

SCIENCE LISTS MANY TRIUMPHS

Year of 1929 One of Accomplishment, Hundreds Of Advances Made.

By Howard W. Blakester
Science Editor

(Associated Press Feature Service)
NEW YORK (AP)—From Byrd and Wilkins aloft in planes over Antarctica and Lindbergh over the Mexican jungles to such non-spectacular achievements as that of two young German chemists who split hitherto indivisible hydrogen, earth's simplest element, science made hundreds of advances in 1929.

Most of them are considered routine by scientists with the time still years away when their importance may be evaluated.

In evolution Dr. Austin H. Clark of Washington advanced data to show that new species can come into existence quickly, while at Carnegie Institution, St. Louis University, the University of California and many other places, radium and X-ray emanations were shown to be an influence in producing changes in species.

Among very practical developments were finding of better mine gas protection by the U. S. bureau of mines, an improved egg preservation method at Cornell, a means of keeping fish fresh for a year in Canada, a non-explosive film made of cloth at Pittsburgh, a caterpillar tractor two-boat on the Tennessee river, the speedy rail-tourer detector travelling over the major American railways, and a telephone dial that speaks numbers.

Health research provided many advances. At Yale, a method of treating pneumonia by carbon dioxide was announced. At Harvard, Michigan, Kentucky Agricultural experiment station and other places better or cheaper remedies for pernicious anemia were found.

Europe and America developed numerous advanced cancer treatments, without finding a remedy, and in the United States the pathologists of Rockefeller Institute reported evidence that they are a little closer to the extermination of tuberculosis in a cooperative research carried on by 17 American scientific institutions.

Dr. Fischer in Germany made the red blood corpuscles synthetically for the first time. New methods were reported of extracting hormones useful for delaying the ravages of age in men, and promising relief for some feminine ills. Study of light produced a sun-light picture screen in England and apparatus by Baird to materialize before the eye, things hidden by darkness or behind fog. The use of ultra-violet rays spread so widely that medical authorities warned the public not to overdo.

The Eastman Kodak company took motion pictures with the aid of invisible infra-red rays, the U. S. bureau of standards developed artificial daylight as "real" as that of a June day, and the General Electric company produced a light that changes its colors with fluctuations in the electrical current. At the University of Iowa and numerous other places voice vibrations traced in light were used to train musicians. Similar translations of sound into light were experimented with for helping the deaf to see what they cannot hear.

Yale established an institute of human relations to tie in all branches of science with human affairs and Cornell launched an undertaking of the same order.

A few of 1929's developments to indicate the range of scientific exploration are smokeless tobacco, non-inflammable paper, gasoline made electrically at the University of Minnesota, gasoline made from fir trees, bromine made from sea water, a silver water filter, weighing of cathode dams at Massachusetts Institute of Technology, sound to make heart beat and sound to reveal chemical composition of liquids.

The U. S. naval observatory has a new method of determining time. Einstein said that gravitation and electricity are related, a Canadian underwater listening device heard icebergs six miles distant, and the Roosevelt brought a new bear from Asia.

KNOW THEIR AUTOS

MADRID (AP)—Alfonso and Primo know their automobiles. In different cars king and premier became entangled in traffic. Each got out, made signals, ordered cars hither and yon and soon had affairs running smoothly much to the relief of some distressed policemen.

MILLIONS WAGERED

BALTIMORE (AP)—The state racing commission has calculated the total amount wagered through pari-mutuel machines in 1929 at Pimlico, Laurel, Havre De Grace and Bowie at \$54,419,636.50.

SHE'S NOT AFRAID

NEW YORK (AP)—Lady Richmond Brown, who confesses she is frightened to death at a mouse, but is not afraid of anything in the jungle, is a member of an expedition going shortly to unexplored regions of Central America.

FAT WOMAN PAYS DOUBLE
ST. LOUIS (AP)—A stout woman passenger on a service car voluntarily paid double fare because she occupied two seats.

The single fare is 25 cents, but the woman handed the driver 50 cents as she edged out of the car sideways.

"Here, your change," shouted the driver as the woman turned to walk away.
"Never mind," she replied, "I occupied two seats and I'm willing to pay for them."

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That serviceable, easily laundered fabric of so many uses is offered you at this clearance price. Many bright new patterns from which to choose.

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FAMOUS ENNA JETTIC SHOES
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Pied Piper - Roberts Johnson and Rand - and Stickles children's slippers - oxfords - shoes and boots are offered you at this reduction. Buy Now And Save.

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The newest of snappy Fall and Winter styles in both black and brown colors with high and medium heels in strap and pump styles.

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In this bargain group are shoes that formerly sold to \$10. Broken lines and sizes of popular makes in patent, kid and calf skin.

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\$7.85

Short lines of the famous Arch Preserver - and our entire stock of Red Cross shoes is included in this group. Patent leather and kid in black and browns.

THE FLORSHEIM SHOE
\$8.85 All regular \$10 Florsheims now \$8.85 and all regular \$11 Florsheims \$9.75! The additional style and value is worth it for Florsheims give more miles per dollar. Come in and slip on a pair and pocket the difference. **\$9.75**

Young Men's Oxfords
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Young men's square toe oxfords in Florsheim and Booth makes in tan and black. All sizes are here but not in all shoes.

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Shoes ideal for semi-dress or work in black, brown and tans in calf and kid leather, exceptional values at this price of \$2.95.



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