrup now contains this Primary Vitamin A.

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BABE RUTH AIDS INVALID BOYS



Babe Ruth is responsible for three things you see in this picture—for the dog, and for the smiles on the faces of Jack McCann (left) and for Stanley Hardesty (right). When the story got around that Jack and Stanley had been ordered to take long daily walks for their health at a Baltimore hospital for crippled children, but felt lonely because they had no dog to frisk about with them, the Babe quickly provided the boys with their canine pal.

Roof to Be Made Into The Streets of Paris

Show Comes from Chicago
Fair: Famous Cafes Are
Reproduced.

Carpenters, electricians, famous scenic artists and building experts have completed their plans for transforming the beautiful Indiana

Roof into the fascinating Latin quarters, street scenes and internationally known cafes of Paris.

The "Streets of Paris" is being brought here direct from the World's Fair and will be presented identically.

A brilliant premier is planned for Friday night at 8:30, the gala opening. Prominent stage stars and radio celebrities are expected to be present.

Considerable interest is being manifested over this attraction. Those who visited a Century of Progress last summer and entered the "Streets of Paris" will recognize the original shows, with their bakers and ballet girls. The original master of ceremonies also will be present to conduct the floor shows.

Nothing is being left undone to present the "Streets of Paris" exactly the same as at the fair. There will be the famous cafes such as Cafe de La Paix, International Bar, Cafe Casanova, and Moulin Rouge. There will be the Latin Quarter

where the Spirit of the Apaches and Gigilos thrilled the millions of visitors. There will be the quaint street artists, cigaret girls, and flower girls.

ALWAYS GIVE A CHILD A LIQUID LAXATIVE



Some laxative that always works just right for you, may work havoc with a child.

The laxative habit can be contracted at the age of six.

The wrong laxative can give children chronic constipation before their tenth birthday.

You wouldn't give your youngster a powerful headache powder! You shouldn't give him a violent cathartic.

Parents Aroused At Last!

Doctors urge the use of a liquid laxative for children; preferably one with senna. A liquid laxative can be regulated as to dose. The natural laxative action of senna does not weaken the bowels.

Druggists report increasing

MOTHER TELLS OF KIDNAPING; UNDER ARREST

Faces Delinquency Charge;
Grandmother Returns
Girl to Ohio.

The law today turned upon a mother who reported the abduction of her 13-year-old daughter, Katherine Church, and detained the mother, Mrs. Pauline Kremheller, 1130 North Illinois street, Apartment 10, on a fugitive warrant.

Mrs. Kremheller was arrested with Roy Pennock of the Illinois street address, on warrants out of Springfield, O., charging the couple with contributing to child delinquency.

Mrs. Kremheller reported to police that her daughter was kidnapped yesterday from school No. 2, Walnut and Delaware streets.

A check was made and it was found that the grandmother of the child, Mrs. Ida Inlow, of Washington Courthouse, O., who was awarded legal custody of the child, had taken the child from school.

Located by police today in Springfield, Mrs. Inlow readily admitted she had come to Indianapolis with another daughter, Mrs. Willard Roell, and waiting with a taxi at the school for the noon hour, taken her granddaughter back to Ohio.

She said she had custody of the child until the mother recently took her for a visit to Indianapolis and failed to return her.

No charges will be filed by local police against Mrs. Inlow.

4-Year-Old Child Killed

By Times Special

SOUTH BEND, Nov. 28.—Sterling Heroy, 4, is dead today in Epworth hospital of injuries received yesterday when he was crushed beneath the wheels of a backing grocery truck. Maurice Vanoutreve, driver of the truck, was not held.

VETERAN FIREMAN DIES

TOIL TO SETTLE BUS DISPUTE

Hopes of Settlement Are
Held by Both Sides
After Parley.

Hopes of settling differences between Indianapolis Railways and its bus drivers over unionism, without a strike, were held at 8:30 tomorrow morning by both parties, following a parley yesterday of the two groups with a regional labor board subcommittee.

The drivers demand that their

affiliation with the A. F. of L. be recognized, while the company asserts a majority of its employees favor a company union.

The regional labor board will receive briefs in the matter next week.

Home Burglar Gets \$10
Joseph Caldron, 1042 South Illinois street, last night reported to

I will visit you
soon but you
won't see me
The
INVISIBLE
MAN

Don't fool around with a cold. It's dangerous. Take Grove's Laxative Bromo Quinine. It puts a quick end to Mr. Cold because it does the four things necessary. It opens the bowels, combats the cold germs and fever in the system, relieves the headache and grippey feeling and tones the entire system. 30¢ and 50¢, at all drugists.

**Grove's LAXATIVE
BROMO QUININE**

Free Parking for Star Store Patrons!

WE CASH
Civil Gov't.
Work Checks
With Any Purchase

STAR STORE
BUY ON OUR TEN-PAY PLAN
360 370 WEST WASHINGTON ST

**\$1.00 Armand's
Face Powder**
WITH 50¢ BOTTLE
OF PARFUME
Special Wednesday
94c

**72x84 Part Wool
BLANKETS**
69c Each

**Wom.'s \$1.39 Outing
GOWNS**
Better Quality,
Extra Well Made
\$1.00

Specials FOR Thanksgiving

For the Holidays!
**PARTY
Frocks**
For Thanksgiving
For Xmas and
New Year's
\$6.90
Sizes 14 to 20

1-3 TO 1-2 OFF!
**Sample Furred
Coats**
Fine Selected
Furs—
All-Wool
Materials—
Carefully
Tailored—
\$16.50
Colors: Brown, Green,
Black and Wine
Guaranteed Silk
Linings on Sample
Coats

**Women's Charming D'Orsay
SLIPPERS**
For personal use and gifts too. Rich colors, with padded elk leather soles, low or Cuban heels, pompon and ribbon trim.
98c
Star, First Floor

**THANKSGIVING SPECIAL!
48-Gauge Sheer Chiffon
SILK HOSE**
Irregulars of \$1.35 Grade
Because they've been so carefully selected, you never recognize them as irregulars, all colors, all sizes.
75c PAIR
Star 1st Floor

**74x64-IN. MERCERIZED DAMASK
Tablecloth**
4 Floral Patterns \$1.59
Good heavy quality, hemstitched all around, choice of 4 attractive floral designs, snow white, note the extra length.
Star Basement

**Men's Thanksgiving Treat
Suits-Overcoats**
Light and Dark Patterns
O'Coats
Warm blue meltons, burly styles, sizes 35 to 44.
Suits
Of fancy worsteds and casimères. Sizes 35 to 42. Perfect fitting.
\$10
Star, 1st Floor

Blue Corduroys, slightly imperfect, for school and general wear, sizes 8 to 16 years.

Star, 1st Floor

Velvet, satin and taffeta trimmed, all smart styles in every size.

Star, 1st Floor

Boys' Corduroy
SLACKS
Wednesday Only!
\$1.98 Value

**\$1.39
PAIR**

Blue Corduroys, slightly imperfect, for school and general wear, sizes 8 to 16 years.

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