

New Fuel May Change World

Science Finds Substance That Beats Gasoline 3,000,000 to 1.

NEW YORK.—Pioneering physicists at Columbia university have separated into pure form a natural substance so powerful that one pound of it will give off as much energy as 3,000,000 pounds of gasoline or 5,000,000 pounds of coal. This discovery, which is discussed in the current issue of the *Physical Review*, official publication of American physicists, has brought from scientists the cautious forecast that if the substance can really be harnessed, a revolution in power greater than the introduction of the steam engine impends.

"One Step Remains," Prof. John R. Dunning, who headed the Columbia team whose research led to experimental proof of the potency of the newly isolated substance, was said to have told a colleague that only one step remains before its use will be available to man. That step is the improvement of methods of extracting it from ore. Other physicists agreed with Dunning.

In the beginning only infinitesimal amounts were available. In two months' time these amounts increased 200-fold. Tentatively the name U-233 has been given to the substance, which is a close relative of uranium. It is reckoned that 100 pounds of U-233 would drive an ocean liner around the world many times, and that a piece the size of a man's hand would enable a submarine to cross any body of water in the world, including the Pacific ocean. Not much of it would be required to fly an airplane around the earth.

The report stressed the ease with which U-233 can be made to give off its tremendous energy. All that is necessary, it was said, was to put some of it in a tank and supply it with a constant stream of cold water.

Minnesota Successful First. Until a few months ago, not even a drop of this substance had been extracted into pure form. Scientists were skeptical whether it could be done. Toward the end of February a minute fraction of a gram was isolated at the University of Minnesota physics laboratory, under direction of Prof. Alfred O. Nier. This sample was sent to Columbia, where Prof. Dunning, Dr. E. T. Booth, and Dr. Aristed V. Grosse tested it in the university's 150-ton cyclotron (atom smasher). It worked well, but the scale of the experiment was small, and only after much larger quantities had been extracted did the experimenters become satisfied with the prospects.

They now entertain the hope that in a short time a way will be found to isolate the material in pounds instead of millions of a gram. It is known that large manufacturing companies are interested in the experiments and that research men for General Electric have separated a bit of it and got results similar to those of Columbia.

Dam Workers Turn Up Gold During Off Hours SACRAMENTO, CALIF.—Men employed in construction of the Bucka-Chucky debris dam on the American river near Auburn have turned to gold mining in their spare time. George Pollock of Sacramento, contractor for the dam, reported.

Site of the dam is in the foothills of the Sierra Nevada in the Mother Lode country made famous by California's gold strike of nearly a century ago.

About 40 men are employed at the dam and some of them have made as high as \$100 a day in working high quality ore from a pocket opened by the Pollock company in cutting a temporary roadway at the dam site, the contractor said.

The men have not deserted their jobs, he added, but they merely turned to prospecting while it was too wet to work at the damsite for construction work.

Heat, Not Cold, Wiped Out Dinosaurs, Says Expert LOS ANGELES, CALIF.—Experts heat wiped out the dinosaurs that roamed the earth 25,000,000 years ago, says Dr. Raymond B. Cowles of the University of California at Los Angeles. This contention is a widely held belief that the dinosaurs succumbed to glacial cold is based on a study of existing lizards.

G. O. P. Keynote, Leaders Hold Parley Gov. Harold E. Stassen of Minnesota, Republican national convention keynote, gathered conferring with party leaders while in Washington to see G. O. P. leaders on his speech concerning the party platform. Left to right: Sen. Wallace White of Maine, Rep. Joseph Martin of Massachusetts, Sen. Henry Lodge of Massachusetts, Gov. Harold E. Stassen of Minnesota, and Sen. Arthur Vandenberg.

Small glass homes may start new building trend

MIAMI, FLA.—Will the small American home soon become an "all-glass" house?

That was the question pondered here by more than 600 architects, home builders and contractors who witnessed for the first time a demonstration revealing how structural glass, large window areas, and extensive use of plate glass mirrors can increase interior light and comfort and give illusion of spacious-

First Nighter—Spinning Champ—'Desperado'



Three gentlemen, whose combined ages totaled 276, broke into the limelight recently—for three different reasons. "Shoshone Johnny," left, 108-year-old Indian, dropped into Hollywood from Bear Valley to view a motion picture preview. Center: Jean Contette, 186, of Quebec, is Canada's foremost exponent of the old fashioned spinning wheel. He wants Hitler to follow his calm example and end war. Right: Sentenced to serve 60 days in a Newark, N. J., jail for vagrancy was Charles Desha, who was found to be one of the gang which participated in the historic Great Northern train robbery in Stillwater, Minn., in 1928.

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Bully Sparrow Tries to Drive Skimmer Sparrow From Home

By THORNTON BURGESS

ONE of the queer things about the world is the feeling that you do not want to see the one who has wronged you anywhere about. That is one of the ways conscience picks. Now, you wouldn't think from the way he acts that Bully the English Sparrow has any conscience.

Perhaps he doesn't know he has himself. But, just the same, he has. Everybody has. Nobody is so bad that somewhere down deep inside there is not some good, and conscience is this good trying to make itself felt.

Now you know that Bully and Mrs. Bully and boldly robbed Skimmer the Sparrow and Mrs. Skimmer.

They were obliged to leave the Old Orchard altogether, though they did not go far. Then, boasting loudly, Bully returned to the house he had stolen and which Mrs. Bully had not guarded for a moment. There they solitely talked it all over, and planned to begin building their own nest at once.

"I guess they won't bother us any more," chirped Bully. "I've driven them out of the Old Orchard and you guess they've had all the fighting with me they want. There's nothing like being bold, my dear, to get the things you want in this world."

Which goes to show that Bully believes, as a great many people seem to, that might makes right. Of course, it doesn't, and in the end no good comes of it.

T. W. Burgess—WFO Service

Minute Make-Ups By V.V.

IF YOU are collecting inches around the hips, try this exercise every morning: Standing before a chair, arms straight out from the shoulder, lift one leg and swing it over the top of a chair. Be sure to place your weight so that you do not wiggle or bend that straight-as-a-ramrod back.

Competitors

Although there is no similarity between milk and beer, except that both are liquid, they are competitors, and beer seems to be gaining ground. A recent survey conducted by the Psychological corporation shows that 46.1 per cent of the nation's city families now drink beer, though undoubtedly they also drink or use some milk. Much of the increased consumption of beer can be attributed to advertising by the breweries.

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Methods Vary In Treatment Of Hay Fever

By DR. JAMES W. BARTON

THE hay fever season will be coming along soon and thousands of sufferers will be wondering just whether the season will be severe or mild.

If much ragweed pollen is being carried in the air they know they are in for a miserable time.

Fortunately the use of injections of the ragweed pollen prevents attacks in a great many cases.

Just as some individuals are attacked and others are not, is not definitely known, but there seem to be two reasons for hay fever attacking this large group. One is an inherited tendency toward allergy or sensitiveness to substances and the other is some change in the gland system of these individuals which interferes with the balance of one gland with another or with several.

In some instances, the first thought in the treatment of asthma and hay fever is to use epinephrine or ephedrine to contract the adrenal glands, situated on top of each kidney. This does not cure asthma or hay fever, but it eases and usually stops the attack. However, with the application of eyes or lining of nose, eases the distress in hay fever.

Gland System May Be at Fault. In the case of asthma, the fault is again suggested by Dr. C. S. Bucher of Champaign, Ill., in Medical World, who, with the use of another gland extract—the pituitary gland lying on the floor of the skull—equal to 100 grains of a brief extract once a day for seven days to ten days, then three times a week for two weeks, tried a week for two weeks, and once a week thereafter. About 21 injections were given. This treatment is begun one with the ragweed treatment about two months before the usual time for the onset of hay fever.

Lumbago, Sciatica Not 'Natural' Ills

YOU may suffer with an attack of lumbago and sciatica but because you are getting "older" you may think that lumbago and sciatica are the "natural" ailments you must endure. So you apply heat in some form, take aspirin tablets regularly and seem to get along fairly well.

Sciatica and lumbago are not natural ailments but have some definite cause.

I have spoken before of my own attacks of sciatica and lumbago. The first attack was due to injury for which I wore a Goldthwait brace for four years. The second was due to infected tonsils, the removal of which brought relief of pain in 48 hours, and full use of a partly paralyzed leg within one month.

Due to injury or infection. In other words, sciatica and lumbago are due in the great majority of cases to injury or infection.

The injury may not be a fall, a blow, a wrench of the joints in lower back and hips. In many cases, it is due to the faulty posture or carriage; in fact, Dr. W. M. Steel in *American Journal of Surgery*, says: "Poor posture is the usual 'pre-disposing' cause of lumbago-sciatica. The spinal 'kink' puts an added pull on ligaments and nerves, with pain in the distant branches of these nerves. 'The poor posture may be due to flat feet or just poor muscular power.'"

"Pain is transmitted down the leg to foot. In mild cases there is morning back stiffness and muscle fatigue, followed as the day goes on by pain over the hip joints, buttocks and down back of legs. The pain comes and goes and is made worse by sudden body twists, lifting, exposure to wet and cold, or infection."

QUESTIONS BOX

Q.—What causes belching? A.—Most cases of belching are due to a sluggish liver and gall bladder. Other cases are due to gas forming foods—beans, salmons, lettuce and cauliflower.

Q.—Will you kindly advise if citrus fruits and tomato juice are good sources of vitamin B?

A.—Citrus fruit and tomato juice contain vitamin B, but are not as rich in it as liver, milk, eggs, whole wheat grain, yeast and peanuts.

PATTERN SEWING CIRCLE DEPARTMENT

Junior will love it, in sharkskin, gingham, linen or rayon. Pattern No. 8719 is designed for sizes 11, 13, 15, 17 and 19. Size 13 dress requires 3½ yards of 38-inch fabric without cap. Bolero, 1¾ yards, 1¼ yards for shorts, 3¼ yards bias fold required trim.

221 W. Wacker Dr. Chicago Enclosure 15 cents in color for Pattern No. Size Name Address

HOUSEHOLD QUESTIONS

When lighting a birthday cake always light the candles in the middle first and those on outside last.

A teaspoon of mixed pickle spices tied in a small bag and added to the water in which fish, ham or tongue is boiled, will add a very pleasing flavor.

Art gum may be used to clean gloves, shoes, and wall paper.

When refilling a feather pillow crush a small block of camphor and mix in with the feathers. This will keep the feathers "fresh" and will help to preserve them.

After a blanket has been washed and dried pin it on the line and beat with a carpet-beater. This makes the blanket beautifully soft and fluffy.

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When you buy an electric refrigerator, look wisely to the future. Look 20 years ahead... or so. Look beyond the refrigerator as it stands today, new and bright and gleaming. Visualize the greater needs which it may be called to meet in the years to come. Consider the satisfactions of service well rendered that can come only from a product ably engineered and ably built by an organization experienced in precision manufacturing.

Such an organization is Norge, backed by the resources and engineering skill, the seasoned reputation and world fame of the great Borg-Warner Corporation whose score of factories employ thousands in five states.

You will look today, of course, at the advanced features that distinguish the Norge refrigerator in its field... at the highlights of detail and design that are winning such high acclaim throughout the world. In the big SR-8 model, as shown above, you will admire extra size and ample capacity, a freezer of stainless steel, the convenience of the exclusive Hamamaster and Goldpack, the sliding shelves, glass-covered drawers and Calacat. Yet you will appreciate the simple efficiency of the refrigerant-cooled Rollator Cold-Maker which Norge has built to almost unbelievable limits of precision for lifetime service.

But before you decide, look again at the record of integrity and achievement which Norge has made in the past 20 years, and realize the reason you also may look far to the future with faith in Norge.

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NORGE DIVISION BORG-WARNER CORPORATION

Clubs and Parties . . .

By BETTIE H. BETHESINGTON — Page 54

Mary L. Stewart Married in Orlando

Mr. and Mrs. Lighthouse B. Stewart announced the marriage of their daughter, Mary Louise, to Woodrow Cornell of Orlando, son of Mr. and Mrs. J. W. Cornell of Rockledge. The marriage took place at six o'clock Saturday afternoon, June 1, at the parsonage of the North Park Baptist church in Orlando, the pastor, the Rev. W. R. Clark, officiating.

The bride was given in marriage by her brother, Robert R. Stewart. The couple was attended by Mrs. Robert M. Stewart, sister-in-law of the bride, and J. W. Cornell, brother of the groom.

Mrs. Cornell was married in an attractive navy blue tulle dress with white accessories, and her carriage was of sweet peas and valley lilies.

Mrs. Stewart chose a poodle blue chiffon with white accessories, and her carriage was of sweet peas and valley lilies.

Mrs. Cornell graduated with the class of '38 from the Avon Park high school, she graduated from a business school in Orlando, on Friday, before the marriage the following day.

Mr. Cornell is connected with the United Text and Marine Co. of Orlando, where the couple will reside. They will be at home to their friends at 1115 Virginia in Orlando, where they are temporarily located.

Chicken Fry Proves Enjoyable Affair

Members of the Baptist Adult Union of the B. Y. P. U. and their families enjoyed a chicken fry at the home of Mr. and Mrs. Albert Johnson Thursday evening. The chicken was fried on an outdoor stove near the lake shore, and was served with rice and gravy, and potato salad, pickles, sliced tomatoes, several kinds of cake and coffee and lemonade. About thirty were present at this delightful affair.

Sara Lucy Trent Is Married

Friends here have received word of the marriage of Miss Sara Lucy Trent, daughter of Mr. and Mrs. Fred Trent of Jacksonville, to Louis R. McElroy, which took place in the spring. The couple will reside in Jacksonville. The Trents reside in Jacksonville. The Trents formerly lived in Avon Park. Miss Sara Lucy Trent attended Emma college at Gainesville, Fla., and more recently has taught in the schools of Jacksonville.

TO BE MARRIED

(Out courtesy of Lakeland Ledger)

Mr. and Mrs. T. W. Graham of 161 north Iowa avenue, Lakeland, former Avon Park residents, have announced the engagement of their daughter, Miss Merle Graham to Vernon Mark James of San Diego, Cal., son of Mr. and Mrs. L. J. James of 4111 South Missouri avenue. The wedding is to take place Sunday afternoon, June 11, at 4 o'clock at the Myrtle Street Methodist church in Lakeland, with the Rev. J. R. Reid, pastor of the church performing the ceremony.

The bride was given in marriage by her brother, Claude B. Graham. The couple was attended by Mrs. T. W. Graham, sister-in-law of the bride, and L. J. James, brother of the groom.

Mrs. Graham was married in an attractive navy blue tulle dress with white accessories, and her carriage was of sweet peas and valley lilies.

Mrs. James chose a poodle blue chiffon with white accessories, and her carriage was of sweet peas and valley lilies.

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Rebekahs Meet Monday Night

Eleanor Beavers's Rebekah Lodge No. 88 held their regular meeting Monday night with Mrs. Ruth Haynie, Noble Grand, presiding. Mrs. Mildred Wray, District Deputy, presided, held a school of instruction later in the evening.

After the very interesting meeting, refreshments were served to those present who included Mr. and Mrs. R. Crawford and Miss Edith Adams of Fort Meade, Mr. and Mrs. O. D. Walker, Mrs. Tina A. Terry, Mrs. Gertrude and Miss Helen Dykeman of Lake Wales, Mr. and Mrs. C. H. Johnson of Ocala, Mrs. Fannie Spink of Kissimmee, Hattie, Edna, Hester, Helen, Agnes Cox, Jean Carroll, Marie Haynie, Harriet Smith, Ruby Norton, Mr. and Mrs. C. W. Bridger, Cora and Mildred Wray.

Miss Mary Wells Married in Lakeland Sunday Afternoon

Orlando interest in Avon Park Sunday afternoon, June 1, at the parsonage of the North Park Baptist church in Orlando, the pastor, the Rev. W. R. Clark, officiating.

The bride was given in marriage by her brother, Robert R. Stewart. The couple was attended by Mrs. Robert M. Stewart, sister-in-law of the bride, and J. W. Cornell, brother of the groom.

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Jerry Connell Has Birthday Party

Jerry Connell, daughter of Mr. and Mrs. W. T. Connell, was twelve years old on Saturday, and in celebration of the event, was hostess at a birthday and swimming party from three to six in the afternoon. The guests gathered at the Connell home, where they played several interesting games and viewed the attractive birthday gifts, brought as a happy reminder of the occasion. Refreshments and fruit punch was served.

Later in the afternoon, the young people donned their bathing suits and were taken to Lake Hyrd for a delightful swim. Life guards present to look after the safety of the young people were George Robinson and Melvin Rogers. After the swim, the group gathered around the campfire and roasted winners which they enjoyed with pickles and rolls. Ice cream and cake were served. The pretty birthday cake being decorated in pink and white with twelve pink candles burning on top. Mrs. Connell was assisted in entertaining by Mrs. George Robinson and Mrs. Helen Wilson.

Friends sharing the party with Jerry were Glenn and Imogene Mingosford, Virginia Spencer, Mary Elizabeth Hall, Jack Rogers, Billy Connell, Nedra Mason, Helen Bradbury, Kenneth Harper, John Stewart, Henry Kipp, Alice House, David Lanier, Bill Hood, Charlotte Orr, Geraldine Witt, Ann V. n. n. Lillian White, Howard Todd, Ernest Bryant, Winifred Archer, Helen and Charbel Welch, and Janet Barker.

Hot-Diggity-Dog!

Millions of times a day, people everywhere enjoy a happy minute with ice-cold Coca-Cola. They like its clean taste and the refreshed feeling that follows. Thus the pause that refreshes with ice-cold Coca-Cola has become America's favorite moment.

THE PAUSE THAT REFRESHES

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LOVELY LAKELAND BRIDE



(Photo by Submitter-Cut Courtesy of Lakeland Sunday Ledger.)

Mary Jim Davis Has Lovely Party

Mary Jim Davis, attractive young daughter of Mr. and Mrs. James Davis was the hostess at a most delightful party given by her mother on Saturday afternoon. The party was in observance of her fifth birthday anniversary.

Flowers, in pretty summer shades adorned the party room, to emphasize a color note of pink and blue. Many pleasant children's games were played during the afternoon and the dainty birthday gifts were opened and admired.

At five o'clock, the young guests were invited into the dining room, where they were served delicious refreshments of ice cream, cookies and cake. The colorful birthday cake that centered the table, overlaid with a white linen cloth, was laid in white, topped with pink candles in blue holders. Paper plates and napkins, in the children's colors were used. All the children gathered around the table and sang "Happy Birthday," and Mary

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Moffetts Entertain Thursday Evening

Mr. and Mrs. Chas. H. Moffett entertained members of their club and a few additional friends at a delightful party at Lake Lodge Thursday evening. Attractive bouquets of summer garden flowers decorated the lounge, where the tables were arranged for bridge. High score prize, a pretty linen lunchbox set, was given to Mr. and Mrs. Lester Armstrong; second high, a bottle of sugar and creamer, was won by Mrs. Armstrong was the recipient of the finishing award. Tempting refreshments of sherbet and angel food cake were served late in the evening.

Guild Members Have Interesting Meeting

Following a successful communion at 9:30 at the Episcopal church on Wednesday morning, members of St. Margaret's Guild met at the home of Mrs. Norton Smith for an all day meeting, and covered their luncheon. Several members served on vestments for the altar guild. The dainty luncheon was served at noon.

Mrs. Walter S. Betts, president of the organization, conducted the business meeting in the afternoon. A food sale was planned for Saturday, June 15 with Mrs. Alexander Gilmore and Mrs. E. G. Todd in charge. It was announced that the next meeting will be held June 19 at the home of Mrs. George Voorhees.

After the meeting, Fr. R. I. Brown, in connection with the course of instruction, conducted the business meeting in the afternoon. A food sale was planned for Saturday, June 15 with Mrs. Alexander Gilmore and Mrs. E. G. Todd in charge. It was announced that the next meeting will be held June 19 at the home of Mrs. George Voorhees.

Those attending the meeting and luncheon were Mrs. Walter S. Betts, Mrs. M. E. Conroy, Mrs. J. R. Francis, Mrs. Alexander Gilmore, Mrs. Dennis Mandia, Mrs. Harriet O'Leary, Mrs. E. T. Truitt, Mrs. Norton Smith, Mrs. W. A. Roberts, Mrs. Trish, Mrs. George Voorhees, Mrs. W. Zimmerman, Mrs. M. S. Swearingen, and Fr. R. I. Brown.

Thursday Club Has Delightful Party

A delightful party of Tuesday afternoon was given at the home of Mr. and Mrs. C. R. Lanier, when they entertained members of their club at bridge. Roses and summer garden flowers were used in effective decoration.

High and second high awards when scores were totaled, were given to Mr. and Mrs. Earl W. Hartt, and to Mr. and Mrs. Walter S. Betts. Both attractive prizes were modernistic glass flower containers. Enjoyable refreshments of ice cream and cake were served.

Those playing were Mr. and Mrs. Earl W. Hartt, Mr. and Mrs. T. A. McVinch, Mr. and Mrs. R. R. Brown, Mr. and Mrs. Walter S. Betts, Dr. and Mrs. D. G. Rogers, and Mr. and Mrs. Lanier.

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Girl Scout Notice

BIRD SCOUT NOTICE
Girl Scouts working to pass their Second Class Civic Badge, are requested to see Mrs. Max Purdie Monday, June 10, at the school, from 10 to 12 A. M. or 1 to 4 P. M.
Mrs. Sue Yates, Captain

EPISCOPAL CHURCH SERVICES

Holy Communion 7:30 a.m.
Sunday School 9:30 a.m.
Holy Communion and 11:00 a.m.
Richard I. Brown, reader

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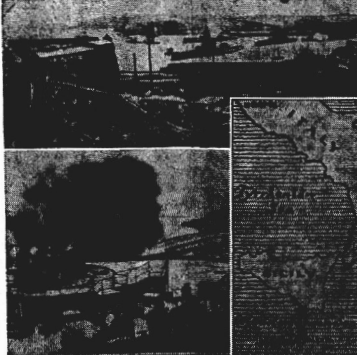
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WEEKLY NEWS ANALYSIS BY ROGER SHAW

Fighting Shifts From Flanders
As Nazi Air Force Bombs Paris;
Malta Looms as Trouble Spot(EDITOR'S NOTE—When opinions are expressed in these columns, they are those of the news analyst and not necessarily of this newspaper.)
Reprinted from Western Newspaper Union.

It Italy should move against Great Britain in the Mediterranean she might very likely direct an attack at the great British naval base at Malta. Malta has been on a war footing since the beginning of the European crisis. May at the right shows the relationship of Malta to Italy. Vulnerable perhaps in bombing attacks it would be a tough nut for German naval forces to crack by sea. Top left is a view of the harbor at Valetta with British men of war at anchor. Below, one of the big coastal guns that ring Malta is blazing away during gunnery practice.

(SEE ITALIC NOTES)

II GERMAN WAR:
Flanders Battle

The Dutch-Belgian-Flanders-Artis battle came virtually to an end, save for mop-up and kitty-corner operations here and there. The Dutch and Belgian armies had been surrounded or finished, and the First, Seventh, and Ninth French armies were destroyed. Nobody came out of it with any laurels save the British navy, which somehow succeeded in ferrying perhaps two-thirds of the British army out of Dunkirk by means of warships, transports, yachts, barges, and life-boats—and under heavy aerial fire. It seemed that the German air force fell down on this debarkation operation, for British losses, in return, were smaller than might have been expected. Somehow, the allies secured a temporary air supremacy in the Dunkirk sector, and the British Spitfire machines showed a slight superiority to the German Messerschmitt combat craft. British morale, strangely enough, was reported as excellent, but French morale did not appear to quite so favorable a light. The German general headquarters was strangely restrained in its moment of triumph. Lille, fourth city of France and its "fourth city" was in German hands, along with Amsterdam, Rotterdam, Brussels, Antwerp, Ostend, Calais, Boulogne, The Hague, Liege, etc. Would refugees, and the British in Paris be next, wondered the railbirds?

Even as these railbirds wondered, the allies and rain-soaked bombs upon southern France and later upon Paris itself. The first attacks about 150 German bombers swept over the city, dropping their cargoes of high explosives, setting many fires, inflicting huge property losses and killing at least 40 persons in Paris and its suburbs. The allies promised to repay Germany bomb for bomb in the new air offensive they were launching.

NAMES

... in the news

Former French Generalissimo Gamella was said to have committed suicide, while General Cassin, chief of the French Ninth army defeated at Sedan, was reported as executed. General Bodet of the French Ninth army corps got six months in jail for abandoning his post in the ill-fated Sedan sector. Thus did the Republic crack down. General Robert Le May, leader of the National Security league, which favors increased preparedness and is strongly "anti-subversive" in its outlook, was sentenced to 10 years in the penitentiary.

Proving that American isolation sentiment was by no means dead, some 7,000 earnest citizens prayed for peace, assembled at St. Patrick's cathedral in New York. With the Catholics, members of the peace-minded, despite war propaganda-participated. Here were 7,000 Americans but highly important names in the news.

Joe Batten, well-known and well-liked young aviator, was exhibited as an ambulance driver in the Anglo-French corps, hooked up with the Galtie army. He looked wonderful in uniform.

'Sixth Column'

Again Is Raised the Question of Who Made the First Camera in the U. S. and Took the First Photographic Portrait

By ELMO SCOTT WATSON
(Continued from Western Newspaper Union.)

WHO made the first camera in America? What pioneer photographer first used a "fast action" picture-taking machine to get a successful portrait of a human being? According to a recent Associated Press dispatch from Hampden Sydney, Va., honors belong to Dr. John William Draper, an Englishman who was educated at the University of Pennsylvania, became a professor of chemistry at Hampden Sydney college more than a century ago and achieved a wide reputation not only in chemistry but in physics, history and philosophy as well. This dispatch said:

An old box-shaped camera left at Hampden Sydney college in 1833 by Dr. John William Draper is going to be taken from its century-old resting place to a niche in the Smithsonian Institution, officials of which have accepted it as the first camera in America and the first "fast action" camera in the world. The presentation probably will take place at the June commencement.

To prove that it was the first camera of modern type, years of research was conducted by the Rev. Howard C. Cobbs, president of the Smithsonian Institution, and the first "fast action" camera in the world. The presentation probably will take place at the June commencement.

The college asked Mr. Cobbs to make a picture of the camera in 1933 for the Smithsonian Institution. The young student, president of the college, J. H. C. Bagby, professor of chemistry, tried it with modern film and it worked. He found that Dr. Draper made his famous "first portrait" of a living person in the Smithsonian Institution in 1839, soon after leaving Hampden Sydney.

Mr. Cobbs became convinced that the camera here was older than the one used at J. Y. U. Washington. He found just what he needed, and it was in Dr. Draper's own words in a letter to the Smithsonian Institution, published in 1888, in answer to an inquiry "who made the first photograph of a living person?"

Dr. Draper explained that he had worked with sensitive plates before any were put out in Europe by Daguerre or Talbot; that he had tried a lens of large aperture and had found it expedient to use action enough to permit portraits of living persons; that he succeeded in making a portrait of a man, and that he had obtained a lens. The telescope is here and will be presented with the camera.

His connection with portraits, he said, dated to the summer before publication of Daguerre's process. Daguerre's process was published in August, 1839. Dr. Draper went to New York in September, 1839, and with Daguerre's more sensitive plates and his methods succeeded.

He had discovered the more sensitive plate, Virginia might have claimed the honor of the first portrait as well as the first camera. Despite the assertions in that news story, however, it is possible that some one may soon rise to challenge Dr. Draper's right to the honor of having made the first camera in America and being the first to get a successful portrait. Here's why:

Last year was celebrated the centenary of the French chemist who made the first camera. Louis Jacques Mande Daguerre, the Frenchman who was universally acclaimed as "The Father of Photography." On the eve of the celebration the Marquis company of New York published "Photography and the American Scene—A Social History, 1839-1889," the result of more than six years of research by Dr. Robert Taft, grandchild of Daguerre at the University of Kansas.

In the first two chapters of his book, Dr. Taft gave a well-documented account of the work of the pioneer "daguerotypes" in this country who became interested in the new art very soon after articles about Daguerre's process had been reprinted from French and English journals in American newspapers as early as March, 1839. One of these was D. W. Seeger, an Englishman, who was living in New York in 1839. As a result of Dr. Taft's investigations he makes the statement that Seeger "was the first person to make a successful daguerotype in the United States; which he did on September 7, 1839."

DR. JOHN W. DRAPER
(From an ambrotype made by Matthew W. Brady about 1857.)

here who succeeded in obtaining portraits from life." "It will be noted that the letter is dated July 25, 1840, and that no reference is made to the date on which the portrait was made," comments Dr. Taft. "It will also be noted that the exposure of this early daguerotype portrait was an exposure of 15 to 20 minutes, which have evidently been based upon such general information as was available in Seeger's exposure table (printed in the American Repository of Arts, Sciences and Manufactures for March, 1840), the first ever printed in this country."

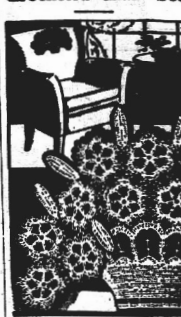
In September, 1840, Draper published an article in the Edinburgh, Edinburgh and Dublin Philosophical Magazine in which he described in detail his method of making photographic portraits, such as the one of his sister. He stated that in his earlier attempts he had used the face of the person sitting for the portrait with white powder (probably flour) to secure greater contrast but that a few trials showed him that there was no advantage in this. The greater illumination on the subject he used nitro to reflect the sun directly upon the sitter. "In the reflected sunshine, the eye can not support the brilliancy of the rays. In order to support the head and keep it still during long exposures, a staff terminating in an iron ring was attached to the chair and the subject was arranged as to have motion in all directions to suit any attitude and any altitude of the instrument of texture."

The earliest photographic portrait which has survived. It is a daguerotype of Miss Dorothy Catherine Draper, made by her brother, Dr. John W. Draper, probably in the summer of 1840.

These attempts were based on such scientific principles as were then known; he sent abroad an early daguerotype portrait, apparently the earliest which had survived; he published an extensive account of these experiments, thereby enabling and encouraging others to benefit from his experience; and he became associated with Morse in the opening of an establishment for the purpose of taking portraits, thus becoming one of the "daguerotypes" of a new profession."

Dr. Taft's mention of "the earliest daguerotype portrait which has survived" is a reference to Draper's famous portrait of his sister, Miss Dorothy Catherine Draper, which is still in existence and which is owned by the Rev. Sir John C. W. Herschel of England, grandson of Sir John F. W. Herschel, the distinguished English scientist to whom Draper sent it in the summer of 1840. It was accompanied by a letter, the text of which is printed for the first time in Dr. Taft's book. In this letter Draper stated that "I believe I was the first person

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figure, according to the

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