

Keeping Up With Science

By Science Service

Scientist-Sleuths View Indian City Visited by De Soto

Ancient Louisiana Site Was Capital of Tribes

New Orleans.—A great Indian capital in Louisiana, visited by Hernando de Soto in 1542 in his weary quest for gold, has been explored to its depths by scientific excavators.

The modern archaeologists, seeking prehistory rather than gold, have better success to report than the Spaniards had.

Digging has revealed the career of one of the largest Indian "cities" east of the Mississippi. The great mound which has been explored was once built to a height of 80 feet, making it perhaps the highest Indian mound in the South.

A number of technical reasons for believing that this site is most probably the important Indian capital of Anilco, are found by Winslow M. Walker who explored the mound for the Smithsonian institution.

Was Thriving Community.

Accounts from Spanish conquest times describe this city as having about 400 good houses, with a beautiful square in the middle. The corn fields bore abundantly, and there were good stores of beans, maize, walnuts, and dried persimmons in this and surrounding towns. The Indian chief drew up before the town with a battalion of 1,500 picked men, but when De Soto's army advanced, the barbarian horde fled.

This Indian capital is now shown to have been an old, old settlement even then. The first settlers who started the great mound carried masses of clay in skin sacks and dumped and packed down the clay to build a platform. The detective science of archaeology infers from their broken pottery that these unknown Indian pioneers were very much like the famous Mound Building Indians of the Ohio valley.

Story of Mound Building.

Their mound building was interrupted when the platform was only a few feet high, and the raised place remained a camping site, littered by ashes, charcoal, bones and broken dishes while two little pecan trees grew up to mark the passing of time.

Then, Mr. Walker found, building was resumed by these people or others. With logs and cane layers and sand, a group of mounds were raised.

Invisible "Keep Out" Sign Makes Roots Stay Apart

Washington.—"No trespassing" signs are written in some kind of unexplored chemical language by growing roots, to keep other roots from invading territory which they have taken for their own.

Indications of this are graphically shown in a device invented by Prof. M. A. Raines of Howard university.

Professor Raines' new method makes the root system of plants visible throughout their entire growth. Against a slightly sloping sheet of glass he lays a sheet of dark paper or other absorbent material, kept moist by a series of wicks dipped into a supply of water. The roots sprouting from seeds placed at the top edge of the sheet grow down the moist paper, and can be studied in detail.

Ancient Roman Empire Is Being Surveyed

London.—Countries of the world that once formed part of the ancient empire of Rome are now making a survey of that one-time empire.

The French have completed their survey of the frontier in Syria, says a report to the British scientific journal Nature. A great part of the survey is necessarily being carried out by airplane, as many sites are in the desert and can only be spotted from the air.

Universe Growing Larger, Belief of French Astronomer

Reckons Milky Way's Age in Billions of Years

NEW scientific evidence has been produced that the universe is expanding, thus allaying the fears of those who worry because the sun and the stars are destroying themselves by turning their masses into the radiation they emit.

This evidence is presented in an article in the Astrophysical Journal published in Chicago.

M. Henri Mineur, astronomer at the Observatory of Paris, reports calculations showing that the stars of the Milky Way, despite their age of tens of thousands of millions of years, have only radiated away about one hundredth of their mass.

Thus if one takes M. Mineur's estimate that Milky Way stars are from ten to twenty billion years old, the apparent age of the universe, before all the mass is radiated away, would be about a trillion years. Compared to the life of a man who lives to be seventy-five years old, the star galaxy which contains the earth and the Milky Way is only a baby, about nine months old, and cutting its first teeth.

Upsets Other Theories.

Significant to astronomers is M. Mineur's calculations showing that the stars in the Milky Way must have been formed in the beginning with almost the same mass which they have today. Present held theories of star evolution, therefore, must go by the board if the French astronomer's calculations and the observations on which they are based are correct.

Says the French astronomer:

"The upper limit we have found for the age of the stars is so small that, in so brief a time, the great majority of the stars cannot have lost more than a hundredth part of their mass. We must therefore believe that the stars were formed with nearly the same masses as they have now, and that the difference in temperature and spectral type actually observed are due to the fact that the stellar masses were already different at the time of their formation.

"An evolution of the stars such as has been generally accepted is, then, impossible. Our result is, however, in perfect agreement with the theory of the expansion of the universe.

"G. Lemaitre has suggested a hypothesis for the formation of the extragalactic nebulae based upon his theory of the expansion of the universe, according to which the age of the Milky Way would not exceed ten thousand million years."

"Eat Eggs," Doctors Advise Sufferers With Arthritis

Richmond.—"Eat eggs" is the message of five doctors of the Medical College of Virginia to people who suffer from arthritis.

Drs. J. C. Forbes, R. C. Neale, O. L. Hite, D. B. Armistead and S. L. Rucker have found that diets which contain a great deal of sulphur and little carbohydrate are beneficial to sufferers from the painful disease.

Arthritis, these doctors find, is accompanied by the presence of indole in the blood. This is a chemical produced by the decomposition of body products. It has long been known to be deleterious.

To remove this indole the body needs sulphur. The Virginia doctors therefore feed their arthritis patients on diets which have such sulphur, such as is found in meat and eggs. To aid in preventing indole production in the body only very little carbohydrate is fed. Such foods as potatoes and rice are entirely eliminated.


Lapland Revealed as Warm in Stone Age

Stockholm.—More than 30 settlements of human beings dating from the Stone Age, or about the year 3000 B. C., have been unearthed in Swedish Lapland by Kurt Tinnberg, Stockholm, archeologist.

In a few months he has gathered some 3,000 flint tools, weapons, and utensils, said to be the most northerly ever found in Sweden.

THE CHEERFUL CHERUB

Strong-minded people always think Without their guidance I'll be lost. I don't mind being governed though, As long as I am never crossed.



WNU Service.

Household Questions

Use two spoons for turning a roast. A fork pierces the surface and allows the juice to escape.

Sandpapering baby's shoes before they are worn prevents slipping and saves many a fall.

To remove lime which accumulates on the inside of a tea kettle boil a strong solution of vinegar inside of the kettle, then rinse thoroughly before putting in water.

One-fourth cup of bread crumbs and two tablespoons of water added to each pound of meat when preparing hamburger steak makes a much lighter mixture. For seasoning use 1 teaspoon of salt, one-fourth teaspoon of pepper and one-half teaspoon of onion juice to each pound of meat.

If cream or custard sauce curdles put the vessel in which it is cooking in a pan of hot water and heat well. It will soon become smooth again.

When a recipe calls for macaroons and there are no more on hand, take a cup of dried bread crumbs, one-half cup sugar and 2 teaspoons almond flavoring, mix together and put in the oven to get very brown. This cannot be told from the real thing.

When preparing fruit salad sprinkle bananas, peaches, pears and apples with lemon juice or marinate with French dressing as soon as they are cut. This prevents discoloration from exposure to air.

SMILES

Better Yet
Aunt—You should always get up from the table hungry.
Tommy—I do better than that; I always leave the table empty.

The Game
"What's your name?"
"Marigold."
"I said your name, not your aim!"

Unheard Of
"When I was your age I went to bed when I was told."
"Oh, Granny!" said the modern child, "wherever was your personality?"

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... Just for Naming This Picture of Dr. Dafoe and the Dionne Quins

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- 42 FRIGIDAIRES
- 120 RCA RADIOS
- 1,000 CASH AWARDS OF \$2 EACH
- 3,000 CASH AWARDS OF \$1 EACH



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Today, more than ever, the healthy, robust Dionne Quins are a glorious tribute to the finest methods of child-raising. Today, and every day the Dionne Quins have Quaker Oats. To bring this fact to the attention of every mother, Quaker Oats is making a sensational offer of \$24,600.00 worth of wonderful FREE GIFTS! ... Just for the most original suitable names for this picture of Dr. Dafoe and the Dionne Quins, Quaker Oats is offering 4,168 gorgeous prizes—6 Chevrolet Sedans, 42 Frigidaires, 120 RCA Radios, 1,000 prizes of \$2 in cash, and 3,000 prizes of \$1 in cash! Half of these will be awarded on October 30th, 1936, the other half on December 15, 1936. ... Your grocer has all the details of this sensational offer. See him today and find out how to enter ... it may mean a wonderful free gift for you!

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TED LAUNCHES A NEW SHIP

DADDY, PLEASE HELP US BUILD OUR BOAT—IT'S FOR THE SHIP MODEL CONTEST AT SCHOOL NEXT MONTH!

STOP BOTHERING ME! CAN'T YOU SEE I'M TRYING TO READ?

BET THEIR MOTHER PUT THEM UP TO THIS! SHE CAN'T BEAR TO SEE YOU SITTING AROUND ENJOYING YOURSELF!

HEY! STOP THAT HAMMERING! WHY DOES THIS HOUSE HAVE TO SOUND LIKE A BOILER FACTORY ALL THE TIME?

THIS WHOLE FAMILY MUST SPEND ALL WEEK THINKING UP WAYS TO ANNOY YOU ON SUNDAY!

IF YOU WON'T HELP THE BOYS WITH THEIR BOAT, AT LEAST YOU MIGHT LET THEM WORK ON IT! YOU TOLD THEM TO!

THERE YOU GO! NEVER THINK OF ME, DO YOU? YOU KNOW I'VE GOT A SPLITTING HEADACHE!

WHAT DOES SHE CARE HOW BADLY YOU FEEL—JUST SO SHE CAN KEEP THOSE BOYS BUSY AND OUT OF HER WAY?

IF YOU'D CUT OUT COFFEE AND SWITCH TO POSTUM, AS THE DOCTOR ADVISED, I'M SURE YOU'D FEEL BETTER—

OH, ALL RIGHT, I WILL! JUST TO SHOW YOU THERE'S NOTHING IN THIS COFFEE-NERVES BUNK!

CURSES! I'M SUNK! POSTUM ALWAYS DRIVES ME OUT!

30 DAYS LATER

THERE! SHE'S ALL FINISHED! AND IN TIME FOR THE CONTEST, TOO. BET WE WIN A PRIZE WITH THIS ONE, EH, BOYS?

DAD DESERVES A PRIZE ANYWAY—HE'S BEEN A PRETTY FINE FATHER SINCE HE SWITCHED TO POSTUM!

OF course, children should never drink coffee. And many grown-ups, too, find that the caffeine in coffee disagrees with them. If you have headaches or indigestion or can't sleep soundly... try Postum. It contains no caffeine. It is simply whole wheat and bran, roasted and slightly sweetened.

You may miss coffee at first, but after 30 days you'll love Postum for its own rich, satisfying flavor. Postum comes in two forms—Postum Cereal, the kind you boil, and Instant Postum, made instantly in the cup. Either way it is easy to make, delicious, economical, and may prove a real help. A product of General Foods.

FREE—Let us send you your first week's supply of Postum free! Simply mail coupon.

GENERAL FOODS, Battle Creek, Mich. W-A 10-17-36
Send me, without obligation, a week's supply of Instant Postum Postum Cereal (check kind you prefer).

Name _____
Street _____
City _____ State _____

Fill in completely, print name and address. If you live in Canada, address: General Foods, Ltd., Cobourg, Ont. (Offer expires July 1, 1937.)