

Keeping Up With Science

By Science Service

Famed Ancient Colors Bettered by Modern Dye Manufacturers

Tyrian Purple and Blue of Egypt Are Debunked

New York.—Our modern age is sometimes criticized for doing things in a big way. We turn out paints by the vat; dyes by the carload. It is supposed to be a sad change from the good old days when Egyptians mixed colors that would last 4,000 years, and when Tyrians patiently extracted drops of royal purple from shellfish.

But chemists who concoct our up-to-date colors can well defend themselves. They long ago investigated the Tyrian purple legend and showed that this famous dye is no regrettable lost art.

True, the dye makers of Tyre achieved a sort of miracle by milking thousands of snail-like shellfish to get the lone whitish drop from each head. In the air the white stuff turned green, then blue, then purple. Finally, set by alkali, it became the crimson that Tyrian purple actually appeared.

Our Chemists Do Better.

But, the chemists explain, the only reason debutantes and shop-girls aren't wearing royal purple today is because better crimson dyes are known. Laboratories could make it by the ton, but you wouldn't buy it.

It is the same with the famous Egyptian blue used in decorating walls in Egypt, and later in Rome. Recently, research scientists for a printing ink corporation tested this blue, because of its reputation for permanency. Gently handling specimens of Roman wall painting, they analyzed the blue color by a spectro-photometer. They found the Egyptian blue a good deal like modern ultramarine. It was fast to light, heat, salt water, and mild acids. But—it did not come up to modern standards.

Men Not Born Equal, Study of Primitive Races Evidences

New York.—All men are not born equal. Scientific evidence, long lacking or insufficient, now points to genuine mental differences between races apart from the more superficial superiority that results from advantageous geographic location, proximity to other peoples, and a background of culture or civilization.

It has been natural to suppose that men differ from each other mentally as they do in the more obvious matters of skin color, shape of nose, or curliness of hair. But procuring scientific proof of such differences was a stupendous task.

The test with which an American child is given an I. Q. rating is obviously not suited to an adult African Bushman. Written tests are automatically barred for the illiterate.

So-called performance tests are almost equally useless. The uncivilized man cannot understand the directions necessary, the pictures are meaningless to him.

A new attack is provided by comparing two primitive peoples not with civilized man but with each other. Dr. S. D. Porteus, psychologist widely known for his psychological maze tests, has gone to the desert wastes of central Australia and to the home of the Kalahari Bushmen in South Africa.

Despite better food and water supply and easier living conditions, the Bushmen excelled the environmentally unfavored Australian aborigines in only two respects, Dr. Porteus reports in a new book, "Primitive Intelligence and Environment" (Macmillan). They offer more determined resistance to white invaders and they are more skillful artistically.

Cinnamon Trees Grew in Texas Many Years Ago

Stephenville, Texas.—Cinnamon trees once grew in what is now Texas, millions of years ago, when there were dinosaurs to browse on their leaves.

A group of fossils which include leaves of plants like cinnamon, sassafras, sarsaparilla, and maple, found near here, are described by Prof. O. M. Ball of the Agricultural and Mechanical College of Texas in the Journal of Geology.

Utah Fossil Tract Last Pasture of the Huge Sauropods

These Reptiles Famous for Having Two Brains

Washington.—The bones of a sauropod, gigantic dinosaur that made the world picture of 150,000,000 years ago a nightmare, have been found in a western Utah fossil tract that may have been the last pasture where the last of the fabulous-looking reptiles awaited their final end, the Smithsonian Institution announced.

Another chapter has thus been written in the curious history of the forty-ton monsters and their smaller racial brothers that peopled the world hundreds of millions of years ago and then utterly disappeared.

The bones, found by Dr. Charles W. Gilmore, the Institution's paleontologist, are only 80,000,000 years old as against the 150,000,000 year age of most of the dinosaur remains, giving rise to the belief that the western Utah tract where they were found may have been the spot where the monsters met extinction.

Insufficient materials to reconstruct the sauropod, known from other specimens to have ranged between 75 and 100 feet in length and 40 to 50 tons in weight, were found. But enough evidence was uncovered by Doctor Gilmore to add significantly to previous knowledge regarding these creatures.

Last Round-Up of Reptiles.

True mammals were already beginning to appear in North America at the time that the last of these massive creatures were making a last stand against probable climatic changes that cut off their food supply.

The last round-up, with drought and chill over the semi-tropical forest which at that time covered North America as the herders, may have taken place in Utah in the neighborhood of the fossil finds. Scientists have been unable to proceed further than such speculation in accounting for the disappearance in a very short time of the giant reptiles of the Cretaceous era.

The sauropods are famous not only as the largest land creatures, but because they had a small brain in the head and a second "brain" in the hindquarters for controlling the movements of the hind legs and tail, in much the same fashion as a hook-and-ladder fire truck.

Finding the sauropod bones in the 80,000,000 year old beds was called "more remarkable than finding a living mastodon or saber-toothed tiger" by the Smithsonian institution.

More Broken Necks Are Due to the Automobile

Chicago.—More people are getting their necks broken these days than in the horse and buggy era, and the automobile is responsible, Dr. H. F. Plaut of Cincinnati told members of the Congress of Radiology here.

The particular part of the neck which gets broken is the atlas, the first vertebra at the base of the skull which forms the pivot on which the skull rotates.

"Previously fractures of the atlas were reported among longshoremen and in gymnasium accidents," Dr. Plaut recalled. "Now automobile accidents throw riders against the tops of cars and pitch them to the pavement with many cases of fractured atlases."

Most of these patients recover and are fully active, Dr. Plaut said. Fractures of the skull above the atlas are more dangerous.

The atlas is not easily injured by direct violence because it is well protected by other bones and is deeply imbedded in surrounding soft tissues. But in a head-on fall the force is directed against the weakest part of the atlas by the pressure of the skull at this point.

Picnic Site of Oldest Inhabitants Is Found

Minneapolis.—Two thousand knife-marked bones, remnants of ancient feasting in the northern lake region of Minnesota, have been discovered at a camp ground of America's earliest people.

Prof. A. E. Jenks of the University of Minnesota announced the find to the Journal of Science. That the scene reveals very old inhabitants is indicated by finding bones of a kind of bison, long extinct on this continent, among the bones of bear, elk, caribou and other big game animals in the kitchen refuse. The feasters also left knives and other tools of bone and stone.

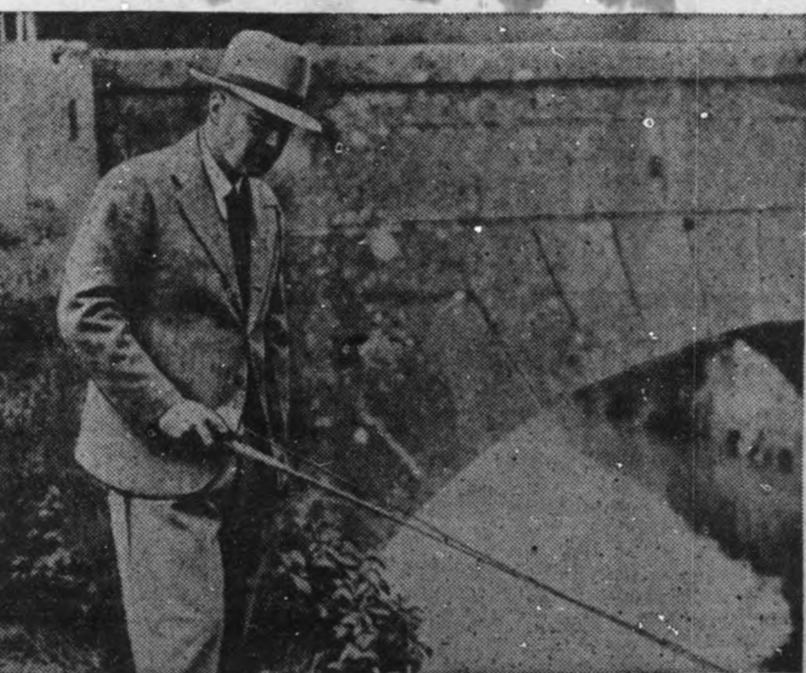
The kitchen dump, abandoned thousands of years ago, is buried three to nine feet under a bog of grasses and marsh weeds, in Itaska State park. Professor Jenks has been excavating the site in co-operation with the state conservation commission and the federal government.

Scenes and Persons in the Current News



1—George Fort Milton, prominent Chattanooga publisher, who has been named as special assistant to Secretary of State Cordell Hull. 2—Frank McNinch, President Roosevelt's new "trouble shooter," is sworn in as chairman of the federal communications commission. 3—Announcing that he and his bride will soon visit the United States, the duke of Windsor accompanies his wife to a Parisian modiste.

Ambassador Goes Fishing



William C. Bullitt, United States ambassador to France, enjoys some fishing in a stream near Chantilly, France, as he and his daughter spend a holiday at the castle of Bois St. Fermin.

STARFISH PRINCESS



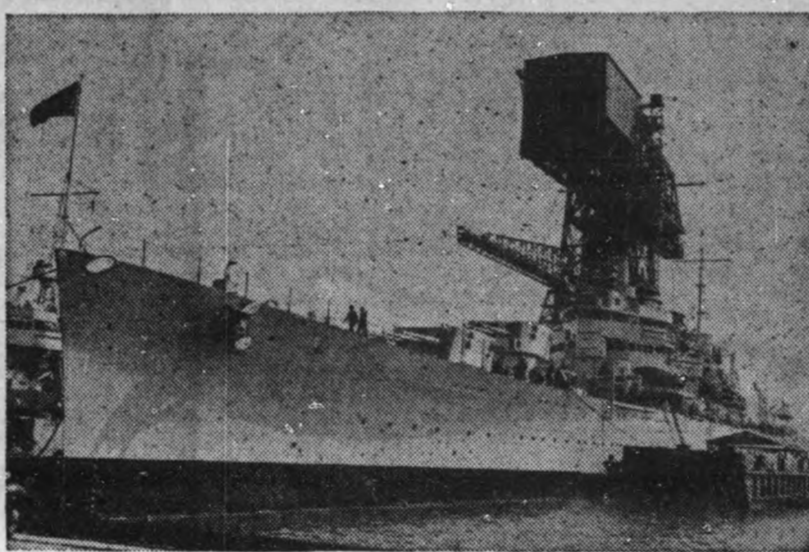
She'll star in aquatic events at Long Beach, Calif. No pun intended, but Miss Aileen Zulawnik has been selected as the "Starfish Princess" to preside in fall and winter events at the famous southern California beach resort. She is shown in her starfish costume.

ROSE IN HER HAIR



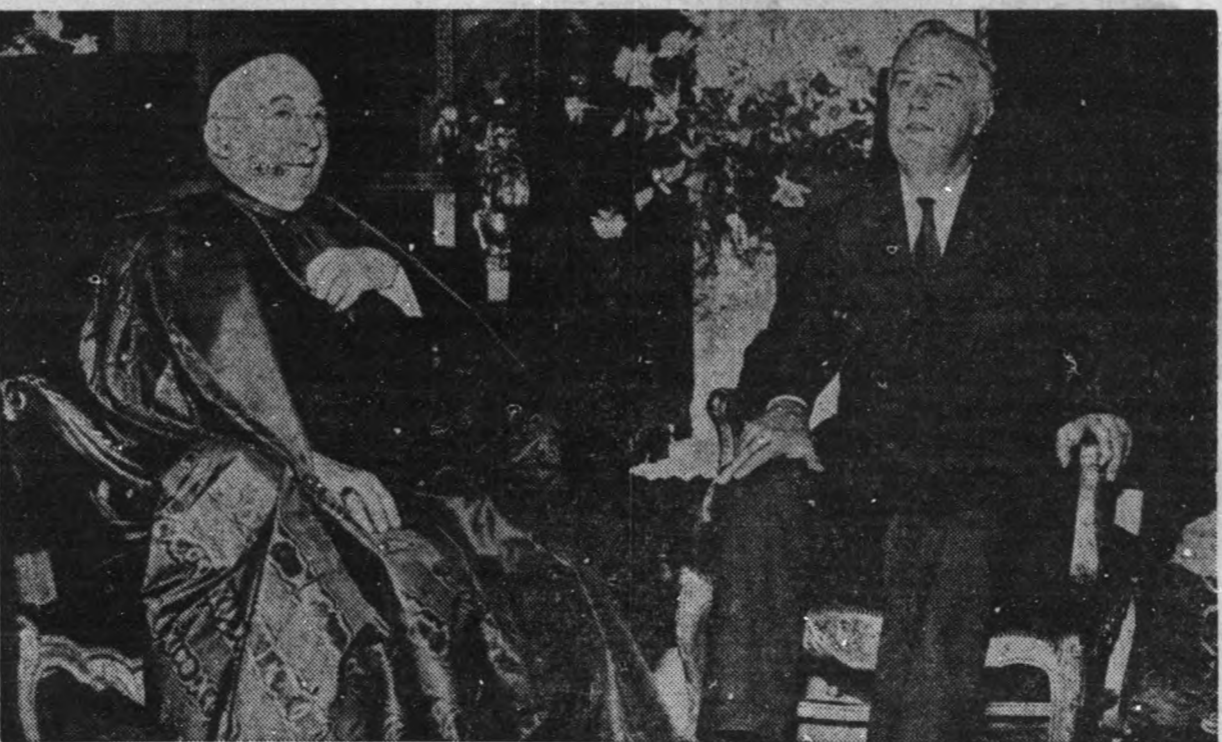
A rose by any other name—even "chapeau"—is still a beautiful thing to look at. Particularly is this true when its wearer is as chic as Miss Lucy Saunders, society girl of Belmont Park, N. Y., who is pictured here, modeling something different in hats. It is made of robin's-egg-blue crepe, draped to resemble a rose perched on top of her head.

New U. S. Cruiser Commissioned



A general view of the 10,000-ton cruiser Philadelphia, the fifth and largest vessel to bear that name, at the Philadelphia navy yards, where she was launched recently. The \$14,750,000 vessel is commanded by Capt. Jules James, formerly attached to the United States Naval academy. The construction of this cruiser was part of the administration's program to strengthen the nation's naval forces. The program included the construction of a number of other fighting ships.

President Pays Call on a Cardinal



President Roosevelt is pictured as he chatted with George Cardinal Mundelein in the prelate's Chicago home, where the President was a luncheon guest on the occasion of his recent visit to Chicago. The President and Cardinal Mundelein have been close friends for a number of years.

STAR DUST

Movie • Radio

By VIRGINIA VALE

WHILE all the important motion-picture producers were trying to interest Ronald Colman in big, serious dramas, he slipped over to the Hal Roach studio and agreed to star in a goofy comedy called "Fancy Free." No one else even suspected that Ronnie wanted to join the parade of serious players who have scored in light offerings.

His best friend, Bill Powell, is suspected of selling him the idea. Bill has such fun making comedies, and so do Myrna Loy and Carole Lombard, and the newest recruit, Constance Bennett. I would not be at all surprised if Constance were to play the lead opposite Colman.

Now that Bill Powell is wandering around Europe, Myrna Loy is going to stray over to the Twentieth Century-Fox studio to make a picture with Warner Baxter, her second-best leading man. The story is "Carcer in C Major," and is all about a woman with a not-so-good voice who is absolutely determined to get into grand opera. Her husband views the whole project with distaste, until he finds that his barber-shop chord barytone is just what the opera scouts have been looking for.

Just as soon as a radio performer makes an outstanding hit, the motion picture scouts grab him, so now it is Professor Quiz who is going to step before the camera. He and James Wallington, the ever-popular announcer, are going to be in Columbia Pictures' "Freshman Follies."

The tremendous popularity of "The Prisoner of Zenda" has revived interest in swashbuckling mythical kingdom romances, so Sam Goldwyn has decided it is high time to film "Graustark" again. It has been made twice before, but not in the gorgeous way that Sam will make it. He plans to have Merle Oberon play the beautiful princess and Gary Cooper the American newspaper man who rescues and marries her.

Since he subbed for Don Ameche on the Charlie-McCarthy-Nelson Eddy program, Herbert Marshall is the most-sought-after actor in Hollywood for radio programs. If any sponsor could persuade him and Claudette Colbert to appear regularly together, the program's popularity rating would be sure to start near the top. But just wait until you hear Brian Aherne's voice in the Warner Brothers' picture, "The Great Garrick." He is going to give Mr. Marshall some competition.

Phil Spitalny is being ribbed by his friends, and all because he ran into difficulties while filming a Paramount short film featuring his Hour of Charm All-Girl orchestra. They all worked hard, finished the film on schedule and went home satisfied that they had done their best. But the studio called up next day to protest that a man's voice could be heard in the midst of the all-female chorus. Spitalny went to hear the sound-track played, pretty indignant that their work had been spoiled. Only to find that it was his own voice on the film.

Motion-picture fans who have been lamenting because so many of their Hollywood favorites have abandoned the screen for a fling on the stage can just stop worrying. So far the plays have not been good enough to hold the players for long. Sylvia Sidney, Henry Fonda, and Elissa Landi will probably be back at Hollywood at work in pictures before very long. But Frederic March, undimmed by their so-so success, is headed for New York with his wife to do a stage play.

ODDS AND ENDS—Walt Disney has finally vetoed the plan to put Mickey and Minnie Mouse on a weekly radio program. Can't spare the time to see that it is done right, and won't let his little darling Minnie and Mickey be directed by anyone else. . . . Alice Faye did not like the dressing room Universal studio provided for her, so she not a moving van to bring her own dressing room bungalow over from the 20th Century-Fox lot. . . . Olivia de Havilland has eliminated all the other candidates for the lead in "Robin Hood" opposite Errol Flynn. Each figure that the other brings luck to a picture. . . . Paul Muni and his wife are on a six-months' world cruise to the deep regret of all the companies who wanted him to make another picture right away.

Favorite Recipe of the Week

FRESH fruit pies are always good, but fresh grape pies are worthy of superlatives in description. The thickening may be cornstarch, eggs, flour or tapioca, depending upon preference. Tapioca is suggested in this recipe.

Grape Pie.
 3 1/2 cups prepared grapes
 2 1/2 tablespoons quick-cooking tapioca
 1/4 teaspoon salt
 1 1/4 cups sugar

Wash and stem the grapes. Press the pulp from the skins with the fingers. Simmer pulp slowly until soft, then press through sieve to remove the seeds. Combine 3 1/2 cups of pulp and skins together with salt, sugar and tapioca and let stand for 15 minutes. Place rolled pastry in pie pan. Fill pan with grape mixture. Moisten edge of pastry and fold inward, even with the edge of the pan. Moisten edge again and place top pastry on pie. Press edges together with a fork and trim off surplus crust. Bake in hot oven (425 degrees) for fifteen minutes. Decrease heat to 350 degrees, moderate heat, and bake about twenty-five minutes longer.

CARRY YOUR ALKALIZER WITH YOU



IF OVER-EATING CAUSES ACID INDIGESTION—

—HERE'S THE SENSIBLE THING TO DO

The fastest way to "alkalize" is to carry your alkalizer with you. That's what thousands do now that genuine Phillips' comes in tiny, peppermint flavored tablets—in a flat tin for pocket or purse. Then you are always ready.

Use it this way. Take 2 Phillips' tablets—equal in "alkalizing" effect to 2 teaspoonfuls of liquid Phillips' from the bottle. At once you feel "gas," nausea, "over-crowding" from hyper-acidity begin to ease. "Acid" headaches, "acid breath," over-acid stomachs are corrected at the source. This is the quick way to ease your own distress—avoid offense to others.

False Flattery
 People generally despise where they flatter and cringe to those whom they desire to supersede.—Marcus Aurelius.

Room for Courtesy
 Life is not so short but that there is always room for courtesy.—Emerson.

Do something about Periodic Pains
 Take Cardul for functional pains of menstruation. Thousands of women testify it has helped them. If Cardul doesn't relieve your monthly discomfort, consult a physician. Don't just go on suffering and put off treatment to prevent the trouble. Besides easing certain pains, Cardul aids in building up the whole system by helping women to get more strength from their food. Cardul is a purely vegetable medicine which you can buy at the drug store and take at home. Pronounced "Card-u-l."

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