

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 100,000,000 volts, it creates tremendous havoc in the atomic world.

STUART ERWIN GETS TRACY ROLE IN FILM

'Benched' Actor Out; Beery Refuses to Discuss Incident.

By United Press

HOLLYWOOD, Nov. 28.—Stuart Erwin has been selected to pinch hit for Lee Tracy in the picture in which Tracy was benched 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, Bargersville, Ind., Buick coach, 24-08, found at New Jersey and Vermont streets.

O. M. Combs, 1610 Finley avenue, Chevrolet sedan, 12-48, found at Thirty-eighth 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 streets.

Robert Olson, 833 North La Salle street, Chevrolet coach, found at 1600 Yandes street.

E. Johnson, 2732 Northwestern avenue, Moon roadster found at Twenty-sixth street and Northwestern avenue.

Arthur Brown, 312 North Meridian street, Ford sedan, found at 100 West Georgia street.

Charles Boling, 647 Congress avenue, Plymouth coupe, found at Morris street and the National road, stripped of five tires and tools valued at \$30.

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 coughs and colds. The way has been found to use Primary VITAMIN A, the "Anti-Infective" vitamin. It is the weapon that Nature herself uses to fight coughs and colds.

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

Now Smith Bros. Cough Syrup not only gives you fast, pleasant relief. In addition its Primary Vitamin A aids Nature in driving the cough and cold out of the system faster, and it raises your resistance against infection with new coughs and colds. Nature herself leads you back to health and better health.

The only cough syrup giving you the relief of Vitamin A is Smith Bros. Cough Syrup. Get a bottle today. Be healthier this winter.

Skin-Itch Torture Ends; Millions Praise Zemo

The first application of soothing, healing Zemo quickly relieves the torture of Itching Rashes, Eczema, Ringworm and similar skin troubles. For 25 years Zemo has been used and praised by millions as a clean, safe, dependable remedy for family use to relieve and clear away skin irritations. A trial will convince you of its great merit. Insist on genuine Zemo; it's worth the price because you get relief. 35c, 60c, \$1. All druggists.—Advertisement.

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 Hardisty (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 barkers 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.

FARE CUT ANNOUNCED

Southern Railway Sets 1½ Cents a Mile Minimum.

Reduction of passenger fares on the Southern Railway System Friday or as soon as possible thereafter, has been announced by D. R. Thompson, passenger agent for the concern. The new fares will be 1½ cents a mile in ordinary day coaches and 3 cents a mile in Pullman cars. The new schedule will eliminate the present surcharge for Pullman car service.

BLAST VICTIM IS DEAD

Youth Is Second Fatality in Mine Explosion at Yanketown.

By Times Special

EVANSVILLE, Nov. 28.—George Heldt, 20, is dead today at the Wellborn Walker hospital, where he and six other men were taken Nov. 20, following a powder explosion in the Yanketown mine.

This is the second fatality caused by the explosion. The four remaining men are in a critical condition.

SOME WOMEN ALWAYS ATTRACT

You want to be beautiful. You want the tireless energy, fresh complexion and pep of youth. Then let Dr. Edwards Olive Tablets help free your system of the poisons caused by clogged bowels and torpid liver.

For 20 years, men and women suffering from stomach troubles, pimples, listlessness and headaches have taken Dr. Edwards Olive Tablets, a successful substitute for calomel, a compound of vegetable ingredients, known by their olive color. They act easily upon the bowels without gripping. They help cleanse the system and tone up the liver.

If you value youth and its many gifts, take Dr. Edwards Olive Tablets nightly. How much better you will feel—and look. 35c, 60c, 90c.—Advertisement.

STOP RHEUMATISM PAINS QUICKLY

Renton's Hydrocin Tablets Relieve Stubborn Cases When Many Others Fail.

No matter how long you have suffered from Rheumatism, Arthritis, Neuritis and similar ailments; no matter how many remedies you have tried, don't be discouraged. For Renton's Hydrocin Tablets, a new scientific preparation containing a substance that dissolves the uric acid deposits in the joints and muscles, brings quick relief.

Many letters are on file from people who suffered years and years, often bed-ridden and unable to walk a step, who vainly tried every sort and kind of treatment, bath and serum, and finally obtained gratifying results through Renton's Hydrocin Tablets and today are doing their regular work free from pain.

Get a bottle of Renton's Hydrocin Tablets from your druggist today, or write Renton, Pasadena, California.—Advertisement.

The Economical Voice of Millions

INDIANA BELL TELEPHONE COMPANY

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 Krehmeller, 1130 North Illinois street, Apartment 10, on a fugitive warrant.

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

Mrs. Krehmeller 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 Vanoutrve, driver of the truck, was not held.

VETERAN FIREMAN DIES

Patrick E. Ryan

Funeral services for Patrick E. Ryan, 77, retired member of the Indianapolis fire department, will be held at 8:30 tomorrow morning in the residence, 205 Randolph street, and at 9 in the Holy Cross Catholic church. Mr. Ryan had assisted in fighting every major fire in the city for thirty-six years, until his retirement in 1927.

CITY STUDENT HONORED

Pi Tau Sigma Votes Membership for J. E. Pearson.

By Times Special

LAFAYETTE, Ind., Nov. 28.—J. E. Pearson of Indianapolis, a junior in the school of mechanical engineering at Purdue university, has been honored by election to membership in Pi Tau Sigma, national honorary mechanical engineering fraternity. The election came as a result of an outstanding scholastic record and interest in campus activity.

Parked Car Stripped

John Hanse, 17, of 1139 St. Paul street, reported to police last night that while his car was parked in front of 2195 North Dexter avenue, it was stripped of lights, windshield wiper, fenders, and all wires were cut.

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 today 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, 1942 South Illinois street, last night reported to

police that his home was ransacked and \$10 in cash and a quantity of clothing stolen.

HIT THAT COLD A KNOCK-OUT BLOW!

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 grippiness and tones the entire system. 30¢ and 60¢, at all druggists.

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 PERFUME Special Wednesday

94c

A nationally known face powder—Armand's Symphonie powder. Star, 1st Floor

72x84 Part Wool BLANKETS

69c Each

5% Wool In neat plaid patterns, popular colors, slight fringes. Star, Basement

Wom.'s \$1.39 Outing GOWNS

Better Quality, Extra Well Made

\$1.00

Outing flannel gowns. In regular and extra sizes, 16 to 20. Special. Star, 2nd Floor

Specials FOR Thanksgiving

For the Holidays! PARTY Frocks

For Thanksgiving For Xmas and New Year's

\$6.90

Sizes 14 to 20

You'll want one of these for the home re-union, the holidays and many other winter festivities. Neat pastels with Rhinestone and Marabow* trimmed. Some have capes and jackets. Star, 2nd Floor

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

With these sample coats, many of our better coats have been included in this selection. The 175¢ coats you would expect to pay many dollars more for. Sizes 12 to 20, 24 to 32. Star, Second Floor

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, hem-stitched all around, choice of 4 attractive floral designs, snow white, note the extra length.

Star Basement

Men! A Thanksgiving Treat Suits-Overcoats

Light and Dark Patterns

O'Coats

Warm blue meltons, burly styles. Sizes 36 to 44.

Suits

Of fancy worsteds and cassimeres. Size 36 to 42. Perfect fitting.

\$10

Star, 1st Floor

Wom.'s Lounging Pajamas and ROBES

\$3.49

Of corduroy, for gifts and personal use, bright colors, rose, green, blue, navy, wine. Small, medium and large sizes. Star 2nd Floor

Thanksgiving Special! Women's Suede Fabric GLOVES

\$1.00

Pair

In Popular Black & Brown

Velvet, satin and taffeta trimmed, all smart styles, in every size. Star, 1st Floor.

Boys' Corduroy SLACKS

Wednesday Only!

\$1.39

PAIR

Blue Corduroys, slightly imperfect, for school and general wear, sizes 8 to 16 years. Star, 1st Floor.