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First of Volunteer Nurses From U.S. Reach England

LONDON—The first group of United States nurses, who volunteered for service at the Red Cross-Harvard University Hospital, were in England today. The nurses, who made the voyage here by boat, arrived coincidentally with an appeal to Great Britain's registered nurses to enlist in military nursing services. "Many more nurses will be needed if hostilities are protracted," an official said. Appeal Expected. It was reported in reliable United States circles here that this move may lead to an appeal by England for United States nurses along lines similar to the government's request for young doctors and for technicians to operate radio locators. Fifteen nurses were said to be in the first contingent to arrive here and it was expected they would be followed shortly by about 35 more women from the United States. All will work in a hospital devoted to the treatment and study of communicable diseases caused by the war, air raids,

U. S. Scientists Produce Rare Oxygen

BERKELEY—A few thimbleful of one of the rarest substances in the world, water containing large numbers of heavy "brothers" of the oxygen atom, has been produced after eight years of work by University of California chemists. The rare heavy oxygen atom is called an oxygen isotope. That is, it is just like ordinary oxygen, except that it weighs just a little more. About one in 800 of the oxygen atoms in ordinary water is one of these heavy "brothers." The University of California chemists have produced water in which one of every 25 oxygen atoms is of the heavy type. The heavy water is produced by making ordinary water jump through 70-foot-high pipes packed with shoe-eyelets and twisted copper strips encased in corset lacings. The pipes vary in diameter from 12 inches to one-quarter of an inch. When ordinary water is forced through the eyelets at boiling temperatures the lighter oxygen atoms reach the top of the pipes more easily than the heavier atoms, some of which are left behind. These lagards are a constituent of heavy oxygen water.

When sufficient quantities have accumulated, the scientists will use heavy oxygen for a vast number of experiments, such as tracer studies in the metabolism of plants and animals, and in chemical reactions. Since oxygen is to be found in one form or another in almost everything in the world, such experiments would prove of immense value, it is said. Separation of the heavy oxygen has been carried out under the direction of Dr. Merle Randall, professor of chemistry, assisted by a grant from the National Research Council, and by the Works Progress Administration. The University of California is one of the two places in the world where heavy oxygen is being made, the other being at Columbia University.

MACABRE MASQUERADE. Camouflage may save the lives of soldiers in the front lines, but a camouflaged pedestrian has only himself to blame if he falls victim to a sniping motorist. Wear something white or light at night!

According to the National Bureau of Economic Research, although population increased only two and a half times, there was an eight-fold increase in the output of commodities between 1870 and 1939.

Remains of saltpeter vats and pipes used in preparing gunpowder for American defense in the War of 1812 are still to be seen at Mammoth Cave National Park, Ky.

The L. G. Finlaysons recently entertained Mrs. Tom Neely of Ventura.

Start Saving Today! You should help as well as the 2,000,000 of our young men in the armed forces. Buy Defense Savings Stamps. Don't wait another day to help in your country's defense!

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Spaniel Guards Sow and Litter



"Golden Acres Monarch Lady," champion Idaho sow, and her litter are guarded by faithful "Peggy," a spaniel. They're all owned by Bruce Howe, youthful hog enthusiast who's showing them to Harold F. Dupes, left, general manager of Grand National Livestock Exposition at San Francisco, and James L. Halley, a show official.

CHRYSANTHEMUM CULTURE FOR 1942 BEGINS NOW

By HARRY H. STONE, Instructor Vocational Agriculture, Torrance High School. The chrysanthemum is the flower of fall. The word itself means "gold flower," suggesting the wealth of yellow and bronzes, autumn colors, which predominate. But there are colors and shapes and sizes of flower, there are different habits of growth to suit almost any occasion. The normal season of bloom, September thru December, is extended now. Heavy shading every afternoon as plants near maturity causes flowers to open two or three weeks early. It might be questioned whether this is the time to give cultural directions, but this is certainly the season to admire them and choose those that we want in our gardens next year. The earlier blooms are already past. The unseasonable hot days last week wilted many mid-season flowers, but there is enough color and form left to guide the choice, and later mums are still to come.

Most of us have friends with flowers that appeal to us. Now is the time to make memoranda in a note book of who has what we will want in March. To be sure of getting what we think we are, it is well to mark the plants while in bloom. Wooden labels and a weatherproof pen will cost little and satisfy much. Plants may be given numbers referring to descriptions of color, size, type, time of bloom and location, all entered in the note-book. Flower lovers are reluctant to throw away good plants. They are glad to give away the increase, if they only knew who could use it. This is where a garden club comes in handy. Chrysanthemum clumps may be divided to single shoots in February or March, or tip cuttings may be made then. For ordinary garden culture, the tops should be cut back half in May, and again in June or July, to prevent the tall varieties from falling over with weight of blossoms later on. This cutting back will force the plants to branch and provide wealth of medium sized and button blossoms. Exhibition size flowers are grown from a certain type of mum. They must have side shoots pinched out regularly, and the stems staked and tied. For waterfall or cascade displays a special type of mum is used. They are set in 4-inch pots in February and shifted to 8-inch pots in May. Then feeding begins, with a spoonful of complete fertilizer every ten days until September. Two or three shoots are saved and tied to stakes slanting toward the north in part shade so that all plants receive sunlight. All side shoots are pinched back frequently to three or four leaves. When buds begin to form, fertilizing stops, stakes are removed, and the stems hang down over the side. The pot is then

Experiments With Pigeons May Help Aviator, Acrobat

LOS ANGELES—Experiments with pigeons, conducted by Dr. Franklin Fearing of the University of California and Dr. G. W. Yacovynski and Ward Halstead of Northwestern University, may explain why aviators, acrobats, dancers and others who are employed in work involving rapid movements of the body suffer from dizziness and nausea.

The work is described in a paper called Relationships Between the Experimental Reduction of Vestibular Nystagmus and Equilibrium, published in the Journal of Psychology. Research was conducted with two groups of pigeons, twenty-three and twenty-four in each group. The birds were blindfolded and wrapped in cotton cloth to prevent injury. One group was placed on a revolving perch, which was speeded up gradually from 10 to 300 revolutions per minute. The duration of time each bird could maintain his balance was clocked. Another group was rotated on a flat turntable 58 times before being placed on the revolving perch. This was done to reduce nystagmus, or loss of control of eyeball or head muscles caused by rotation of the body. It was found that better balance was maintained by the second group of pigeons after repeated turntable rotations had reduced the original nystagmus or dizziness. This may have been caused by either of two factors, say the experimenters; changes in the inner ear after repeated stimulations, or reduction of a feeling of nausea in the stomach.

Further experiments on this subject with pigeons and other animals may lead to practical application in reducing dizziness and nausea in human beings, according to Dr. Fearing.

NAVY PIGEONS VALUABLE

If a Navy balloon lands in wild country the pigeons it carries are the only method of obtaining help. The potato, tomato, tobacco and corn were unknown to civilized people until the discovery of America.

The ultimate objective of every church-and-state alliance has been to blot out heresy by coercive means.

Building costs have advanced 10 per cent during the past year according to the department of commerce.

Civilian air raid deaths for all England in the first eight months of 1941 total 19,078.

Approximately 125,000,000 separate shipments are handled annually by the railroads.

Drivers who stare at the scenery sooner or later find themselves in for a long spell of staring at the ceiling.

Airplanes now provide service to remote points in Alaska at less than it costs to feed a dog team for the trip.

Puerto Rico, the United States' largest West Indies island, has a population of 1,800,000.

San Francisco handles 80 per cent of United States wine exports.

About seven billion dollars' worth of new life insurance is written in the United States annually.

Use of italics in printing was introduced by the Aldine Press in Venice in the 15th century.

Sometimes we are more convincing when we don't try to prove what we say.

turned so that the foliage faces south, kept moist, and the display awaited. After blossoming, all potted mums should be labeled and set out in the ground.

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Water Dept. Moves To C. C. Building

Hardest hit of all municipal buildings was the water department headquarters on Craven ave., across from the city hall. When inspection showed this structure was in a hazardous condition due to structural damage, Superintendent William H. Stanger and his staff promptly moved supplies and equipment into the Chamber of Commerce building on El Prado. Another city building that "took it" was the central fire station. In addition to a virtually wrecked siren tower, a number of serious cracks appeared in the walls, causing Fire Chief J. E. McMaster to order removal of all equipment. This building, which was the old city hall, was damaged in the 1933 quake and was repaired without extensive reconstruction. The city hall, auditorium, Chamber of Commerce, police department and Wateria fire station rode the quake without a sign of damage except for a few cracks and the shaking loose of a fluorescent light in City Clerk A. H. Bartlett's office.

SUDDEN WAR-CONSCIOUSNESS GRIPS PHILIPPINE ISLANDS

MANILA—(U.P.)—With the Commonwealth government redoubling its efforts to prepare the Philippines for any possible emergency, a sudden war-consciousness appears to be rapidly developing among all sections of the population. Not many months ago, the Filipino in the street went about his daily routine with scarcely a thought of war. Today, however, United States and Philippine involvement in the war is a foregone conclusion. The constant arrival of American soldiers and warplanes and the evacuation of a army families from the Philippines have served to arouse Filipino public opinion to the belief war must be imminent. Canned Goods Stored. Merchants report that many families have bought large quantities of canned food "just in case." Most of the populace however, has done nothing. The proverbial bahana na (let us cross the bridge when we come to it) attitude describes most

But the Commonwealth government has become suddenly aware of the tense international situation. The National Assembly is expected to approve a bill appropriating \$5,000,000 for civilian defense. The bill was partial fulfillment of Commonwealth President Manuel Quezon's recommendations in a special message, which warned that "the trend of events seems to point strongly to the possibility of America's entry into the present war." The message pointed out that in case of United States involvement, "it goes without saying that the Philippines also would be involved directly." The Navajo Indians of Arizona and New Mexico, famed as silversmiths, learned the art from Mexicans they captured about the middle of the 19th century. There are more than 400 trans-ports in U. S. commercial airlines.

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