

Troop Carrying Sub—The USS Perch, one of the navy's new troop-carrying submarines, enters Women's bay at the naval operating base at Kodiak, Alaska. This is the first photo released by the navy of the new type undersea craft. (Acme Telephoto)

Four Corners School Pupils Present Assembly Program

Four Corners, Feb. 14—Before the general assembly of the Lincoln school (Four Corners), Mrs. LaVaun White and her third grade students presented the second in a series of programs on Monday at 1:15 p.m.

The salute to the flag was led by Marvin Corbett. Miss Shirley Payne lead the school in singing "The Star Spangled Banner," "Donkey Song," "Little Tom Tinker" and "America."

The second grade sang "Mother's Valentine" and "Abraham Lincoln." Announcer was Tommy Prock. A piano solo was played by Sharon Forest; accordion solos, Peter Lossner.

A folk dance, "Clap and Bow," was presented by Patty Meyer, Nancy Gray, Marilyn Corbett, Sherry Johnson, Jean Rhoads, Connie Chambers, Bobby Farmer, Perry Evans, Larry Elzel, Gary Brunk, Jerry Stefa, Eugene Davis.

The closing number was a skit, "The Valentine Party," with Judy Pengra taking the part of the live valentine. Supporting this role were Marjorie Wing, Leta Thayer, Betty Hodges, Mary Hanson, Carol Powell, Karen Roskop, Kathy Snook, Gary Brunk, Lewis Hatfield, Howard Ediger, Marvin Corbett, Pat Theisen, Allen Snook.

Auxiliary Entertained

The Firemen's auxiliary held its February meeting in the home of Mrs. Waldo Miller with Mrs. Lawrence Lee as co-hostess. Mrs. John Fox, assistant chief, conducted the meeting. Plans were discussed for future activities, followed by a social hour. There were 19 members present. Hostesses for the next meeting will be Mrs. Ray Russell and Mrs. John Fox.

Girl Scouts Busy

Girl Scouts, troop 42, and Brownie troop 107 have a busy week ahead. They will conduct their annual cookie sale from February 13 to 23. On Friday at 7:30 p.m. at the Community hall they will hold their annual investiture ceremony, when the new scouts will receive their fly up wings and pins and the Brownies will receive their caps and pins. The

Los Alamos Atomic Center Deals in Life as Well as Death

Los Alamos, N. M., Feb. 14 (AP)—This atomic center deals in life as well as death.

While the nation's top nuclear physicists work in the Los Alamos laboratories to perfect weapons capable of dealing death to hundreds of thousands, a comparatively small group of 34 bio-medical scientists do research that might defeat many of the human race's most destructive ailments.

At the same time, the 34 work to protect the weapons scientists against the vagaries of the radioactive materials with which they deal every day.

Directing the Los Alamos bio-medical research group is Dr. Wright Langham, a slight, energetic man whose scientific ability commands the respect of other scientists on "the hill."

Langham has watched the bio-medical lab grow from an 18 by 20 foot laboratory and three persons to its present staff and 23 laboratories.

Only three of the 23 laboratories are inside the security fence, but outsiders are not encouraged to visit. Some of the materials used in the bio-medical research could be death-dealing to the careless.

The laboratories are a strange world of Geiger counters, special test tubes made by some of the nation's best glass blowers and intricate photographic equipment that enables radioactivity to take its own picture on raw film.

There are rabbits with panels in their ears, permitting scientists to study blood flow. There is a slicer that cuts material under observation to 1/10th micron—and a micron is 39.37 millionths of an inch.

An ultra-centrifuge, a bulky box-like affair, spins 70,000 revolutions a minute to separate molecules of a substance by sheer centrifugal weight. This compares with a cruising speed of 1,900 r.p.m.'s for the four-engine Constellation plane.

The material to be broken down is inserted in a drum and all air withdrawn from the chamber before the spinning begins. Scientists say the drum spins so rapidly that even a small amount of air left in the chamber would produce enough friction to burn the solid steel drum to a shapeless mass.

There are electronic beams that pass through material being tested and chart, on film, that material's component parts in comparative peaks.

There is an infra-red spectrophotometer that produces a molecular pattern of an unknown substance. Once scientists get that pattern, they can farm it

around to the various laboratories for comparison against charts of known molecular patterns.

Radio-active carbon 14 is used to "tag" chemical compounds whose activity in living tissue is being studied. The radioactivity of the tagged compound makes it easier to trace the compound's progress through the body.

Los Alamos scientists say tagging of compounds is proving valuable in the study of brain tumors, goiter, heart diseases, pellagra and cancer. Such tracing methods are enabling science to move ever nearer its goal of perfecting drugs designed for specific tasks of healing.

Carbon 14 is not the only tagging substance used here. Others include isotopes of iodine, sulphur, hydrogen and nitrogen.

Langham says about 80 per cent of the bio-medical staff's time is devoted to research concerned primarily with the health, medical and biological problems of interest to the weapons scientists.

The other 40 per cent is spent in scientific research of a more fundamental nature, including biological effects of ionizing radiation and the use of radioactive isotopes in biology and medicine.

The most concrete production to come out of the highly theoretical work of the medical research group has been the shipment of carbon 14 labelled compounds to Oak Ridge for distribution to research centers not affiliated with the atomic energy commission.

Available for public distribution through the AEC are tagged nicotinic acid, anthranilic acid, nicotinamide, nembutal, and urea.

Nicotinic acid and nicotinamide are used for pellagra, a disease characterized by gastric and nervous disorders.

Urea will aid in studies of the body's utilization of protein. Radioactive nembutal aids in the study of sleep producing drugs. A tagged nitrogen mustard compound will furnish a more complete study of lymphatic cancer.

Los Alamos itself takes its bio-medical research pretty much for granted, just as it does its weapons research. But to the outside observer,



Outstanding—The California Junior Chamber of Commerce selected Dr. Philip M. West, (above), 34, a cancer research specialist, as the state's outstanding young man of 1949. Dr. West is an associate clinical professor of biophysics at UCLA. (AP Wirephoto)

Stayton Horse Finds No Place Like Home

Stayton — Humans are not alone in sensing a nostalgic feeling for familiar places with pleasant memories, for there is the case of the horse which George Fery sold two or three years ago to his neighbor, Leo Odenthal, whose farm is a mile away on the West Stayton-Marion road.

It was with some surprise that Fery found the horse standing in the barn one day recently, standing in much the same manner as one enjoying a visit to old familiar haunts.

Although given plenty to eat and well cared for, the horse had broken out and traveled down the road to his old barn, where he had nosed the sliding door open.

the comparison between numerical personnel and the amount of money being spent on the two widely variant projects points up current world conditions.

When there comes the time when so much is no longer needed in weapons research and production, the possibilities of atomic health research, as represented by the Los Alamos bio-medical project, seem almost unlimited.

American Scholars to Microfilm Rare Manuscripts on Mt. Sinai

Alexandria, Egypt, Feb. 14 (AP)—The Mount Sinai expedition, sponsored by the American Foundation for the Study of Man, will microfilm 500,000 pages of ancient manuscripts at St. Catherine's monastery.

The monastery lies on Mount Sinai, midway between the two gulfs of the Red sea. The manuscripts are in Greek, Latin, Syrian, Abyssian, Arabic and Georgian.

William Terry, director of the expedition, said the microfilming of the documents, which already has started, will make them available for study by historians and Bible scholars throughout the world for several generations to come.

The manuscripts date back to the 2nd and 3rd centuries A.D. and were brought by monks, who then lived in caves, to St. Catherine's Monastery in the 5th century.

Their microfilming will be undertaken by five experts, headed by a photographic technician, Wallace Wade, of the Library of Congress. According to Terry, it will take about four months of intensive work to do the job. The photographers will be taking between 10,000 and 15,000 shots daily.

Among the treasures at St. Catherine's are some 2,000 "firmans" or "letters" from the sultans and caliphs of Egypt regarding the privileges and prerogatives of the monastery.

As the archives of medieval Egypt were destroyed by the Turkish invasion in the 18th century, these "firmans" will throw light on an otherwise unilluminated period of Islamic history.

One of the manuscripts at the monastery is the "Codex Sinaiticus," which was removed from the monastery by a German scholar named Tischendorf, who gave it to the Czar of Russia.

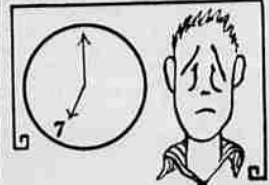
This precious manuscript later was sold to the British museum for £10,000 gold, during the Russian revolution, according to Terry.

The American Foundation for the Study of Man, Terry said, is doing this work on behalf of the Library of Congress in Washington and in cooperation with the American Schools of Oriental Research.

The editor-in-chief of the

Band Plans Benefit

Scio—The elementary school is planning a "white elephant sale," entertainment, and refreshments, to be for the benefit of the grades, and to help pay for the rhythm band outfits which the women are making.



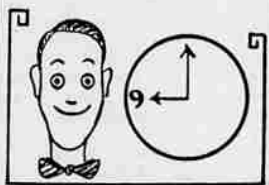
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