

Cosmic 'Smoke'-Debris

Left by Celestial Blast
A great mass of shining cosmic "smoke," the Crab Nebula, tentatively has been identified as the debris left by a titanic celestial explosion that was observed by humans in the year 1054.
Late findings regarding sky blasts and behavior of a variety of freak stars have been reported to the Astronomical Society of the Pacific by Dr. Paul W. Merrill of Mt. Wilson observatory, Los Angeles. In 1054, a star previously invisible, exploded with such an outpouring of light that it could be seen even at noon on a sunny day. Superstitious persons feared the end of the world was at hand. The "peculiar character and observed rapid expansion of the Crab Nebula," Dr. Merrill asserts, "suggest that it may be the remains of the temporary object recorded by the Oriental observers."
Comparing the sun to an electric lamp, the Mt. Wilson astronomer calculates that every minute the sun delivers \$60,000,000,000 worth of light and heat to the earth.
"Figure up a month's bill if you care to and then recall that the earth receives less than one two-billionth part of the sun's total output, most of which travels out to the abyssal depths of interstellar space. Most stars maintain a perfectly regular, trouble-free power delivery service."
"Of course it is possible for electric currents in homes to pulsate, giving rise to fluctuations in the brightness of our lamps. This behavior is matched by certain stars that change their brightness in a regular, periodic manner. Thousands of these variables have been discovered."

Precious Vitamins Lost
With Improper Cooking

Good-bye, vitamins!
Down the drain they go, carrying away all their precious health and beauty elements—A for resistance, B1 for pep, C for strong teeth, D for body tone, G for digestion.
Often people whose menus really have enough vitamins lose them in cooking. They put too much water on vegetables, cook them too long and then throw the liquids away. Or they may add soda (enemy of vitamins) to keep the green color, which can be retained only if the food is cooked in an open kettle.
To get all your vitamins, use only a little water in cooking and then save the water for soups, sauces and gravies. Don't stir air into foods while cooking or put fruits or vegetables through a sieve while hot.
Excellent sources of Vitamin A are sweet potatoes, egg yolks, liver, green and yellow vegetables and fruits.
Vitamin B1 is plentiful in milk, whole wheat and beans. Vitamin C in tomatoes and the cabbage family. Vitamin D in fish-liver oils.

Suez Canal

The Suez canal is the jugular vein linking Britain with the oil fields of the East and her oriental possessions. Protecting that narrow strip of water is Egypt, one of the mysteries of World War II.
To understand Egypt's position in the present war, you must appreciate her relationship with England. Modern Egypt was a part of Turkey, became a British protectorate in 1914. This expired in 1922, and the country was made a kingdom. British influence remained strong.
The Egyptian government justifies its non-belligerency with the contention that it is living up fully to its obligations under the Anglo-Egyptian treaty of 1936. This provides that if Britain enters a war, Egypt will place at the disposal of the British her airports, harbors and all means of communication. That says the Egyptians, has been done.

Hat Stops 'Em

Alf Hagen, Edmonton, Alta., 19 invested \$1.50 in a straw hat and hopes it will take him to Toronto via the hitch-hike route.
"I've hitch-hiked all over the province and into Saskatchewan," Hagen said, adjusting his straw bonnet, "and I've learned you must wear something which will catch the eyes of motorists. Last year I wore a dark blue suit with a bright yellow scarf. That stopped 'em. This time it's going to be the hat," he grinned. "Look at me. Do I look like a thing? You'll agree that I look like anything but well when the motorists come by and see what they think is a sap with a straw hat, they won't hesitate to pick me up. Plenty of motorists would pick up hitch-hikers but they're afraid they might be picking up a robber or something."

Occupied France

The present invaded territory of northern France includes only five of France's 90 provinces—Ardenne, Aisne, Nord, Somme, Pas-de-Calais—and part of two others—Meuse and Marne—but represent one of the most important agricultural sections of the country, according to the office of foreign agricultural relations of the U. S. department of agriculture.
In 1938 these seven provinces produced 5,000,000 short tons of sugar beets, or over half the total French production; 67,000,000 bushels of wheat—over one-fourth of all wheat harvested; and 326,000 bushels of flax, or one-third of all French production.

Mummified Miniature

Man Found in Rockies
One of the most unique anthropological finds ever recorded on this continent was made in October, 1932, in the Pedro mountains, a chain of the Rockies, about 65 miles southwest of Casper, Wyo., by two gold prospectors, Frank Garr and Cecil M. Main. These men were blasting with dynamite in a gulch at the foot of one of the chains of mountains comprising a rugged range. The explosion opened up a natural cave approximately 15 feet long by four feet wide and four feet deep. Upon closer investigation, Main discovered, after crawling on his hands and knees through the small opening, an archeological freak in the form of a mummified miniature man, squatting on a rocky ledge with arms folded, head bowed slightly and legs in a semi-kneeling posture.
The little pygmy measures 6 1/2 inches in its squatting position, approximately 18 to 20 inches in standing position, weighs three-fourths of a pound, but is thought to have been much heavier in life. The noticeable features are the bronze skin, low forehead, flat nose, flat, unintelligent head with a fringe of black and gray hair. The sex of the specimen is plainly masculine, with its determining organs well preserved. It has a full set of teeth and its eyes, although glazed, appear distinctly. It is estimated that the pygmy was approximately 65 years old at death. There are noticeable traces of very fine hair on the body. An X-ray picture of the mummy reveals human vertebrae and all other identifiable bones of the body even to the muscles. The left clavicle bone shows a fracture and marks on the body indicate that death undoubtedly resulted from wounds. Also discernible by X-ray is the food in the stomach, which appears to have been raw meat. The teeth in the front of the mouth are pointed and of the flesh-eating variety.

Hot air registers are always placed in inside walls. This is important. Cold air returns are located on outside walls, usually underneath bay windows or near outside doors. These are flush with the floor and permit the cold air to flow through attached ducts back to the furnace for reheating. In the case of a pipeless furnace, there is only one hot air register, this is centrally located in the first floor in such a manner as to evenly distribute the heated air throughout all the rooms of the house.
Warm air furnaces should be located as near the center of the basement as possible and favoring the coldest side of the house. This is done to equalize warm air distribution upstairs. To aid in this, where warm air ducts are installed, turn dampers are placed in the ducts and these can be manually operated so that just the right amount of heat is furnished to all the rooms.
Cold air return ducts should connect into the base of the furnace shell below grate level, otherwise they may act as warm air leaders, hindering the air circulation.

Convert Waste of Citrus
Orchards into Dry Feed

Florida is now using its tremendous crop of grapefruit and oranges to produce milk, butter and other dairy products. It has been discovered that the pulp of citrus fruits can be dried and ground up to make a nutritious and valuable food for milk cows and beef cattle.
Florida rates next to Texas as a cattle-raising section. Around Kissimmee and Arcadia over 1,300,000 head of cattle roam wide and fertile ranges.
By actual test, it was reported by scientists P. T. Dix Arnold, Dr. R. B. Becker and Dr. W. M. Neal of the Florida State Agricultural station at Gainesville, the dried citrus pulp is just as high in nutritive value as dried beet pulp which has been widely used as a cattle feed for many years in other sections of the country. They tested milk cows fed on the grapefruit and orange feed diet and found that their milk production held up both in quantity and quality.
More than 18,000 tons of dried citrus pulp was processed as a cattle feed last year by plants in central part of Florida. A dozen new processing plants have gone up this year and a new industry seems to be on its way.

Animals in News

Animals come in for their share of odd news: In New Hampshire the owner of an animal farm uses an elephant to do his plowing. In New York state a pair of bee owners have returned from a winter vacation with their 1,500 swarms of bees. The insects gathered 40 barrels of orange blossom honey in Florida. A naturalist figures the average bulsnake as worth about \$400 a year to a farmer because of the crop-destroying rats and mice it kills. A pigeon in Kansas was mildly surprised when a hen laid an egg in its nest. But the pigeon was game. It patiently hatched the egg and formed food for the rapidly growing chick. But, when the chick refused to follow its companion squab in flying, the pigeon gave up in disgust and kicked it from the nest.
Hair can be permanently waved more effectively by a preliminary conditioning treatment with ultra violet rays, according to a patent issued in the U. S. A.
Softness, elasticity, and sheen are improved by the new method of waving, it is claimed.
The process involves combing the hair with an ultra violet ray comb for 5 to 10 minutes. The rays are said to open the scales of the hair cuticle. After this treatment and while the scales are thus opened the conventional hair-waving fluids are applied and the hair is waved. Because the scales are opened the waving fluids readily penetrate the hair follicles, it is said, making for a better wave.

Smart Like a Fox

Foxes show remarkable cunning in avoiding traps and, where they are hunted by hounds, for the methods they adopt in breaking the line of scent, even by leaping on the backs of sheep. The means they adopt to get rid of fleas is another example. Taking in his mouth a tuft of wool or piece of wood, a fox will sink himself, tail first into a pond.

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How to cut the cost of Heating Your Home
BY **John Barclay**
AMERICA'S HOME HEATING EXPERT

"Poor Heat" Complaints With Hot Air Furnace Equipment

WITH hot air heat, cold rooms are generally the result of improper air circulation within the room. The heated air should flow into the rooms through registers and the chilled air from the rooms should flow back to the furnace for reheating through separate registers and ducts. If this air circuit is broken, or if the cross section area of the pipes carrying cold air from the room is not equal to the cross section area of the warm air pipes, the result will probably be cold rooms, or drafts on the floors.

Hot air registers are always placed in inside walls. This is important. Cold air returns are located on outside walls, usually underneath bay windows or near outside doors. These are flush with the floor and permit the cold air to flow through attached ducts back to the furnace for reheating. In the case of a pipeless furnace, there is only one hot air register, this is centrally located in the first floor in such a manner as to evenly distribute the heated air throughout all the rooms of the house.
Warm air furnaces should be located as near the center of the basement as possible and favoring the coldest side of the house. This is done to equalize warm air distribution upstairs. To aid in this, where warm air ducts are installed, turn dampers are placed in the ducts and these can be manually operated so that just the right amount of heat is furnished to all the rooms.
Cold air return ducts should connect into the base of the furnace shell below grate level, otherwise they may act as warm air leaders, hindering the air circulation.

In the living quarters, furniture or rugs should never be placed in such a position so that they totally or partly cover the openings of warm or cold air registers, as this will restrict circulation of air and cause a bottled up condition within the room and unsatisfactory heat.

For extra comfort, make sure the water pan on the furnace always contains water. This water slowly evaporates and is used for humidification. If this pan goes dry or accumulates dirt, subsequent heating is liable to throw odors into the rooms and cause a generally unpleasant dry condition. Check this water pan occasionally. You will find it adds greatly to comfort and economy of operation.
In the case of fumes or gas odors upstairs, immediately look for leaks in the furnace. Often these can be corrected with the application of furnace cement but if they prove of a more serious nature call your fuel dealer or heating contractor. He can tell you if it is necessary to have the furnace thoroughly cleaned and resealed. All furnaces should be gone over periodically to check on gas leaks.
Warm air heat is a very satisfactory method of heating if the equipment is properly installed. Warm air furnaces are now being extensively used in new homes and with the addition of blowers, humidifiers and filters, make economical winter air conditioning units. (21)

The SNAPSHOT GUILD
DOCUMENTARY PHOTOGRAPHY



Want an interesting picture project? Try making a pictorial record of your home town.

AT FREQUENT intervals, in discussions of picture-making, the term "Documentary Photography" turns up. And to many people it seems like the "bad penny" which keeps coming back.
With such a record you're probably even wondering why the subject is even mentioned here. Well, the reason is that today I'd like to suggest that you try your hand at documentary photography and become a photo historian. For instance, suppose you had a picture record of every important event in your home town during the last five years, or every important local character. Right now, at your fingertips, you'd have a veritable treasury of local history.

There's no reason why you can't assemble such an album if you start picturing the local scene at once. Thirty years from now people will be wondering how we lived. They'll want to know what sort of clothes we wore, what kind of houses we lived in, what Main Street looked like, what kind of cars we drove, who the important people were and what they were like. Of course, we could sit down and write a book giving them all the details, but there never has been—and there never will be—any book which can describe anything more clearly than you can, in a fraction of a second, by means of your camera.
In fact, there's so much that honestly deserves a place in your album I'd suggest you specialize in two or three principal subjects. Your section of town, for one, should have a special division all to itself.
Another section I'd devote just to people—the way they dress, their work, and the games they play. That's a broad field because things change so fast—fashions in clothes, for instance.
Maybe that isn't your idea of documentary photography. Perhaps you think it's necessary to photograph big, dramatic subjects. Well, you're wrong! It's the little personal items—seasoned with human interest—that makes interesting history. And that is the type of subject that is often overlooked.
John van Guilder
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How to cut the cost of Heating Your Home
BY **John Barclay**
AMERICA'S HOME HEATING EXPERT

Closing Heating Plant at End of Season - How To Protect From Rust

I BELIEVE you'll welcome a suggestion as to the best way of shutting down your furnace at the end of the heating season. To begin with, be sure to leave a layer of ashes on the grate. Then close all the furnace doors and dampers. These simple precautions will prevent the damp air of the cellar from circulating through the heating plant and causing rust to form on the heating surfaces and smoke pipe. For plants of the steam or hot water type, it is advisable to drain off the water in the boiler. This will rid the boiler of sediment that may have accumulated during the winter. This done, don't forget to refill the boiler to the top, this will protect the inside of the sections from rusting.

As I say, these precautions are easy to follow and take but little time. If you follow these suggestions at the close of the heating season when you shut down the heating plant you'll prolong the life of your furnace and guard against repair bills.

Radioactive Chemical

May Locate Cancer Spot
One of the more plentiful radioactive chemicals may help medical science to locate hidden cancers, three University of California experimenters reported.
They found that at least three types of cancer absorb phosphorus rapidly from the body's food supply and retain it longer than normal tissues.
Radioactive phosphorus, a common product of atom smashing, acts like ordinary phosphorus in the digestive system but it gives off rays and therefore can be traced in the tissues.
The three kinds of cancer—breast carcinoma, lymphoma and lymphosarcoma, were transplanted into otherwise healthy mice.
These abnormal growths, the researchers found, took up phosphorus about as rapidly as did the normal liver, kidneys and small intestine. Previously these three organs were rated as being greater absorbers of the mineral than any other normal tissues.
But there was a significant difference, the experimenters reported, in that the liver, kidneys and small intestine rapidly passed on their phosphorus to other parts of the body, while the cancers held onto it for a relatively long time.
This means, they said, that if radio phosphorus administered to a subject happened to concentrate abnormally in a certain tissue and remain there longer than usual, it might indicate a cancer in that part of the body.

Find Dinosaur Tracks of Triassic Age Monster

A footprint in sandstone of a prehistoric monster of the Triassic age, 150,000,000 years ago, is one of about 15 specimens of dinosaur tracks found in collecting expeditions by Alf and Webb school students of Claremont, Calif.
Although this two-ton carnivorous beast has left only footprints as the sole record of its existence and hence has not been named, it is believed by scientists that it and others of the reptilian age were destroyed by small animals, deadly saboteurs of their day, which invaded nests and ate the dinosaur eggs. That, coupled with the tremendous food requirements of the giant reptiles, some of which consumed as much as 20 tons a day, spelled extinction for the monsters.
Alf's museum of paleontology contains hundreds of specimens collected in the field on summer and other vacation trips, dating from two years ago, throughout the western states. He now is classifying specimens found in his latest expedition to Utah, Wyoming, Idaho, South Dakota and Montana.
Besides the 15 well-preserved dinosaur tracks in sandstone slabs, Alf and his students also have found an additional 45 specimens of footprints of other animals, dating back as far as 200,000,000 years ago.

Typhoid 'Shots' Advised

Dr. Robert H. Riley, director of the Maryland state department of health, has issued a message warning persons arranging for vacations or for hiking, camping or week-end trips away from home, to have themselves vaccinated against typhoid.
Dr. Riley says: "If you have not been vaccinated within the last three to five years, go to your doctor or nearest health officer for the three shots that will protect you against typhoid."
"The three shots are given at intervals of a week apart. As it takes some time for the protection to be established, do not wait until just before you start on your vacation. Have it done now."
This advice, Dr. Riley says, applies especially to Boy and Girl Scouts, Campfire Girls, hiking clubs, campers and trailer tourists, but it is also directed at all others who are not protected against typhoid and who are looking forward to holiday experiences out-of-doors.

Old Sol Prefers Blondes

Prim haired outfits for blondes and redheads and revealing suits for brunettes are recommended by Dr. Charles F. Pabst, skin specialist at Greenpoint hospital in Brooklyn, N. Y., in a series of ten commandments.
For the blonde or redhead termed a "heliophile," Dr. Pabst urged the slacks and sweater, or pajamas, with large hats and huge parasols. He warned against sleeping, reading, drinking liquor or playing cards in the sun.
The brunette, on the other hand, he termed a "heliophile," has it all her way. She may wear a brief, backless bathing suit of fishnet variety, and Dr. Pabst said the meshes could be as large as the law permits.

Squirrel's Appetite

It takes slightly more than 100 pounds of food to support a squirrel for a year—but, contrary to general opinion, little the gray squirrel attempts to eat is lost. . . for he has no wasteful habits and is both dainty and thrifty. . . he has a habit of burying all food he cannot consume at the moment. . . sometimes he digs it up later, but more often he forgets about it. . . and millions of forest trees have sprung from nuts squirrels have planted in the ground in this manner.

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