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The
Utah State
Alumni Quarterly

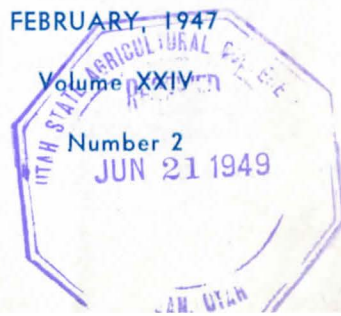
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Vol. 24
No. 2

FEBRUARY, 1947

Volume XXIV

Number 2

JUN 21 1949



OFFICIAL BALLOT

NOMINEES FOR ALUMNI COUNCIL

(Vote for one) 1894-1916

- William Warren Knudsen '13
- Henry Plant '11
- Heber Bennion Jr. '13

(Vote for one) 1917-1924

- James W. Thornton '17
- Vern B. Muir '22
- R. Stanton Belnap '24

(Vote for one) 1925-1930

- Lucile Owen Petty '26
- Virgil Norton '26
- Ariel Merrill '26

(Vote for one) 1931-1936

- Ray Lillywhite '35
- Frank Fannesbeck '33
- Elmer Ward '35

(Vote for one) 1937-1946

- Erwin "Scotty" Clement '37
- Guy Cardon '40
- Raymond "Butch" Kimball '41

MARK AND MAIL TODAY

1947-48 ALUMNI COUNCIL NOMINEES

Enclosed with this issue of the Quarterly is your official ballot bearing the names of fifteen graduates for positions on the Alumni Council of the Alumni Association as selected and authorized by the nominating committee of the Association. To increase the interest in all classes and geographic areas, candidates were chosen in an attempt to represent both groups. Vote for one in each year group on your ballot, casting five votes altogether.

Paid members may vote. It is urged that you mark and mail your ballots today. Your cooperation in this matter will be greatly appreciated. Ballots must be returned not later than April 1, 1947.

William Warren Knudsen '13 since 1941 has owned and operated the Knudsen Floral & Gift Shop on University Avenue in Provo, Utah. Prior to that he was a fruit grower and diversified farmer for 25 years in Brigham City. He graduated from Utah State with a degree in agriculture. That spring he was chosen as an assistant in the horticultural department where he spent one year. He then spent one year at Cornell University doing graduate work. While a resident of Brigham City, he was a member of the city council and district agriculture inspector for two years. He is married to LeOra Hansen of Providence, and they are the parents of three sons and two daughters.

Henry T. Plant '11 for 30 years has owned and managed the Plant Auto Company in Richmond, Utah, which handles automobile supplies, repairs, welding, and machine work. After graduation from Utah State he served as an instructor in commerce and coach at North Cache high school for four years. He then entered the automotive business. Mr. Plant has been active in civic affairs in Richmond for many years, having served three terms as mayor of Richmond, two terms as city councilman. When a student at Utah State he was a member of Phi Kappa Iota fraternity and was on the track team for four years.

Heber Bennion Jr. '13 holds the position as State Tax Commissioner of Utah and makes his home in Salt Lake City. Upon graduation from Utah State he became principal of Lehi high school and held the position for five years. He then went into the livestock business in Daggett county and he still operates his ranch and stock business there. He represented Daggett county in five regular state legislative sessions and numerous special sessions and was speaker of the House of Representatives in 1939. While a Utah State student, Mr. Bennion was president of his senior class, a member of the Ag club, and Pi Zetta Pi.

James W. Thornton '17 is principal of the Farrer Junior high school in Provo, Utah. While a student at Utah State he was a member of the student council, the Ag club, Cosmopolitan club, associate editor of the Buzzer, and editor of Student Life. Upon graduation he took his master's degree at Northwestern University in Evanston, Ill. He has been president of the Utah Education Association, state senator from Utah county, district governor of Lions for the state of Utah, and superintendent of the Manavu ward Sunday school for five years. He is also a member of the Utah State Teachers' Retirement Board, chairman of the Provo City Adjustment Commission, and chairman of the Utah county chapter of the Infantile Paralysis Foundation.

Vern B. Muir '22 is serving a short term mission for the LDS church in northern California but makes his home in Logan, Utah. His eldest daughter, Marva J. is now attending Utah State, and Mr. Muir expects the other five to follow in her footsteps. He has operated stores and ranches in Utah, Idaho, Nevada, Wyoming, and Nebraska. He was Logan city commissioner for eight years and his last official act was to install a booster pump at the USAC so that there might be ample fire protection. He is a past president of the Utah Municipal League and president of the Cache County Retail Grocers'.

R. Stanton Belnap '25 is manager of the General Electric Supply Corporation in Boise, Idaho. He started as salesman with the company in 1926 and has been continuously employed by this company. He is also vice

president and director of the Boise Chamber of Commerce and a member of the Rotary Club. He was chairman of the Ada county War Fund Drive in 1945. While at Utah State, Mr. Belnap was active in basketball and baseball and a member of the Alumni "A" Men's Club. He belonged to Sigma Chi fraternity.

Lucile Owen Petty '26 is the mother of eight children and was recently elected by the fifth municipal school district to act on the board of the Ogden city schools, being the first woman elected to the position. Mrs. Petty majored in physical education at Utah State and taught here several years after graduation. She was then head of the physical education department at Weber college in Ogden and is a former dean of women at Weber. She did graduate work at the University of Wisconsin's department of school administration while teaching at Weber. In her leisure and spare moments, Mrs. Petty plays the cello in the Ogden string trio, and is a member of the Sempre Music club. She is married to Dr. Russell B. Petty, prominent dentist of Ogden. Mrs. Petty's eldest daughter, Ruth, is a freshman home economics major at Utah State. While a student herself, Mrs. Petty was president of her class for her freshman and senior years and was active in debate.

E. Virgil Norton '26 owns and operates his own fire insurance company, The Norton Company, in Salt Lake City which does business in Utah and Idaho. While a student at Utah State he majored in English and was active in many campus affairs. He was a member of Sigma Chi, Pi Delta Epsilon, Scabbard and Blade, Alpha Sigma Nu, and the intercollegiate Knights. He was active in swimming, track and football and is a past president of the Alumni "A" Men's club. He was also editor of the Buzzer and Scribble and a member of the ROTC. He is married and lives in Salt Lake City with his family.

Ariel C. Merrill '26 is vice president and manager of both the Cloverleaf Dairy and the Colville Ice Cream Company in Salt Lake City. He graduated from Utah State with a major in dairying. After receiving his master's degree from Michigan State College, he managed 20 Swift Cheese Company plants for two years and then joined the USAC faculty. After leaving the faculty he became chief sanitarian for the Salt Lake City Board of Health. He then returned to private industry and his present position. Mr. Merrill is a past president of the Salt Lake City alumni chapter.

Ray L. Lillywhite '25 has been executive secretary of Utah State Teachers' Retirement System since its organization in 1937. He is also on the executive committee of the National Council on Teacher Retirement. He is active in scouting, Intermountain Radio Council, Junior Chamber of Commerce, and the American Legion. He obtained leave of absence during the war years and served at Lt. in the U. S. naval reserve as radar fighter director with Adm. Halsey and the third fleet. While a student at Utah State he was student body president and a member of Delta Nu, Sigma Nu, and Alpha Sigma Nu. He was also active in debating and dramatics. After graduation he did post graduate work at the University of Chicago and American University, Washington, D.C., with a certificate in Social Security Administration from the latter.

Frank O. Fonesbeck '33 recently completed work with the E. I. DuPont Company in the development of

(Continued on Page 19)

UTAH STATE ALUMNI QUARTERLY

Published Quarterly by the Utah State Agricultural College Alumni Association. Entered as second-class matter at the post office in Logan, Utah, under the act of March 3, 1897.

Vol. XXIV February, 1947 Number 2.
Mrs. Bernice Gray, Editor—

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GRADUATES AND EX-AGGIES

Life memberships at \$25.00 or annual membership of \$2.00 may now be procured by any interested person who has ever attended the USAC. Joint annual dues for husband and wife are also available at \$2.50 per year and joint life memberships at \$35.00. Husbands or wives of graduates or ex-Aggies may also affiliate on an annual or life basis.

It is now possible for all former students who have attended the Utah State Agricultural College for one quarter or more to become full fledged members of the Alumni Association upon payment of the dues as outlined above.

Join the Alumni Association Now!

Name

Address

Class Year Amount Enclosed \$

ALUMNI OFFICERS, 1946-47

D. A. Skeen, '09.....President
A. Russell Croft, '20....Past President

EXECUTIVE COMMITTEE

Ruby Stringham Garrett '28
W. W. Gardner '21
Allan M. West '32
Leonard W. McDonald '39

ALUMNI COUNCIL

J. Morris Christensen '21
Seth T. Shaw '31
Cantril Neilsen '28
Howard Calder '37
Frank Stevens '37
Lloyd N. Johnson '35
W. Adrian Wright '32
Mary Leone Haight '44
Ray D. Garner '24
Ralph S. Blackham '30
C. J. Sorenson '14

President D. A. Skeen Pens Message To Alumni On Community Development

The future growth of Utah lies in the development of the natural resources. The greatest of these resources is the wholesome community life that our pioneer ancestors started and which over the years has been disturbed by factors tending to draw the young people to distant centers. The philosophy of the pioneers was to make each community sufficient in itself, protected from invasion from without, and able from its own resources developed by the industry of its citizens, to supply all needs from within the community. Education and scientific research has proved the truth of this philosophy and justified the faith of our forefathers.

The people are challenged now to carry on and avail themselves of the opportunities that exist and which can be developed if we use the unlimited fields of service in community development which the college with multiple activities now has within the reach of the people, who have but to ask for it.

The college is not really located at Logan. Cache Valley has no priority rights to the college service. This service embraces every corner and community in the state and every person can enjoy it in some day by the mere asking. We as Alumni should know this best and are missionaries to our communities to preach college service. Shouldn't we go back to school often to see what the College is doing and can do in community building?

During this year the Centennial Commission is carrying out to the people of Utah many good cultural and aesthetic things such as the State Symphony and art exhibits which have been held before in only one center. Why shouldn't our communities disclose their potentialities and invite the educational, industrial, and cultural resources to develop them.

Each community cannot have its own college. We are going beyond many states in our junior college program. It is enough that we develop our institutions as they are organized, and take advantage of the service they offer to all the people of the state wherever located and extend these services as new opportunities are found.

The college must be the best in engineering to serve the opportunities to be presented by the Central Utah Water Development project and the new and growing industrial life
(Continued on Page 4)

The Cover

"Tracks of a Snowmobile" taken by Professor H. Reuben Reynolds. For a complete story of the snow surveys made over the western part of the United States see page 6.

President Skeen Pens Message

(Continued From Page 3)

of Utah. It must be the best in "wild land" management to develop this resource, and so in all phases of its work and community life.

This postwar period presents a new outlook for the college, with attendance multiplied many times, new interest is aroused, new needs in buildings, personnel, and facilities are needed and will be provided if the friends of the college fully appreciate what the college service means to our future as a state. Your Alumni Association has moved ahead in preparation to help the Alumni to better know and appreciate the College.

The Board of Trustees have by formal action created the position of "College Development and Alumni Relations" giving the Executive Secretary of the Alumni Association full faculty standing as the head of a department. The Alumni Association is set up to serve the members and the college and to help carry the college service out to every person and every community in the state. The Alumni Association officers are here to serve its members. Each one can help keep the organization strong and effective. Won't you all take stock of your community needs and report them to the college, or invite our Alumni Secretary to bring the college service to your community?

The U.S.A.C never stood in a better position to grow and develop in service to the state than as it is now.

Aggies Here And There—

Coulson Wright '21, is an Indian Agent on the Flathead Reservation in Montana.

Prof. Israel Heaton of the physical education department will direct dances for the Centennial pageant July 3, 4, and 5.

Ellen Agren '14, of Davis county and Bessie Hansen '29 of Box Elder county attended the National Association of Home Demonstration Agents in December in Chicago, Ill.



Jeanine and Bert Thurber, children of Dan P. Thurber '25.

In Memory of Those Aggies



Who have courageously given their lives in the service of our country. May their memories be an inspiration for the building and maintenance of a world of Enduring Peace, assuring Liberties and Privileges of Freedom to all the peoples of the world.

Their names have been inscribed upon the permanent Honor Roll of the U. S. A. C. Alumni Association. Their Alma Mater will ever hold them in Proud Remembrance.

Lt. Stanley H. Castleton was killed in an airplane crash over the Philippines October 19, 1946. The body was shipped to his home in Garland, Utah, for burial. Interment was at Malad, Idaho. The PB4-Y2 plane Lt. Castleton piloted, crashed on a weather reconnaissance flight.

Lt. Castleton graduated from Bear River schools and then attended Utah State where he was affiliated with Pi Kappa Alpha. He had been in the service since June 1941.

A skeleton washed up on the beach of the Salton sea, 15 miles northwest of Niland, California, was identified as that of Navy Ensign Don U. Johnson of Lehi, Utah. The pilot vanished last July 1 while on a routine flight and his plane is believed to have crashed at sea. Pieces of Johnson's flight jacket were found nearby on the beach.

Ensign Johnson was educated in the Lehi schools and later attended Brigham Young University and Utah State.

Know Your Aggies

Dan P. Thurber '25 is secretary-manager of the North Montana State Fair in Great Falls which, according to him, is the largest and best fair in the northwest.

His principal interests, besides managing the fair, is in the development of the irrigation resources and the livestock program for the Great Falls area. He also owns a small irrigated farm seven miles west of Great Falls where he specializes in the production of platinum silver foxes. They are also fattening from 3,000 to 5,000 lambs annually.

Mr. Thurber is married to Myrle Seegmiller of Richfield, Utah, and they have two children, Jeanine who is 14 and a high school freshman specializing in the cello, and Bert who is 10, a fourth grader and president of his class.

After graduation in 1925, Mr. Thurber taught vocational agriculture for five years at Dillon, Montana. He then went to the Extension Service to serve the Sun River Irrigation project with the Bureau of Reclamation, which project is located just west of Great Falls. In 1934 he became county extension agent for Cascade county and moved to Great Falls. From 1939 to 1941 he served as Agricultural development agent for the Great Northern Railway Company in charge of development work



Dan P. Thurber

in Montana. He then assumed the duties as secretary-manager of the North Montana State Fair.

Since living in Great Falls, Mr. Thurber has served his community well, being past president of the Kiwanis club, a member of the Chamber of Commerce, and the Montana Reclamation Association.

The Outlook For The College

By President Franklin S. Harris

I feel certain that every one who loves Utah State Agricultural College is thrilled at the present high status of the institution and at the increased opportunities for service which lie immediately ahead. Truly every alumnus of the college can be proud of the record of his alma mater, and he may well view with enthusiasm the prospects of the future.

In times of national stress, such as the one through which we have just passed, it is easy to appraise the value of an institution like this one. The technical information that has been developed by the scientists in the college has been of unusual value in helping the nation to accomplish the great tasks which it set for itself—the tasks of preserving freedom for mankind and of making of the world a better place in which to live. Also USAC-trained men and women by the thousands made scientific and military contributions of the highest value to the nation.

Just now, however, we are not so much concerned with the past as with the present and the future. Today the college is doing its part to help compensate the men and women who gave their all in the national emergency. These young people, literally by the thousands, are coming into the institution to get the education which was denied them during their period of service. This year we have approximately 2500 service men and women enrolled in the college. They are an exceptionally fine lot. Doubts as to the quality of the service men and women who would enroll in colleges have been proved almost wholly baseless for it is evident that these young people mean business; they are here to get an education. I am sure that an alumnus of the school would be thrilled if he were to come here and see these ex-service people in action.

Students Bring Problems

The G. I.'s of course bring certain problems to the institution. These problems usually result from congestion. The 4000 students who are on the campus have to be provided with classrooms and laboratory space and instructors. They demand the best in a teaching staff and in equipment, and they are entitled to it. Our favorable contract with the government for training the veterans enables us to have equipment in the institution that could not previously be afforded. We are spending hundreds of thousands of dollars this year in improving the physical facilities of the institution. These improvements cover all departments of the college.

Due to the generosity of our government we are also able to add very greatly to the housing facilities which can be provided at the institution. Many of our ex-service men

are returning with wives. This means they cannot live in the traditional college boarding houses; they require housekeeping facilities. Through the erection of pre-fabricated houses, quonset hut apartments and other facilities such as the Woodruff school dormitory, the institution will be able to care for a very large number of incoming veterans. During previous times the college was concerned chiefly with giving instruction, but now, in addition, it must also give consideration to the proper housing of the students. This problem gives deep concern to the administrative officers, but when the problem is solved there will be available a facility which will help the institution give a much larger service than could be rendered during previous years.

It is estimated by those who are best informed on the subject that the G.I. training will extend for more than ten years in the future, and that the maximum enrollment of service men will not be reached for several years. This means that a large en-

rollment of the country during these emergency years. The fact that these colleges were designed to be "people's colleges" and to meet the needs of the agricultural and industrial classes make them fit particularly well into the present situation. This is true because just now the college enrollments represent a cross section of the people. The students are not merely the sons and daughters of the well-to-do who previously furnished more than their share of college students. With the present government aid the son or daughter of a poor widow is just as likely to be in college as is the son or daughter of a rich man. Those of us who are here in Utah State Agricultural College, therefore, feel very fortunate in the traditions that have grown up in the institution and the assignments that have been made to it under federal and state laws. We feel an assurance that the institution is able to cope with the situation in the way that gives pride to all who love the college.



rollment in the institution is insured during the coming decade if the institution itself is prepared to supply the demands that will be made of it. We are thinking, therefore, in terms of a long period of service and not merely of meeting brief emergency.

Registration Heavy

All of the seven schools which comprise Utah State Agricultural College have a heavy registration. This means that the institution retains the fine balance which we all like. The Land-Grant colleges of the country seem to be particularly well suited to meet the educational needs

We are having to erect some temporary buildings, many of which have been given to us by the government. These will serve the present period and then will be replaced by more permanent structures. Even if the institution had the funds to erect large permanent buildings it could not construct them in time to meet the present need. We are, therefore, using some temporary structures, but in the meantime plans are being laid for many permanent buildings of high quality. We are making definite plans for a large building which we

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Utah Cooperative Snow Survey

By George D. Clyde*

The climate of Utah is characterized by wet and dry seasons. The wet season corresponds to our winter and the dry season to our summer. Precipitation occurs during the summer but is usually small in amount and not sufficient to supply the moisture requirement for agricultural crops. Most of the precipitation occurs during the winter season and of this the larger part falls in form of snow. This snow accumulates on the high watersheds and forms the principal source of the runoff of the many streams which supply water for irrigation, municipal, power and industrial purposes.

Precipitation varies with elevation but not according to any fixed law. On the Logan River watershed, for example, one year the increase in precipitation with elevation was 1½ inches of water per one thousand feet, whereas in the succeeding season the increase was 13 inches per thousand feet of elevation. Therefore, measurement of the precipitation on the valley floor is not a good index of the amount of precipitation that has fallen during the same storm on the high watersheds.

Streams Are Snow Fed

The runoff from Utah's streams follow a typical pattern. Most of the streams are snow fed, a few of the streams, particularly in the southern part of the State, are modified by intense summer storms where the precipitation occurs in the form of rain. The snow fed streams are characterized by a very low water period from the first of October until the following late March or early April. This is the period of snowfall and low temperatures. Along about late March or early April the snow, which had accumulated on the watersheds, starts to melt and as this melting gets underway the streams begin to rise. By the middle of May, or the first of June, they have reached their peak flow. The stream discharge decreases rapidly after the peak flow is reached because, by then, most of the snow storage has been converted to water and appeared as runoff. The typical summer flow stage is usually reached by the first of July and maintains until the end of the irrigation season about the first of October.

Streamflow records indicate that approximately 80 percent of the runoff from Utah streams is derived from 20 percent of the states area. This area lies, for the most part, above the 7,000 feet in elevation. It is here that the precipitation occurs in the form of snow and accumulates during the winter season to form the "White Gold" which is later converted into water for domestic and municipal, irrigation, power, industrial and recreational purposes.

Natural streamflow usually does not coincide with man's need for water. In order to fully utilize a stream



Water in snow storage is Utah's "White Gold". Note the layers of the snow.

it must be controlled. Control is obtained by building storage reservoirs for holding excess flows until the water is needed. On many streams such storage reservoirs are not possible. Under such conditions the use to which the water is put must be adjusted as far as possible to coincide with the flow. To do this effectively the amount and distribution of flow must be known before it occurs. To meet this requirement, methods of streamflow forecasting have been developed.

The accumulated snow, in storage on a given watershed, being the principal source of water, a knowledge of the extent, water content and character of the snow cover is essential

if the potential water supply from that area is to be determined. The snow cover, therefore, must be measured.

Precipitation, which falls as rain, is ordinarily measured in a standard rain gauge. This is a can with mouthpiece eight inches in diameter. The can is set in a vertical position with the mouthpiece horizontal. The use of this type of equipment for the measurement of precipitation, which falls as snow, is not satisfactory because the snowflakes vary in size, shape and weight and are effected materially by wind and air currents. Furthermore, the total precipitation which falls on a watershed is not always a good index of the runoff

* George D. Clyde graduated from the Utah State Agricultural College in 1921 and after doing graduate work at the University of California, returned to the college as an instructor in irrigation. He successively became assistant professor, professor and since 1935 has been Dean of the School of Engineering, Industries and Trades. Since 1923 he has been a member of the staff of the Agricultural Experiment Station and for 22 years conducted research in hydrology directed toward the development of a method of forecasting the runoff from Utah streams. As a result of this research, streamflow forecasting, based on snow surveys, has become an established practice in the 11 western states.

On February 1, 1946, Mr. Clyde resigned with the college to become Chief of the Division of Irrigation and Water Conservation, Soil Conservation Service. In his new position he will direct the irrigation research program of the United States Department of Agriculture in the 17 western states. His headquarters are at the college and he will continue cooperative research work with the Agricultural Experiment Station in the field of streamflow forecasting.



Measures Utah's "White Gold"

from that watershed. Precipitation which falls as rain, in light showers, is often entirely evaporated and/or transpired and contributes nothing to runoff. Snow which falls and is melted during winter thaws often contributes little to the following season's runoff. A measure of the water in accumulated snow storage at the end of the winter precipitation season, therefore, furnishes the best index of the potential water supply from a given watershed.

Early Attempts

The first records of snowfall were reported by Governor William Plummer of New Hampshire in 1796 and at intervals by others, including the Signal Corps of the U. S. Army, during the next 100 years. No attempts were made to determine the water content of the snow cover. The Smithsonian Institution made some early measurements of water content by melting a given volume of snow. From these measurements it was assumed that it took 10 inches depth of snow to make one inch depth of water. Thomas A. Mixer of Maine and R. E. Horton of New York in 1903 cut cores of snow and weighed them to determine the water content. This method of determining the water content of snow cover was improved by Dr. J. E. Church of Nevada in 1909 and George D. Clyde of Utah in 1923. The adoption of aluminum tubing for the snow sampler and the Utah scale, designed by Clyde, has now become standard equipment for determining the water content of snow all over the world.

Snow surveys were first made in Utah in 1906 by J. C. Alter of the U. S. Weather Bureau when he and H. K. Burton, Superintendent of the Water Works Department in Salt Lake City, made a survey of the City Creek Watershed near Salt Lake City. They used a stove pipe to cut cores of snow and an oil stove to melt the cores. This method of determining water content was not practical and the surveys were abandoned. Later in 1914 the Weather Bureau, in cooperation with the Forest Service, installed snow stakes at various locations on the high watersheds and these stakes were read monthly to determine the snow depth. Few attempts were made to determine the water content and no attempts were made to relate the depth of snow cover to runoff. The snow stakes were often poorly located and by the early twenties most of them had been abandoned.

Utah Agricultural Needs

The agriculture of Utah depends upon an ample supply of water for irrigation purposes. The year 1916 was one of high water and damaging floods. In 1919 water supplies were limited and most of the west experienced a serious drought. By 1922 high spring runoff was again prevalent and damage from floods resulted. This wide fluctuation of water supply

for irrigation and power, and the recurring damage from floods, emphasized the need for further information relative to the source of supply and the characteristics of runoff from streams draining the high watersheds of the state.

In 1932, Director William Peterson, Utah Agricultural Experiment Station, assigned to the author the responsibility of determining the relationship between precipitation on and the runoff from the watersheds of Utah. As a result of this research, the Utah cooperative snow survey network was established and the precipitation-runoff relationships determined for the principal watersheds of the state. Under the leadership of the Irrigation Division of the Soil Conservation Service cooperative snow survey networks have since been established covering all of the major drainage basins in the eleven western states. Based on these snow surveys, forecasts of potential water supplies from the major streams in these basins are made annually prior to the runoff season.

Forecasts Made

Water supply forecasts are based upon the theory that the accumulated snow cover on the high watersheds is the principal source of water for the streams draining those watersheds. A measure of the water in snow storage provides an index of the amount of runoff that will occur during the following season. The procedure followed is to establish on a given watershed, at representative locations, snow courses over which measurements of the water content of the snow cover are made at the end of the accumulation season. These measurements of the water content of the snow cover, compared

to the subsequent runoff from the watershed concerned, provides the basic relationship necessary for the making of a water supply forecast.

Snow courses are located at high elevations, usually above 7,000 feet, in protected areas so as to eliminate the effect of drifting. A snow course may have from 10-30 points at which the water content is determined. The courses are marked with iron posts. The points of measurement are determined by measurement from fixed markers so that the measurements are made at the same point year after year.

The water content of the snow cover is determined by cutting out a core of the snow and weighing that core. The equipment used consists of a snow sampler, which may vary in length from three to 30 feet, depending upon the depth of the snow. The sampler is built in sections so that one or more sections may be used at one time. At the lower end of the first section is a tool-steel cutter designed to cut through any ice layers that may be encountered in the snow profile. The sampler tube is calibrated on the outside in inches and it is provided with alternate slots about 1/16 of an inch wide staggered throughout its entire length. The slots are provided to enable the observer to determine the length of the core of snow. The scales, on which the core is weighed, consists of a tubular spring balance calibrated to read directly the inches of water in the snow core. For convenience the diameter of the cutter is 1.485 inches. One inch depth of water in a cylinder of this diameter weighs one ounce. Therefore, any good commercial scale reading to

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Field party returning from snow survey. Left to right: Skier picked up in the mountains with a broken ski; Cleve Milligan '32 and Mr. and Mrs. Roland Lindsay of Payson, Utah.

Utah's "White Gold"

(Continued From Page 7)
ounces could be used for determining the water content of the snow cover.

Procedure Is Simple

Procedure in making a snow survey is rather simple after the snow course is reached. The survey party, which usually consists of two men, starts at the initial marker and measures to the first point of measurement. At that point the snow sampler is thrust vertically into the snow with a rotating motion until the ground surface is reached. The sampler is then thrust slightly into the ground in order to pick up a thin plug of mud which prevents the snow core from falling out while the tube is being withdrawn. After withdrawing the tube from the snow, the mud plug is removed and the snow tube and core placed in a sling which is attached to the scale. The weight of the snow tube and the core recorded. The core is removed from the snow sampler by inverting the tube and jarring it. The weight of the empty tube is then determined and the difference between the two weights equals the water content of the snow cover in inches. The snow surveyor records the depth of snow, the length and water content of the snow core, the condition of the earth mantle under the snow and any other abnormal conditions that might effect the water yield from the snow cover. The party then moves on to the next point of measurement which is at a given distance from the first where the procedure is repeated.

Snow surveys are difficult to make and are often hazardous to the personnel making them. The high watersheds in the winter are usually uninhabited and inaccessible. Few roads are kept open and therefore transportation over the mountains in the past has been by snowshoes or skis. Winter storms often descend upon the surveyors and for safety shelter cabins, stocked with food and supplies, have to be provided at frequent intervals, 10-15 miles. Under good weather conditions a man can make 15-25 miles per day on skis or snowshoes, but when the snow gets soft or storms of blizzard proportions occur 10 miles is a hard day.

Snowmobile Developed 1940

To overcome the difficulties of winter transportation in the mountains several attempts have been made to develop a power driven vehicle which would travel over deep snow. The Utah snowmobile, developed in 1940 at the Utah Agricultural Experiment Station, offers considerable promise. The early model was very effective but was too heavy. This model has been replaced by a light machine designed to carry two men and pull a light trailer. This machine weighs less than 1,000 pounds and can be transported on a ½ ton pickup truck. This machine will be useful to telephone and power company line maintenance crews, forest and park service patrolmen, U. S. Geological Sur-

vey, hydrographers, ranchers, winter recreationists as well as snow surveyors.

The Utah Cooperative Snow Surveys now include 84 snow courses located on the major watersheds of the State. These courses vary in elevation from 6250 to 10,500 feet. Seasonal water supply forecasts based on these snow surveys are issued about April 10 each year for the principal drainage basins. Additional snow courses are needed to enable forecasts to be made on local tributaries. The forecasts are made for the most part at points above irrigation diversions, power plants or diversions for other uses.

Since the development of streamflow forecasting, based on snow surveys, in Utah, cooperative snow surveying and streamflow forecasting has been extended, under the leadership of the Soil Conservation Service to the eleven western states where some 925 snow courses are now measured and water supply forecasts are issued covering the Columbia River Basin, the Missouri River Basin, the Colorado River Basin, the Great Basin and the California streams. These forecasts are used as a basis for planning agricultural planting programs, power generation programs, the operation of irrigation, power, and flood control reservoirs and for planning recreational and industrial uses.

Drought Conference

During the relatively few years since water supply forecasting, based on snow surveys, became a service to water users, huge benefits from this program are in evidence. The first major contribution from snow surveys and streamflow forecasts occurred in 1934. That year in Utah the potential water supply on April 1 was only 35 percent of normal. This condition was brought to the attention of the Governor of Utah through the April 1 water supply forecast and he immediately set in motion machinery necessary to meet the situation. **He called the first drought conference in history to be held before the drought occurred.** At this conference two lines of action were developed: First, to put into effect immediately a water conservation program, and second, to begin immediately the development of supplementary water supplies so that they might be available by the time the crops needed the water.

The water conservation program involved an educational campaign to acquaint the water users with the situation and the modification of acreage planted, methods of irrigation, and administration of the water in order to secure a maximum use of the water available. Unusual as it may seem, the water users of the state, in the main, were unaware of the seriousness of the situation. They had not been in the habit of considering their water supply above their

headgate. They assumed that high water would come because it had always come before, and they did not take into consideration whether or not there was any water on the watersheds to supply the streams.

As soon as the water users were convinced that a real shortage of water existed, they began planning and executing a program to combat the drought. They did not wait until the drought was upon them before beginning operations, and as a result they matured most of the crops they planted, they saved their orchards and perennial plantings, they moved their livestock off the ranges and out of the state before they starved, and they developed supplementary water supplies for irrigation and culinary purposes before the ordinary sources of supply dried up or got so low as to be unable to meet the minimum demands.

Crops Saved

The water development program which was inaugurated following the issuance of the water supply forecast enabled the state to develop, in time for use in saving crops, approximately 400,000 acre-feet of water. Estimates based on measurements made during the season of 1934 indicate a saving in crops alone due to the program of water conservation and development of supplemental water supplies was over \$5,000,000 in Utah alone. On the Bear River, which supplies lands in Utah and Idaho, a total of 130,225 acres were supplied with supplemental water by this program. It resulted in a saving in crops of \$3,149,000 in Utah and \$684,000 in Idaho, or a total saving of \$3,833,000 in the two states. In addition to this, a tremendous saving in livestock was effected through the Federal purchase plan which took the cattle off the ranges and out of the state before they starved or choked to death.

The water supply forecasts enabled municipalities to early inaugurate water conservation programs and supplementary development programs which gave them sufficient water in most instances to carry them through the drought. It enabled power companies to provide supplemental steam power in advance of its needs. Early warning of a water shortage enabled Salt Lake City (population 150,000) to develop a supplemental water supply of 45-50 second-feet ground water sources to avert a serious municipal water supply shortage. Many small communities actually had to haul water for a short time until the supplemental supplies could be made available. These later benefits cannot be evaluated in dollars and cents, but they rank in prevention of human suffering and perhaps death.

The experience of Utah in 1934 was duplicated in many other Western States and clearly demonstrates the value and necessity of seasonal snow surveys upon which streamflow



Early model of the Utah Snowmobile (right) and a new light machine. Light over-snow vehicle used in making Utah Cooperative Snow Surveys.



This picture taken at the Gooseberry Watershed in Sanpete county with an elevation of 9,000 feet.

forecasts may be based.

We have considered heretofore the value of snow surveys and stream-flow forecasts only from the standpoint of water shortage and the effect of such shortages upon irrigation, power and municipal uses. Such surveys and forecasts are just as valuable from the standpoint of flood protection and the operation of flood, power, and irrigation storage reservoirs. Water under control is man's greatest asset. Out of control it may become his greatest enemy.

Potential flood conditions are revealed by snow surveys. In 1936 the benefits of snow surveys and stream-flow forecasting, from a slightly different angle, have been made evident. The winter of 1935-1936 was one of heavy snowfall on the watersheds of Northern and Central Utah. The snow cover measurements on April 1 indicated an exceptionally

large quantity of water in snow storage. In addition to the heavy high snow cover there was an unusually heavy low snow cover of high density. These conditions represented potential flood flows on many of our streams. Warnings were issued prior to the runoff season with the suggestion that stream channels be cleared if the damage from high spring runoff was to be minimized. On many streams such precautions were taken, and the high water did very little damage; on other streams no precautions were taken, and as a result considerable damage occurred.

On the price River a peculiar condition existed. The Scofield Reservoir contained approximately 12,000 acre-feet of hold-over storage. The capacity of the reservoir was limited to 30,000 feet due to damage to the dam which occurred in 1928, and to an inadequate spillway and outlet tunnel

capacity. The heavy snow cover on the watershed on April 1 caused considerable concern among the people who lived below the Scofield Dam, and therefore, they requested the State Engineer to empty the reservoir. On the other hand, the irrigators, who were dependent upon the water from this reservoir for their irrigation supply, were opposed to the emptying of the reservoir because they felt that possibly the runoff from the watershed might not be sufficient to refill it. Snow surveys had been made on this watershed since 1925 and based on these snow cover measurements and available streamflow records, there appeared to be a potential runoff in snow storage above the Scofield Reservoir on April 1 of between 60,000 and 70,000 acre-feet. This was approximately twice the capacity of the reservoir. A conference of all interested parties was called by the State Engineer at which time all of the conditions pertaining to the water supply, snow storage, runoff characteristics of the watershed, and the conditions at the reservoir and dam were discussed. A plan of reservoir operation based upon snow cover measurements was decided upon at this meeting and accepted by the group. This plan of operation provided for the immediate emptying of the reservoir and keeping the gates open until a total of 20,000 acre-feet of water had passed through the outlet tunnel, at which time the water commissioner was authorized to close the gates either partially or completely depending upon the snow cover remaining on the watershed. By means of periodic snow cover measurements it was possible to so regulate the storage that by the end of the runoff season the reservoir was filled to capacity. This plan was carried out, and in spite of the fact that practically no precipitation occurred during the period April 1 to May 1 the reservoir was completely filled by the beginning of the irrigation season. The reservoir had been operated so as to assure minimum danger to the inhabitants below the dam and at the same time assure a full and complete irrigation supply to the water users. Such a program would have been impossible without the information furnished by the Utah Cooperative Snow Surveys.

Adequate Water Stored

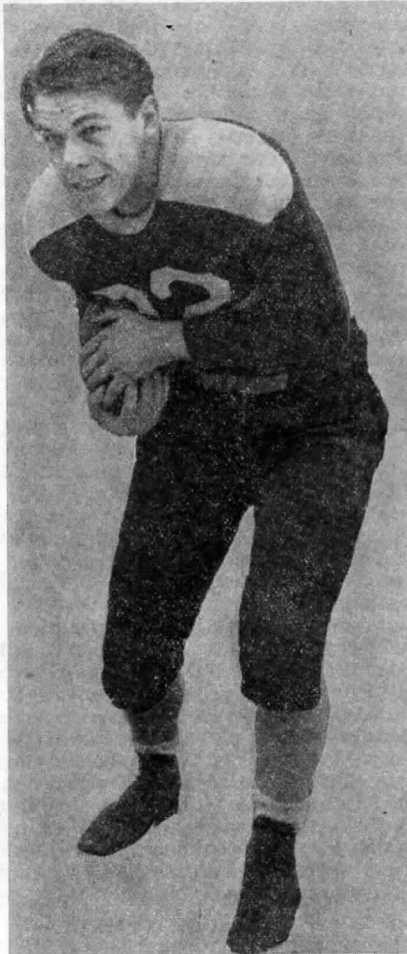
In 1937 a similar condition existed on the Price and the Beaver Rivers. The State Engineer regulated the storage on these streams according to the potential supply of water available on the watershed as shown by the snow surveys. Again he successfully passed the flood flow without damage and yet stored an adequate irrigation supply. Here, again, the benefits cannot be evaluated in dollars and cents, but when potential flood conditions are known to exist precautions can be taken to clear channels, protect bridges, and head works, released accumulated storage and thus greatly reduce the damage

(Continued on Page 14)

"It Runs In The Family" Say Championship Aggies

The old adage, "Like father, like son," proved itself to be only too true this year as one of Coach Romney's gridders turned the tide that won another football game from the highly touted University of Utah Redskins in the annual Turkey Day tilt, as did his father many years ago.

It was in 1932 that **Clyde Worley**, drop-kicker deluxe, booted three field goals that won the game from Utah 9-3. Although the score in this year's Thanksgiving day game was considerably more, **Johnny Worley**,



Johnny Worley C'49

freshman son of Clyde Worley, was accredited with the 47 yard touch-down run that put the game on ice for the Aggies as they defeated the Utes 22-14 before the largest crowd ever to witness an athletic event in Utah's history.

Utah State was trailing 14-6, and things looked pretty dismal in the Aggie squad, when one of the Utes was tackled by Norvel Hansen, freshman end, behind their own goal line and gave the Ags two points. With the score 14-8, Johnny broke loose for his spectacular 47 yard jaunt

that put the Blue and White team back in the ball game. Bill Ryan's placekick was good and so was the fighting Farmer spirit. In no time at all, the Aggies had another touch-down and another extra point to completely snow under the high-flying Redskins. Young Worley's run had done the trick.

Johnny made a good account of himself all during the season, and was termed by the opposition as one of the hardest driving and hardest tacklers in the circuit.

Another "father-son" combination connected with the team this year is the **Nelsons . . . George "Doc" and George "Grog."** Doc is the good-natured trainer who has been at the college since 1923, and "Grog" is George Jr., one of the best tacklers ever to cavort for Utah State on the gridiron. Although "Doc" did not play football, his training and conditioning of Aggie athletes has contributed immensely towards their success during the last score and three years.

George Jr. was converted from a fullback to a tackle this fall and turned in some splendid performances—good enough to be named to the all-conference selection.

One thing in common both father and son have is that they both like to wrestle. "Doc" has coached more



George "Grog" Nelson C'47

championship wrestlers than Carter's have pills and George Jr. is considered one of the best heavyweight wrestlers at the school.

Although not father-son, **Ralph Maughan**, all-conference center, and **Bill Ryan**, semi-regular fullback, are following in their older brother's footsteps when it comes to football. Ralph is younger brother to all conference center **Murray Maughan**, while Bill is younger brother of All-American **Kent Ryan**. Ralph was named the outstanding player of the season and captain of the all-conference team.

Key to the City of Fresno



Jenna Vee Lundahl C'47 shows the coveted Fresno "Key to the City" to a group of admiring footballers: **Ralph Maughan**, **Nephi Schwab**, **Boyd Hulse**, **Merlin Maughan**, **Demont Walker**, **Moroni Schwab**. The key was presented to **Coach E. L. Romney**.

Utah Aggies Take Conference Honors, Play In California's Raisin Bowl

By LYN "Swede" LARSON C'47

Although rated as fourth or fifth place in the conference at the beginning of the season last fall by the sports writers from the intermountain papers, Coach E. L. "Dick" Romney's "Darlings" surprised even the most optimistic and battled their way to tie Denver University for the Big Seven football gonfalon.

Utah Staters feel that they are undisputed champs by virtue of their impressive 28-14 win over the Pioneers, the team they tied with. This is the first championship since 1936, and the days of all-American Kent Ryan.

"It's the spirit of these fine fellows that have won for them this splendid honor," Coach Romney stated. "I've never coached a team that has worked together so smoothly. Our coaching staff, the first in our history, has done a splendid job. Tuff Linford, line coach, Paul Marston, assistant coach, Joe Whitesides, end coach and one of the best scouters in

the business, and Bebe Lee, who helped out with football before starting workouts with his basketball team. All these factors have been very influential in our success this year."

By virtue of their outstanding play, Utah State placed four men on all-conference selections. Ralph Maughan, a repeater from 1942 at the center position; Frank "Bus" Williams, a hard-driving fullback who handled the punting for the Ags; George Nelson, converted from a fullback to tackle; Jay Van Noy, sensational freshman half-back. Jay annexed the scoring honors during the season with 34 counters.

Only one man will be lost from the 1946 team by the graduation route. Ferron Sonderegger, all-conference tackle in 1942 but who was kept out of the line-up this season with an injured knee, is the only member of the squad slated to leave the campus.

Utah State has a mascot! For the first time in the history of the hill-top school, we have an emblem that has already endeared itself in the hearts of all Utah Staters.

To followers of the Utah gridders during this year's football campaign, "Sirloin," the Aggie Bull, is a familiar sight parading on the field before the game, during the half-time, and after each touchdown. Although not quite as famous yet as the Navy's "Goat," "Sirloin" brought rousing cheers from the Aggie stands when he "waltzed" or "two-stepped" onto the gridiron in step with the college band playing "I'm an Ol' Cow Hand."

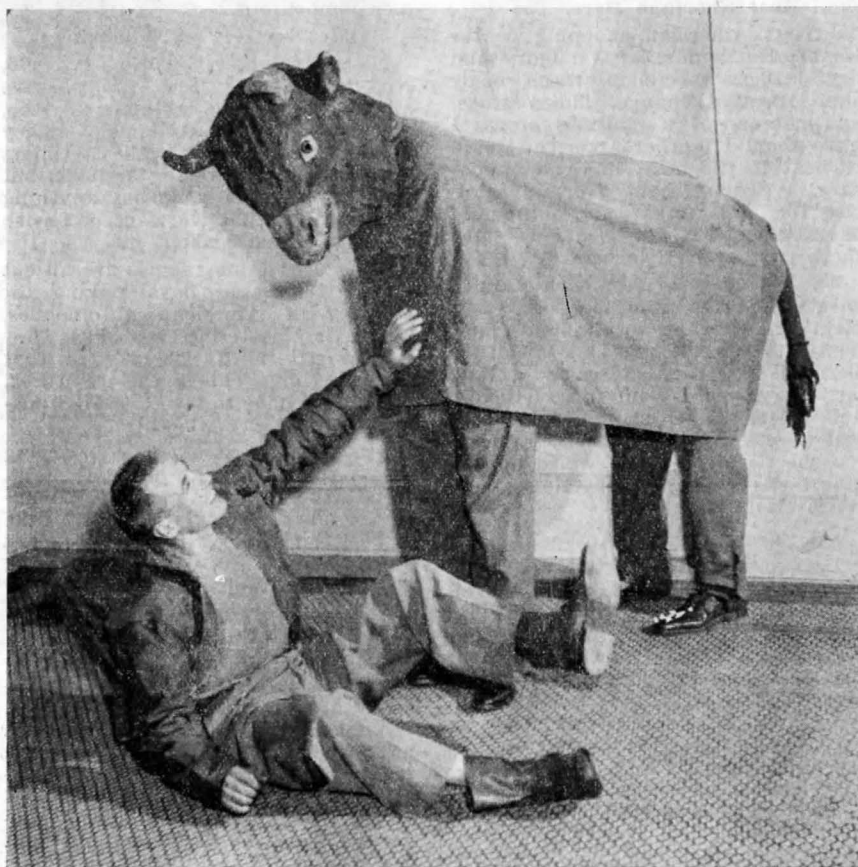
"Sirloin" was born when the Executive Council of the Associated Students were scratching their heads to discover some suitable mascot that would help arouse school spirit at our games and form a fighting emblem for the team. It was decided to try and find some costume house that could furnish them with a likeness of a bull. A Salt Lake City firm dug up a bull costume and the council bought it.

With the costume on hand and the gala Homecoming game drawing near, Councilman Vern Eyre hunted desperately for a couple of willing students to fill out the bull. No volunteers! With only one day left until the big game, he grabbed a couple of innocent but eager freshmen in the halls and shanghied them into the bull. Bob Sorensen, son of Prof. A. N. Sorensen '37 H and Walt Welti, son of Prof. Walter Welti, '37 H, were the victims. A big buildup was given before game time and every spectator and student alike were anxiously waiting to see "Sirloin." "Sirloin" appeared. And he trampled the Colorado ram in the dust. He won the love of everyone and was given to the Athletic Council to accompany the team wherever they went.

"Sirloin" carried on in great shape the rest of the season. After decisively beating the Colorado Ram he next wiped out Montana U to the tune of 27-7. The Cowboy from Wyoming was no match for "Sirloin" as was the Indian from Utah and the Pioneer from Denver. "Sirloin's" only defeat came at the hands of the San Jose Spartans in the Raisin Bowl at Fresno, California. Experts say that this was due to too much New Year's eve. The hay in Fresno was bad.

Win, lose, or draw, "Sirloin" is here to stay and will go on traveling with the team and cavorting on the field during the game. Utah State is proud of the success of their team this year and all give some of the credit to "Sirloin." Yes, Utah State has a mascot.

Alumni, Meet "Sirloin"!



"Sirloin", Aggie mascot, wins another victory over Lyn "Swede" Larson, student body president. Front of the bull is Bob Sorensen C'50 and the back half is Walt Welti C'50.



David and Mae Latimer '42

Editor's Note: Lt. David A. Latimer Jr. and his wife, Mae Anderson Latimer, are both graduates from Utah State with the class of 1942. Mae left early last fall to join her husband in Europe. Just prior to leaving Logan, where she had been making her home with her parents, Mae stopped in the Alumni office to take out a joint life membership for David and herself.

With The Class of '68

Wayne James and Ruth Bowen James announce the arrival of a son born December 5 in Oakley, Idaho.

Mr. and Mrs. Eldon "Mike" Meik C'47 announce the arrival of their second daughter, Janet Leigh, born November 11 Missoula, Montana. "Mike" returned to Utah State winter quarter to complete his studies.

Mr. and Mrs. Boyd Jacobsen C'47 announce the arrival of their first child, a son Robert William, born in Logan November 1. Little Robert is the first baby born in Cache Valley to an American father and a "foreign mother." Mrs. Jacobsen is from Freyming, France—near Metz. They met at a dance celebrating V.E. Day. Mr. Jacobsen is attending USAC majoring in chemistry.

Lt. Lynn J. Lunt and Maxine Slack Hunt announce the arrival of a son born in South Carolina in October.

Mr. and Mrs. Clifton J. Davis '37 announce the arrival of a son, Clifton Bruce, born September 12 in Honolulu, T.H. Mr. Davis is a ranger naturalist in the Hawaii National Park, and has done outstanding work in his study of the insect fauna of the park.

Verna Meyer Anderson and Jack Anderson announce the arrival of a daughter born Christmas Eve at the Dee Hospital in Ogden, Utah.

Alma Erickson Heinrich and John Heinrich announce the arrival of a daughter born in Cleveland, Ohio. Mr. Heinrich was formerly an instructor of radio at Utah State.

Life In Germany As Army Occupation Wife Related By Aggie Graduate

By Mae Anderson Latimer '42

After months of Army red tape concerning my passport, overseas shots, priority number, and shipment of household goods, I found myself on the Atlantic ocean tossing merrily (the ship, that is—not me) towards Germany. I was headed for Bad Kissingen, Bavaria, where David is stationed with the 64th Fighter Wing.

The crossing took ten days, and the sailor-type hammock I slept in had almost begun to fit me when we docked in Bremerhaven. After an overnight trip on a nice Pullman train, where we rolled from engine to caboose instead of from rail to rail, the 26 dependents going to Bad Kissingen finally met their various and assorted husbands (assorted because one excited girl grabbed the wrong man and kissed him).

Bad Kissingen is a hot springs resort town about the size of Logan, and is about 20 miles from the infamous Schweinfurt and its ball bearing plant. The houses all have red tile roofs and they look so picturesque among the green pine trees. The town was unbombed and unbullet-holed during the war, but the sections of Munich, Nurnburg, and Schweinfurt we have gone through, are practically on the ground.

Meat Shortage Here, Too

In our American shopping center we have a commissary, laundry and dry cleaners, shoe shop, watch repair shop, Post Exchange, ladies store, and rumors of a clothing store. I have about 175 other American wives to beat to the meat in the commissary. We don't fight over anything else for it is either not obtainable or rationed, but for meat, we "get there first or no liverwurst".

The army provides each family with a German housekeeper, and mein Frau speaks no English which makes things difficult as I speak no German. This necessitates my acting out everything I want to say to her and I feel like a silent screen star. Not a very good one either, I guess, for she performs some weird household tasks when I'm expecting something else.

Sardines Twice A Week

Latimer's Lodge is a very nice apartment mostly because David worked so hard on it. However, my prize electric stove is worthless on Wednesdays and Thursdays when the electricity is turned off to conserve coal. Thus, we have two Sardine Days a week. The coal situation is very bad. Nothing is heated except the billets, and those only half-heartedly. Now I know how it feels to be an Eskimo. If we go to the movie and it is anything less than a hot Jane Russel picture, we give Birdseye Frozen Foods competition in the art of quick-freezing.

Some of my German neighbors are

quite friendly, out of curiosity, I think, but not all of them are so chummie. I walk down the streets smiling broadly at everyone just like a politician in October, but usually get glares in return. The women in particular, frown and make faces at me. They are fairly well dressed and also look quite well fed, but this is one of the many, many unharmed farming communities and the people grow a lot of their own food.

On The Visiting List

The army conducts a program called German Youth Activities, in which boys and girls up to 16 years of age participate in baseball, basketball, quiz programs, amateur nights, and evidently on the list is "Visiting the Latimers", as we usually have from two to five German boys here at a time. They are taught English in school and use the latest slang as well as any American soldier. We enjoy listening to their stories of being Hitler Youths, and their ideas of what Americans are like.

"Americans are all gangsters," they were propagandized, and they became convinced of that when the first American tank rolled into town and a dirty, unshaved American soldier jumped out.

They Say We're Millionaires

No matter how much I say, "No, No, 'tis not so", they are positive all Americans are millionaires, too, and own a big automobile. They overlook the fact that the Latimers have no automobile, big or little, but they are sure we could buy anything in the world that we wanted. I wish I were that sure about it.

My stateside magazines are all cut up by the eager boys looking for pictures of American automobiles, which they paste in scrapbooks. They talk wistfully of someday in that distant thing called the "Future", when they hope to own a 1947 Studebaker—but don't we all!

Our greatest struggle is in trying to get the kids to go home at night. It is either our magnetic personalities or our candy (and we won't take a vote on that) that they cannot seem to leave. So, we start yawning broadly about nine o'clock and they get the idea about eleven-thirty.

News of Aggie Victory

One weekend, we were returning from a trip to Garmish-Partenkirchen, a heaven in the Bavarian Alps. While riding along Hitler's Autoban near Munich, we were listening to the radio announcer on the Munich-Stuttgart station giving football scores from the states. All of a sudden we heard the fact that the Aggies had beaten Denver University, and were tied for Conference football champs. That was indeed good news in any land—even Germany.

Aggie Hopes Center On Big Seven Title For Basketeers

Utah State's small but fighting cagers, the first real post-war team, are following right along in the football team's footsteps in surprising even the most optimistic with their impressive basketball victories both conference and non-conference.

Highlighting the squads activities this season was their 15 day tour of the eastern states and their seven game schedule. Coach H. B. "Bebe" Lee's courtiers opened their barnstorming tour against Bradley University in Peoria, Illinois. Although they were ahead at the half time, Bradley poured on the steam in the last canto to swarm under the Ags 72-53.



Coach H. B. Lee

From Peoria the Utags moved to Springfield College, Boston, Mass., where they scored their first win, 63-55. American International College at Springfield, Mass., was the next victim of the high-flying Farmers to the tune of 58-40. St. Joseph's at Philadelphia, Pa., always one of the high-powered teams on the eastern coast, just eeked out at 52-48 victory over the Lee-men. The feature match came when touted Long Island University was pushed

throughout most of the game by Utah State in the Madison Square Gardens in New York City but then surged ahead to finish ahead 56-38, but according to the fans who witnessed the game, the score didn't tell the true story of the game.

After catching the streamliner from New York to Denver, Utah State pried the lid off the 1947 season against Colorado University. The Buffs dropped the Staters 56-45, but at Denver the next night, the Ags bounced Denver 45-44 to gain a .500 batting average in conference play.

Most surprising victory of the season was the 50-49 victory over University of Utah on the latter's home court. They met another toughie the following night in the Cowpokes from Wyoming. The score was tied 29 all with eight minutes to go and the Wyoming height proved too much for the already tired Aggies and they pulled ahead 43-34 at the final bell.

The remainder of the schedule and results are:

December 6—University of Idaho, southern branch, at Logan.

Idaho 31 Utah State 51

December 7—Weber College at Logan.

Weber 35, Utah State 66.

December 13—University of San Francisco at Salt Lake City.

U. of S.F. 35, Utah State 44.

December 14—Washington State College at Salt Lake City, Utah.

Washington State 44, Utah State 50.

December 20—Montana State College at Logan.

Montana State 50, Utah State 54.

December 23—Weber College at Ogden, Utah.

Weber 53, Utah State 44.

January 10—University of Colorado at Boulder.

Colorado 56, Utah State 45

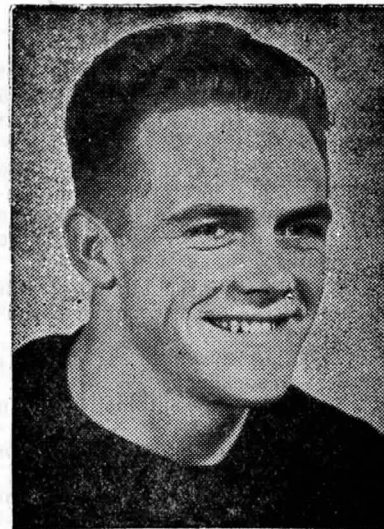
January 11—Denver University at Denver.

Denver 44, Utah State 54

January 18—University of Utah at Salt Lake City.

Utah 49, Utah State 50

January 19—University of Wyoming at Logan.



Jimmy Cleverly, Guard



Norman Jones, Forward

Wyoming 43, Utah State 34

January 25—University of Colorado at Logan.

Colorado 34, Utah State 40.

February 1—Colorado A & M at Logan.

Colorado Aggies 38, Utah State 55

February 7—Colorado A & M at Ft. Collins, Colorado.

Colorado Aggies 35, Utah State 43

February 8—University of Wyoming at Laramie, Wyoming.

Wyoming 60, Utah State 45

February 14—University of Utah at Logan.

Utah 55, Utah State 41

February 22—Brigham Young University at Provo, Utah.

March 1—Denver University at Logan.

March 4—Brigham Young University at Logan.

March 7—Hawaii University at Logan.

1947 Football Schedule

Utah State gridiron followers will have one of the most attractive home schedules next year for many seasons, according to Dr. King Hendricks, chairman of the Athletic Council, who represented the school at the Big Seven conference meeting in Denver December 5, 6, and 7.

Although there won't be as many home games as there were this year, Utah State will play host to the two powerhouses from the other side of

the divide, Colorado and Denver Universities. Colorado U plays here on November 8, and Denver invades the Aggie liar the following weekend, November 15.

Other home games as scheduled are Idaho Southern University, September 26; and Montana University, October 11. Tentative plans for a big name school to come here and play during the centennial year are also taking shape, although no definite word has been announced as yet.

ENROLLMENT RECORD HIGH

Registration for winter quarter brought Utah State's enrollment to a record high with 3,900 students registered.

With this high enrollment, the need for more professors and instructors increased and the following joined the faculty. Many of these are alumni.

L. G. Wines, assistant professor and head of the department of aeronautics.

R. Welling Roskelly '32, associate professor of sociology.

George Pahtz, special instructor in instrumental music.

Dean Peterson Sr '10, instructor in mathematics.

J. Donald Wadsworth '39, instructor in welding.

Jesse G. Nelson '33, instructor in modern languages and mathematics.

A. Alvin Bishop '34, assistant professor of civil engineering.

Stuart F. Hardman '38, instructor in speech.

L. P. Summers '40, instructor in aeronautics.

Lewis Klein Jr., instructor in aircraft mechanics.

Ross Nyman, instructor in woodwork and building construction.

Virginia McQuarrie Swenson, instructor in speech.

Betty Lou Lindholm '45, instructor in English.

Maxine Burgoyne Laser '44, instructor and assistant in bacteriology.

Faye Moser '28, instructor in chemistry and zoology.

Eugene Hardy, instructor in auto mechanics.

R. A. Bush, part-time assistant in botany.

Mrs. Philip F. Fix, part-time assistant in botany.

Cecil Ballanger, part-time assistant in botany.

Eleanor Smith, assistant instructor in instrumental music.

Kenji Shiozawa '40, graduate instructor in landscape architecture.

Gwendella Thornley '40, instructor in the speech department.

Asa L. Beecher added to the staff to inspect and supervise employers engaged in on-the-job training of veterans through the college.

Robert Harrison '37, instructor in physiology.

Theodore Allen '37, graduate assistant in department of zoology and entomology.

Walter Hale Gardner '39, research fellow in physics department.

D. W. Kelley, graduate assistant in department of wildlife management.

Emer Broadbent '42, research fellow in department of agricultural economics.

Owen L. Brough '46, teaching graduate assistant in department of agricultural economics.

Lynn Willy, instructor in auto body repair.

Austin J. Loveless, teaching assistant in mechanical drawing.

Glen Nelson '42, research fellow in department of agricultural economics.

Paul J. Kuhni, teaching assistant in machine practice.

A. Glenn Wahlquist '43, graduate teaching assistant in department of agronomy and soils.

Robert Bradshaw '41, assistant in physiology.

Robert Egbert, graduate assistant in department of psychology.

William L. Jones '11, graduate teaching assistant in radio department.

Alastair McLean, graduate assistant in botany.

Roy Irick, graduate assistant in physics.

Jack Chatelain, graduate assistant in physics.

Martel S. Cooper '41 research fellow, poultry department.

Two professors were granted leaves. They were F. M. Coe '37 granted an extension of leave of absence for one year, and C. J. Sorenson '14 granted sabbatical leave.

MISSIONARIES

Alumni who have recently entered the LDS church mission fields.

Burke Giles, Central Pacific, Honolulu, Hawaii.

Glen Rae Milner and Vernall Wynn Thompson, Southern States, Atlanta, Georgia.

Barbara Quinney, Eastern States, Philadelphia, Pa.

E. Dean Vest and Kelly Thurston, California, Los Angeles, California.

Lyle H. Peterson and Willard Hart Christensen, Danish, Copenhagen, Denmark.

Henry James, Northwestern States, Portland, Oregon.

Ethelyn Dickson, Spanish American, El Paso, Texas.

Lois Peterson, Canadian, Toronto, Ontario, Canada.

Lorin Kenneth Wisner, Western States, Denver, Colorado.

Alvin A. Gabrielsen, Norwegian, Oslo, Norway.

Robert G. Larson, Swedish, Stockholm, Sweden.

The Outlook for The College

(Continued From Page 5)

are calling Agricultural and Forestry Hall, to house scientific instruction and research departments. We are planning for an engineering building and also for an adequate auditorium. We are giving particular consideration to the early erection of a Union Building which will be suitable for housing the numerous student activities. The need for such a building is most urgent. Plans are going forward to get something that will be thoroughly satisfactory in this regard. It is probable that such a building will have to be financed through student fees and the generosity of alumni and friends of the college. It is planned to use some funds which have accumulated.

Recently the institution has acquired some desirable tracts of land near the campus to make possible the expansion of experimental work for poultry, dairying, live stock and other phases of agriculture. With this new space and with the scientific equipment which we are all working

hard to obtain, the institution should be prepared to do a very high grade of scientific work. But we must not be satisfied to give only technical training and conduct scientific research, essential as these functions are; we must also provide cultural courses of high quality. The sons and daughters of the average citizen of the state, particularly those from rural areas, have every reason to expect that this institution will be able to offer them the kind of training that will make them cultured and capable leaders in their communities.

I have nothing but optimism regarding the future of Utah State Agricultural College. It will, I believe, continue to be one of the outstanding educational institutions of the country. It has had a past of which it can well be proud. Its present activities are achieving most gratifying results, and its future as an outstanding institution of learning prepared to serve the young people of Utah seems to be well assured.

Utah's "White Gold"

(Continued From Page 9)

from the high water flows which result from a rapidly melting heavy snow cover.

The value of snow survey and streamflow forecasting is both material and spiritual. It saves labor and seeds, when to plant would be useless, because of no water to mature crops. It permits a maximum utilization of water supplies, and creates confidence instead of suspicion between users of water. It gives water commissioners courage to allot water

not yet in the reservoirs and makes it possible for the farmer to plan his crops to fit his water supply. It has enabled power companies to provide supplemental power in advance of its needs and municipalities to plan use restrictions or develop supplementary supplies before a water shortage actually occurs. In short, snow surveys and streamflow forecasts have reduced materially the uncertainty which has heretofore been attached to the State's greatest resource "White Gold"—It's Water Supply.

KNOW YOUR AGGIES

Forty per cent of Utah State's graduates are women who excel in the art of homemaking. Typical of them is **Karma Parkinson '19** of Franklin, Idaho.

Settling on a farm and raising future Aggies was the decision of Mrs. Parkinson early in married life. And this, she writes, is not a part-time job. It takes most of my time and energy.

Upon graduation from Utah State in 1919, Karma Parkinson married a soldier of World War I. He didn't ask me to change my name but to put "Mrs. B. R." in front of the one I already had, she relates.

The Parkinson's have six children, all loyal Aggies or future Aggies.

The eldest, **Richard C'43**, spent three years studying pre-medics at Utah State before enlisting in the army. He was a member of the Sigma Chi fraternity. Richard is still in the service, an officer in the 82nd airborne division at Fort Bragg, North Carolina. On January 6, 1947 he married **Marilyn White**, daughter of loyal Aggies, **Jim and Edna Hansen White '19**.

Blaine is destined to become an Aggie when he completes missionary work in the New England states. He's a future athlete for the Aggies, too. While a navy cadet he played on the famous Sea Hawk football team at Northfield, Minn., and also made a record on the obstacle course at Carroll College in Montana.

Polly spent two years at Utah State and was affiliated with the Chi Omega sorority and the Spurs. She is married and makes her home in California with her husband, **G. W. Beatty**, and infant daughter, **Cathy**.

Three younger children, all living



Karma Parkinson '19

at home, expect to attend Utah State when old enough. They are **Diane**, 16, a junior at Preston high school, **Nan**, 11, and **Donald** 7, both students at the Franklin grade school.

Besides her full-time job as homemaker, Mrs. Parkinson finds time to pursue her hobby, gardening. She has spent many hours beautifying her home with flowers and shrubs and has given many plants and shrubs to friends and neighbors to start their gardens.

Another hobby is candy making. Many boxes of chocolates go to friends and the family each year.

Mrs. Parkinson also finds time for church work and sings in the church choir. She is a past president of the M.I.A., a past president of the Franklin Parent-Teachers association, and a 4-H club helper.

Homemaking for Mrs. Parkinson is no small job!



Left to Right:

Donald

Nan

Diane

NEWS OF THE ARMED FORCES

Capt. Leroy M. Darley was recently discharged from chaplain duties with the U.S. army. He was met in Ogden, Ut., by his wife, Mrs. Kathleen Barton Darley and daughter, Margaret Ann.

Lt. Col. Joe E. Whitesides '36, assistant coach at Utah State, has been appointed to command the 204th field artillery battalion, Utah National Guard.

Jack E. Paul has enlisted in the regular army for a period of three years. He is a former member of the marine corps, as well as a student at USAC.

Maj. John McDaniel, USAF, is assistant professor of air science and tactics at Utah State.

Lt. Col. Harold E. Cotter is in charge of the new ROTC air unit at USAC.

Maj. A. Grant Holman '32 is on terminal leave from the U.S. army. He has recently spent five years in the army serving two years in New Guinea, the Philippines, and Japan.

The past six months have been spent with the special service section, headquarters, ninth army at San Francisco, Calif.

Lt. Harold B. Hall of the U. S. air corps has been discharged from active duty. He has been stationed with the Pacific overseas air material district headquarters in Alameda, Calif.

Maj. George E. McDonald '43 and **First Lt. Dean C. Fletcher '43** were decorated with the bronze star and the army commendation ribbon, respectively at ceremonies on the Utah State quadrangle recently. Presentations were made by Maj. Joseph R. Meacham and citations were read by Maj. John T. McDaniel, members of the college ROTC commandment's staff. Maj. McDonald, an employee of the Logan postoffice, received his award for work in the postal department while serving in Europe during the war. Lt. Fletcher's was in recognition of his services with an anti-aircraft battalion in the Pacific.

George D. Tanner, former USAC student, is now training at Thunderbird Field, Arizona, with the air corps. He was an air force pilot during the war with the rank of major.

Pvt. Everend L. Jacobson arrived in the Philippines recently. He enlisted January 1946 in the air forces and underwent basic training at Sheppard Field, Texas.

Lt. George S. Stains, USNR '39 is now stationed at the shipyard dispensary at the Pearl Harbor naval shipyard in Hawaii. He was married during the past year.

Maj. Ralph Ward, former instructor of ROTC at Utah State, is now serving with the U. S. army of occupation at Regensburg, Germany. His wife, the former Pearl Morison, Los Angeles, Calif., has gone to Germany to join him.

Myron I. Seamons is a newly commissioned second lieutenant following successful completion of the third officer candidate school at Seckenheim, Germany.

AGGIE MARRIAGES

Shirley Smith and Earl Pilkington were married September 23 in the Salt Lake LDS temple.

Afton Dance and Stuart P. Johnson were married November 8 in the Salt Lake LDS temple.

Gwendolyn Smith '43, and LaMont C. Hunt were married November 23 at the home of the groom's brother in Salt Lake City, Utah.

Josephine Holt and Harold Framberg were married November 2 at the home of the bride's parents.

Shirlee Allen and Major Joseph R. Meacham '41, were married November 13 in the Logan LDS Institute.

Georgia Elaine Thompson and Farrell Purcell were married recently at Salt Lake City, Utah.

Gwendolyn Mendenhall and Heber G. Mehr were married September 24 in the Salt Lake LDS temple.

Katherine Gneiting and Grange Goff were married recently in the Idaho Falls LDS temple.

Sarah Forsythe Van Arsdall and Dale Burton were married December 4 in the First Presbyterian church in Salt Lake City, Utah.

Barbara Staker and Matt Van Noy Roberts were married November 29 in the Idaho Falls LDS temple.

Maurine Randall '45 and Merritt Neibaur were married recently in the Idaho Falls LDS temple.

Donna Lorraine Thomas and Robert Maxwell Black '42, were married November 8 in the Idaho Falls LDS temple.

Gaye Marie Kudd and Jay B. Busby were married November 17 at the home of the bride's parents in Pocatello, Idaho.

Barbara Jeanne Peterson and Ralph C. Drake were married October 7 in Elko, Nevada.

Helen Morgan and Kex Forman were married December 1 in the Holy Rosary Catholic church in Idaho Falls, Idaho.

Lakue Bartnotomew '46, and Jack C. Chatelain were married November 29 in the Manti LDS temple.

Lorraine Manwaring C'49 and Marvin Wray were married November 8 in the Idaho Falls LDS temple.

Venna S. King and James H. Fraser were married November 19 at the home of the bride's parents in Vernal, Utah.

Mary Olsen and Wendell E. Stander were married November 1 in the Idaho Falls LDS temple.

Viona Peterson and Merlyn L. Speth were married November 1 in the Idaho Falls LDS temple.

Roma Poole '45, and Charles Aquilla Allen '43 were married November 22 in the Logan LDS temple.

Connie Jean Smith and Paul Thomas were married November 18 in the Salt Lake LDS temple.

Donna Ballard '42, and Arthur Carl Ham were married December 15 at the home of the bride in Benson, Utah.

Louise Jones and James Elwood Borg were married November 22 in the Manti LDS temple.

Virginia Torgerson and Mont B. Dunford were married recently at the home of the bride's mother at Salt Lake City, Utah.

Myrtle Larson and Dale Dreyer were married recently in Idaho Falls, Idaho.

Katherine Jenkins '46 and Preston B. Seeley were married recently at the home of the brides parents at Sugar City, Idaho.

Barbara Burgener and Robert H. Terry were married December 18 in the Logan LDS temple.

Madge Sorenson and Wayne Hymas were married December 12 in the Salt Lake LDS temple.

Carol Lynn Sargent '45, and Ray Haun Gleave were married November 2 in the St. George LDS temple.

Evelyn Webb '36N and Eldren L. Butler were married December 6 in the Salt Lake LDS temple.

Colleen Bash and Richard Barber were married September 28 at the home of the brides guardian at Pleasant Grove.

Kathryn Richards and John L. Sorenson were married November 22 in the Salt Lake LDS temple.

Phyllis Cook and Grant Gill Smith were

married December 30 in the Logan LDS temple.

Roma Reber '43, and Hugh D. Johnson were married December 28 at the home of the bride.

Mildred Fisher and Darrell Toone were married December 12 in the Logan LDS temple.

Karletta Tenny and E. L. Christensen were married January 4 in Vernal, Utah.

Emma Lou Gamble and Ralph J. Stagge were married December 27.

Donna Mae Powell and Leland J. Snoell were married December 19 in the Salt Lake LDS temple.

Anne Kennedy '45 and Wendell M. Roskelley were married recently in the Logan LDS temple.

Dorothy Anne Blackburn and Capt. Van A. Neiswender were married December 31 in Salt Lake City, Utah.

Janice Merryweather and George K. Prothero were married November 29 in the LDS institute at Cedar City, Utah.

Nanette Wood and Don E. Peterson were married December 22 at the home of the bride's parents.

Lellani McNicoll and Gary Bentley were married recently.

Susan Gwen Larsen and Ralph Charles Wilts were married recently in the Congregational church in Rutherford, New Jersey.

Mary Margaret Barry and Clyde Theurer Tarbet '42, were married November 3 in the Community church in Shanghai, China.

Katherine Kincaid and George W. Haskins '46, were married November 27 in the John Timothy Stone chapel, Fourth Presbyterian church, Chicago, Illinois.

Olive Nelson '45, and Byron Weidman were married December 20 in the Logan LDS temple.

Patricia Ann Jenkins and James Ernest Brown were married December 26 in the Memorial house in Salt Lake City, Utah.

Geraldine Olsen and Robert Nelson Roser were married August 29 in the Salt Lake LDS temple.

Ingrid Johnson and Lars Anderson were married December 20 in the Salt Lake LDS temple.

Charlene Johnsen and Reese K. Allen were married recently at the home of the bride's parents in Brigham City, Utah.

Marilyn White and Richard P. Parkinson were married January 6 in the Westwood Community church in Los Angeles, California.

Beth Houston and Boyd K. Luke were mar-

ried December 20 in the St. George LDS temple.

Ella Marie Nordquist and Leslie Ferdinand Nelson were married January 6 in the Salt Lake LDS temple.

Barbara Dunn and John W. Chambers were married December 27 at the home of the bride's parents in Logan, Utah.

Marie Cardon and George B. Hendricks were married December 28 in the chapel of Chapman Park hotel in Los Angeles, California.

Edna May Prigmore '40 and Dr. H. J. Milligan were married November 20 in the Salt Lake LDS temple.

Ruey Merrill and Don C. Forsgren were married October 30 in the Idaho Falls LDS temple.

Farris Faye Roundy and Douglass D. Crookston were married October 30 in the Salt Lake LDS temple.

LaRu Swenson and Willard Jay Grant were married August 28 in the Salt Lake LDS temple.

Lois Lee Bridges and Philip Hulme were married October 11 in the Idaho Falls LDS temple.

Jane Jennings Moss '43 and James Willard Hatch '37, were married October 26 at the bride's parents in Bountiful, Utah.

Louise Manning and LaMont Bennett '43, were married September 4 in the Salt Lake LDS temple.

Kolleen Schaub and Reid D. Pedersen were married September 10 in the Idaho Falls LDS temple.

Ruth Evanson and Lewis Harding C'47 were married September 23 in the Salt Lake LDS temple.

Oreta Rich '38, and Richard Berghout were married September 10 in the Idaho Falls LDS temple.

Maurine Boswell and Fred V. Gunn were married October 11 in the Salt Lake LDS temple.

Maxine Smith '46, and Max P. Ransom were married October 11 in the Idaho Falls LDS temple.

Madge Kirk and Capt Herbert George Stoenner were married October 16 at the home of the bride's brother in Salt Lake City, Utah.

Artia Marjorie Laurence and Jack Blanchard were married August 30 in the Salt Lake LDS temple.

Barbara Ann Budge '46 and Richard L. Howell '41, were married September 28 at

(Continued on Page 17)

FUTURE AGGIES



Jim Reveal, 5½ years, and Jon Reveal, 2½ years, sons of Arlene Hadfield Reveal '38 and Jack Reveal '37, 1117 14th Street, Santa Rosa, California.

Aggie Coed Responsible For Scholarship To Los Angeles Student

Some agriculturally-minded young men in the metropolitan Los Angeles, Calif., area will soon be awarded a scholarship at Utah State.

This was disclosed at a recent "Queen For A Day" radio broadcast when **Jenna Vee Lundahl C'47**, Utah State co-ed and contestant for the title of "Queen For A Day", declared that if she were elected to be enthroned she would wish that all the money represented in prizes awarded be used to establish a scholarship at the college.

Although Miss Lundahl was not selected as the "Queen For A Day", Jack Bailey, genial emcee of the popular radio program, assured the attractive co-ed that her wish would be granted. He told her the Los Angeles area would be searched for a suitable young man who desired agricultural training and that he would be sent to USAC with all expenses paid.

Miss Lundahl was one of forty co-eds who accompanied the Aggie football team to Fresno, Calif., for the Raisin Bowl game.

Editor's Note: For a picture of Jenna Vee Lundahl C'47 holding the Key to the City of Fresno, scene of the Raisin Bowl game, see page 10.

9 Entomology Graduates Meet In Richmond, Va. To Attend Convention

Nine USAC entomology graduates met together in Richmond, Va., on December 9-12 to attend the Entomological Society of America and American Association of Economic Entomology meetings. They include:

Dr. Clyde Furhiman Smith '35, association entomologist at the North Carolina Agricultural Experiment Station;

Prof. Charles J. Sorenson '14 of the USAC;

Dr. Melvin J. Janes '31, entomologist for Sochony-Vacuum Oil Co;

Dr. Ray L. Janes '32, extension entomologist for Michigan State College;

Dr. Frank Maughan '29 working for a commercial insecticide company;

Dr. Donald Ashdown '42 of Cornell University;

Dr. Merrill M. Darley '27 working for a commercial insecticide company;

L. Dean Christensen '28, assistant chief of the Division of Deciduous Fruit Investigations at Washington, D. C.; and

Jack Wright '41 working on malarial mosquito control for the San Francisco area under the Bureau of Health.

Life Memberships

Alumni who have taken out Life Membership in the Association since the publication of the November Quarterly.

- D. MERLIN ARCHIBALD '38**
Land Classification Specialist
U. S. Bureau of Reclamation
Riverton, Wyoming
- DON C. RIGBY '41**
186 West Center
Logan, Utah
- OTIS L. ORTON '37**
Route 2
Burley, Idaho
- LUCILLE RICE LEACH '44**
Box 52
Granger, Wyoming
- CLARENCE B. CANNON '39**
413 North Atlantic Avenue
Boise, Idaho
- THEODORE JOHN LASER C'49**
Campus
- FLORENCE CHILDS PACKARD '25**
433 East 1st South
Provo, Utah
- PAUL SCHERBEL C'41**
Big Piney, Wyoming
- LAWRENCE WHITNEY '43**
Tremonton, Utah
- DR. J. CLARE HAYWARD '33**
540 Blvd.
Logan, Utah

Visited On The Campus

Clarence Cannon '39 of Boise, Ida., visited on the campus recently and took out a life membership in the Alumni Association. He also visited with Prof. Arthur J. Morris in the college dairy. Mr. Cannon is manager of the Idaho Creamery in Boise.

Dr. Harold S. Peters, Atlantic flyway biologist of the U. S. Fish and Wildlife Service, conferred with Utah State officials on the campus in November. He talked with **Dr. J. Sedley Stanford** concerning ecto-parasites of birds; with **Dr. G. F. Knowlton** about bird foods; and with **Dr. George H. Kelker** about wildlife management. Dr. Peters' studies largely determine the shooting dates for migratory wildfowl in the United States.

William H. Bell '23, Utah State registrar, visited colleagues on the campus during his Christmas vacation from the University of Oregon in Eugene where he is spending a sabbatical leave pursuing advanced work in accounting.

Dr. and Mrs. William Wood '25 visited friends on the campus during December. Dr. Wood is a successful physician and surgeon practicing in Washington, D. C.

ALUMNI OBITUARIES

Mrs. Roma Chamberlain Fenton of St. George, Ut., died December 4 of sarcoma in a Salt Lake City hospital.

Kenneth J. Ericksen '40 died October 24 in Ely, Nevada, of an internal hemorrhage. Mrs. Ericksen is now residing in Collinston, Utah.

Minnie Peterson Isgreen '06, well-known in Salt Lake City's social and musical circles, died November 24 in a Salt Lake hospital after a sudden illness.

Dr. Leslie Thomas Booth died November 8 in the veterans hospital in Salt Lake City following a week's illness.

Samuel Roy Egbert, professor at USAC since 1920, died November 15 after an extended illness. He retired this year from teaching because of failing health. He taught shop, forge, and mathematics.

Brigham Pope Allen C'48 died November 14 in an ambulance enroute from Preston, Ida., to the veterans hospital in Salt Lake City. Cause of death has been officially described as infantile paralysis. He is survived by his wife **Roma Neilson Allen** of Preston.

Woodruff Hyrum Anderson '25 died October 28 at the family residence in Springville, Utah, of a heart ailment.

Mary Elmer of North Garfield, Utah, died December 12 in an Ogden hospital from injuries received when she was hit by a car while crossing a pedestrian lane in Ogden. Miss Elmer graduated from the School for the deaf and blind at Ogden and did post-graduate work at Utah State.

Marriner Willis Hendricks died December 13 in Preston, Ida., after a lingering illness.

Mrs. Arvilla Day Orton '29 died at the Iron county hospital December 13 after a lingering illness.

Richard H. Wells died January 6 at his residence in Pocatello, Ida., following an extended illness of a heart ailment. He has been called Pocatello's most widely known citizen being a past president of Rotary International and a consultant to the United Nation.

Thomas Daniels Jones C'05 died January 14 at his home in Pocatello, Idaho, of a heart attack.

AGGIE MARRIAGES

(Continued From Page 16)

the home of the bride's parents in Logan, Utah. **Kelma Shelton** and **Willard M. Smart** were married September 26 at the home of the groom's parents at Logan, Utah.

Beth Mortenson and **Clifford Miller** were married September 28 at Reno, Nevada.

Doris Felix and **Charles H. Robertson** were married September 18 in the Idaho Falls LDS temple.

Gloria Garvey and **Robert L. Earl** were married recently.

Jeanne L. Haycock and **William E. Nicholl** were married October 5 at the home of the bride's parents in Salt Lake City, Utah.

Martha Schwartz and **Bernard A. Harvard** were married September 1 in the Salt Lake LDS temple.

Jewell Hibbert and **Llewellyn W. Gillespie** were married recently at the home of the bride's parents at St. Anthony, Idaho.

Carmen Croft '42, and **Richard H. Lipphardt** were married November 3 at the home of the bride's parents at Cedar City, Utah.

AGGIES HERE AND THERE

Otis L. Orton '37 has been farming in Burley, Ida., since resigning his position with the Soil Conservation Services in 1943. He reports that he would enjoy a call from any friends from Utah State who travel through Burley. The phone number is 0191-J4.

Charlotte Henroid '44 is advertising director for the ZCMI store in Salt Lake City.

Clark W. Smith has been elected treasurer for Beaver county, Utah. Beaver county officials claim he is the youngest elected official in Utah.

Karl J. Magelby '36 has been appointed Utah-Idaho director for the Farmer's Home Administration.

George D. Jensen '40 is singing with the San Francisco Opera company and making his home in Daly City, Calif., with his wife, the former Francine Cottle, and young son, Allan George, born last April.

Floyd Rasmussen '36 has resigned his position with a business firm. He is making temporary headquarters in Logan.

The art of Delbert W. Smedley '31 was exhibited at the 12th annual art and music recital sponsored by the Logan Business and Professional Women. Mr. Smedley is now art instructor at the Logan senior high school.

Walter H. Posner '43 is teaching history at the Lamar, Colo., high school and freshman English at the junior college in Lamar.

Glen Blaser C'41, USAC veterans coordinator, has been appointed to the governor's state veterans' council.

Hugh B. Wilcox '36 has been named United Air Lines station manager at Twin Falls, Idaho., where the company inaugurated service Dec. 9.

Vern C. Bendixsen '41 has been accepted in the graduate school of business at Stanford University at Palo Alto, Calif. He expects to get his master's degree in March 1948.

Lt. E. C. Armstrong, 41, sanitary entomologist for the U. S. Public Health Service in Salt Lake City, is spending a month in special DDT insect control training program at the Atlanta, Ga., headquarters.

Merlin W. Allen '36 recently completed all requirements for a Ph.D. degree in nematology at the University of California in Berkeley. He now conducts research and directs the research of advanced students in this highly specialized field at the University.

Dr. Ray L. James '32, recently accepted the position of extension entomologist at Michigan State College. His brother, Dr. Melvin J. James '31, is research entomologist for Sochony-Vacuum Oil company with headquarters in New York City.

Dr. D. D. Jensen '35 is now conducting research on insect transmitters of virus diseases of plants, including research in celery mosaic which caused such serious crop losses in Utah during 1946.

Don C. Rigby '41 is a wheat farmer in Idaho but spends his winters in Logan. He is married to Daisy Whitney Rigby and they have one daughter, Lynne. He recently took out a life membership in the Alumni Association.

Paul Huefner '40, deputy collector instructor at the Salt Lake City Internal Revenue Service, was elected fourth vice-president of the National Association of employees of Collectors of Internal Revenue at the recent national convention of the group in Los Angeles, Calif.

Amir Khne and N. Ahmad, forestry experts from India conferred recently with the forestry department at Utah State. The Indian foresters are studying water and soil conservation methods in Utah with special emphasis on watershed work.

Lloyd M. Theurer '28, clerk-business manager of the Cache county school district was appointed superintendent of the district recently.

Dr. Reed Ward Hartvigsen announced the opening of his dental office in the Community building in Richmond, Utah, recently.

A new architectural firm, George Lyon & Son, has opened in the Kiesel building in Ogden, Utah, with George Lyon in charge, assisted by Sterling Lyon.

Ilean Waite has returned from Honolulu where she has been employed since April 1 of last year.

Myrtle D. Peterson of the extension service was named an ex-officio member of the executive committee for the Utah Farm Bureau.

Dr. and Mrs. Edgar B. Brossard '11, of Washington, D. C., were hosts at a dinner party recently in honor of Mrs. Brossard's sister, Mrs. Leona Cowie Olsen '12, of Salt Lake City. One of the guests was Mrs. Leona Ivins Cardon '11, roommate of Mrs. Olsen during college days at USAC.

Dr. W. P. Thomas '14, professor of agricultural economics at Utah State, has been named to deliver the annual faculty research lecture in March. He has been designated because of his significant work in marketing and farm price research carried out since he became head of the college department of agricultural economics in 1928, at which time the department was organized.

I. Donald Jerman '21, is construction engineer in charge of the \$24,000,000 Palisades reservoir project on the south fork of the Snake river in Idaho.

A county soldier memorial monument for Box Elder county will be built in Brigham City, Utah. Dr. LaVal Morris, landscape architect for USAC, is in charge.

Ira N. Hayward, associate professor of English at Utah State, represented the USAC at the meetings of the northwest association of secondary and high schools at Eugene, Oregon, in December.

A. Gordon Adams '30, has been appointed supervisor of agricultural training for the Veterans' Administration in the states of Colorado, Utah, New Mexico, and Wyoming. He has established his office in Denver, Colo.

After more than 45 years with the Union Pacific railroad and "without a black mark or a work discipline," W. George Jay, loyal and devoted servant of his company, retired in December.

Dr. Walter U. Fuhrman '25, member of the faculty, has recently been appointed chief of the economics section, project development section, Columbia basin project, with headquarters in Ephrata, Wash.

Dr. Louis L. Madsen, professor of animal husbandry at Utah State, has gained national recognition in being chosen one of the nine committee members of the national council on animal nutrition in Washington, D. C.

Ross Holland '46, Utah resident and recognized student of Latin American culture, recently held a seven-day series of lectures in Davis county's schools. The lectures, illustrated with special exhibits and pictures, were entitled "A Visit to the Latin American Countries."

Dr. Halbert Greaves, formerly with the Utah State speech department, recently directed his first production in the University of Utah's playbox. The play was Rose Franken's "Soldier's wife."

E. v. Cardon '09, recently transferred from the post of administrator of agricultural research to the position of special assistant to the chief, Bureau of Plant Industry, Soils and Agricultural Engineering with the U. S. Department of Agriculture.

R. G. Carlisle '39, has been appointed Continental Oil company's commission agent in Heber City, Utah.

Frank Jonas of the USAC political science department, was named permanent chairman of the governor's veterans advisory council recently.

Cloteel Riggs has been selected Centennial queen for South Cache county.

Miss Una Vermillion, manager of the USAC cafeteria, recently attended a dietitian's convention in Cincinnati, Ohio.

Margaret Monson Dowdle '32, recently announced the opening of her private school for boys and girls in Smithfield, Utah. Besides private piano and singing lessons, she is teaching individualized lessons for those children needing extra help in school subjects such as reading, arithmetic, and English.

Clair Nelson '39, has been chosen to the staff of the George Washington Law Review, a monthly periodical published by George Washington University. He is a senior at the law school and his selection to the review staff was made on the basis of scholarship and writing ability.

John E. Clay '42, has accepted an appoint-

ment to the office of alumni advisor to the Utah Alpha chapter of Sigma Phi Epsilon fraternity. Mr. Clay is special instructor in the fundamentals of accounting at Utah State.

Alva Retta Murray '40, is supervisor of vocal music in the Salinas, Calif., city schools. She recently took out a life membership in the USAC Alumni Association.

John I. Lauritzen '13 recently conducted work on an experiment for a research which cut losses of sugar in harvested sugar cane saving nearly half a million dollars worth of sugar annually in southern Louisiana. The research was begun by the division of sugar plant investigation in 1930 and was just finished.

Bernice Brown '40 is in charge of publicity for the George A. Fuller company, New York contractors, who are under contract to the War Assets Administration for the sale of war surplus in the Salt Lake City area. Miss Brown returned recently from Europe where she was a writer at seventh army headquarters in Heidelberg, Germany, and was awarded a citation and the army commendation ribbon for exceptionally meritorious performance and military duty.

Robert L. Shelby '40, has been appointed field assistant to be attached to the state office of the Veterans Administration. He will work on furthering the development of the jobs of veterans in Utah and encourage new enterprises in which they can participate.

Roma Berntson C'47, was given a verbal citation in the field of Portuguese from Monteiro Labato, author of "Cabelos Cupridos" (Long Hair) which she translated into English. The translation was made last winter in the second year Portuguese class of the college language department. "The original story gained rather than lost in Miss Berntson's translation," the author wrote.

Miles C. Romney '35 was recently elected vice chairman of the student executive committee of the advanced school, teachers college, Columbia University, where he is studying for a doctorate of philosophy.

Dr. George Knowlton, entomologist at Utah State, spoke recently to the Logan Garden club and discussed garden pests, how to protect shrubs, trees and other plants during the winter season.

Dr. Etneyn Greaves '20, dean of the school of home economics at Utah State, was elected one-year chairman of the home economics organization set up by the combined facilities of Brigham Young University, University of Utah and the USAC.

Robert Walter Parry '40, received a degree of doctor of philosophy from the University of Illinois at Urbana recently. At present he is teaching at Ann Arbor, Mich.

Prof. J. Cecil Sharp, refrigeration expert at USAC, returned recently from the Refrigeration Engineers' Society convention.

William D. Hurst '38, reported for duty as general staff assistant on the Cache National Forest in November.

Dr. Alan P. McFarlane has been appointed assistant resident physician in internal medicine at the New York hospital in New York City.

Jay Sandberg '36 is teaching at the aircraft school at Oakland Calif., airport. He is making his home in San Lorenzo, with his wife Vera Clark Sandberg '37.

Kenneth W. Hill '40, native of Lethbridge, Canada, recently was accorded recognition for his work as agronomist in charge of sugar beet research for the dominion experiment station in Lethbridge.

Dr. Francis C. Golfing of the foreign language faculty at Utah State, and Mrs. Golfing are both represented in the current Poetry Magazine. Dr. Golfing contributed three poems and Mrs. Golfing, writing under the pen name of Barbara Gibbs, has a review of Josephine Miles' book of poems.

Florence Adams C'44, of Provo, Ut., is presently attached to the special news service of the public relations office at General MacArthur's headquarters in Tokyo, Japan.

Thomas H. Morrell '20, is in charge of the farm loan interests of the Phoenix Mutual Life Insurance company in Montana, Washington and Idaho. He has been, with the company for 15 years.

1947-48 Alumni Council Nominees

Bertha Katherine Ebert Morrell '41, of the USAC faculty, left recently for Chicago where she resumed study at the University of Chicago in work leading to her master's degree. Mrs. Morrell has been doing research in nutrition at USAC.

Jack K. Rowler is with the California Department of Public Health in San Francisco. He is in charge of mosquito control and is supervisor in the division of environmental sanitation, serving with the state Department of Public Health. He is also conducting research as well as dealing with the field control of mosquitoes.

The November issue of the Journal of the American Society of Agronomy featured an article on the effect of irrigation on the quayule plant written by **D. C. Tingey '22**, associate professor of agronomy, and **Wilson H. Foote '42**, who is now working for his Ph.D. degree at the University of Minnesota. The work on this paper was done while Prof. Tingey was employed on the special rubber research project by the Bureau of Plant Industry, Soils, and Agricultural Engineering.

Astor McKay Ogden '41, graduated recently from the University of Oregon school of dentistry at Portland, Oregon, and has been granted a license to practice dentistry in both Washington and Oregon.

William B. Duce C'36, is working with the Western Air Lines in their accounting department on special assignment. He graduated in June 1946 from the University of Southern California law school.

Lucile Rice Leach '44, received her Wyoming high school life teaching certificate recently and is teaching in the Granger, Wyo., high school.

Charles A. Wall, former professor at USAC, was recently appointed coordinator of distributive education in the Ogden, Ut., city schools. His duties include direction of commercial training which includes classwork and on-the-job training conducted in cooperation with the Chamber of Commerce in stores and other business establishments.

Elden E. Jacobsen '41, has been added to the staff of the State Industrial school as school psychologist. He recently served as veterans counselor at the University of Iowa.

Harry H. Smith, a member of the USAC faculty for 16 years, 1927 to 1943, has been appointed director of Farm Market Relations for Colorado and Wyoming.

Boyd A. Ivory '38, poultry specialist, has become field service man for the Poehlmann Hatchery in Salt Lake City and vicinity, servicing poultry men in Utah, Idaho, Colorado, and Nebraska.

Grant M. Redford '37, is a professor of English at the University of Washington in Seattle.

C. Joyce Adney Reynolds '43, married in the Logan Presbyterian church March 7, 1946 to Adrien F. Reynolds of New Orleans, is a member of the University of Utah faculty in the child development department. Her husband is enrolled in the school of engineering at the university.

Aaron F. Bracken '14, extension agronomist and professor of agronomy at Utah State, accepted a position as agricultural advisor to the Syrian government. He left for Syria in December accompanied by his wife and daughter, **Alice Bracken C'49**.

Leo Johnson '39, has been appointed social studies instructor at the Logan senior high school.

Jack Cherrington '37, has been appointed instructor at the Franklin county LDS seminary.

Afton Adams Day '39N, was recently elected Davis county recorder. She resides in Layton, Ut., with her four-year-old son, Dennis. Her late husband, Howard Day, was killed in Germany in World War II.

Professor H. Reuben Reynolds, art instructor at USAC, exhibited his photography at the Logan senior high school library in December. The exhibit covered landscapes, architectural studies, portraits, several commercial shots, and a number of USAC stage productions.

Gene Phillips '46, is physical education instructor and girls' adviser for the Mount Fort high school. She is also directing the pep club activities.

The painting of the month selected by the Ogden Palette club in December was a water-

Frank O. Fannesbeck . . . Cont.

(Continued From Page 2)

the atomic bomb where he worked during the war years and is now employed by the Utah State Road Commission in Salt Lake City. While a student at Utah State he was editor of Student Life, president of the Utah Foresters, and a member of Sigma Nu, Alpha Sigma Nu, Blue Key, and Pi Delta Epsilon. After graduation he spent several years in the initial development of the Tennessee Valley Authority and worked with the U. S. Forest Service and the Park Service. He served as president of the Utah Foresters Alumni from 1941 to 1946. He married **LaRae Skeen**, a former Aggie, and they reside in Salt Lake City with their four children, three girls and one boy. He was recently elected a director of the Salt Lake Alumni chapter.

Lt. Col. Elmer Ward, QMC '35 handles the important and tremendous task of being Director, Storage Division, Quartermaster Supply Section; also Director, Utah Repair Sub-Depot, at Utah General Depot. He played football for Utah State for three years and made a name for himself in the athletic field when he was chosen All-American center on the athletic field when he was chosen All-American center on the National News Selection, and also was named to the All-Conference Big Seven circuit. Upon graduation, professional football called him and he played for the Detroit Lions in 1935, the year of the World Championship, and also in 1936. He was called to active duty with the army in 1940 as a First Lieutenant, Quartermaster Corps. Besides duty at Utah General Depot, he has served in important posts as senior instructor at ASF Storage School, Camp Lee, Va. Then in Washington, D.C., he served as Chief, Storage and Warehouse Management Section for 2 years, being awarded the Legion of Merit for his work in Washington. For outstanding service at Utah ASF Depot in 1942-43, he has received the Commendation Award.

Guy N. Cardon '40 is employed by the Bluebird Candy Company in Logan as secretary-treasurer and assistant manager. He is active in the Logan Junior Chamber of Commerce, the Rotary club, and the Sigma Chi Alumni chapter. He is a director of the Logan Chamber of Commerce and a Past National Director U. S. Junior Chamber of Commerce. He is also a director of Utah State Restaurant Association. Upon graduation from

Utah State in 1940 he was called to active duty with the United States army and received his discharge in December, 1941. While a student he was active in ROTC, was basketball manager, and a member of the swimming team. Mrs. Cardon is the former **Joyce Johnson C'34** and they have one daughter, Alice Lynn, a future Aggie student 1961 to 1965.

Erwin "Scotty" Clement is employed by the Veterans Administration in Twin Falls, Idaho. He is a former Alumni Secretary holding the position from 1937 when he graduated in 1941 when he entered the army as a 1st Lt., CAC, where he held the position of public relations officer and assistant intelligence officer for Camp Hahn, California. He shipped over-seas in November of 1942 and served until his discharge, January 2, 1946, with the rank of Lt. Col, CAC. He was awarded campaign stars for the Tunisia, Sicily, Italy (Rome-Arno), Southern France, Central Europe, and the Rhineland campaigns. He was awarded the Bronze Star and the French Croix De Guerre, order of Division by French Army "B", for services with the French. During his four years at college, he participated widely in student affairs, was active in school social, scholastic and dramatic activities. He was a member of Scabbard and Blade, an ROTC officer, a member of Phi Kappa Iota, and played prominent roles in several Little Theater productions. Mrs. Clement is the former **Leona Bunder-son '38**. They have one son, Michael.

Raymond "Butch" Kimball '41 is a research analyst of the Utah Foundation, a non-profit tax research corporation in Salt Lake City. He graduated from Utah State with a degree in commerce. He was active in debating and school politics and upon graduation was awarded a fellowship in the department of government management at the University of Denver. He left Denver when called to active duty as a supply officer with the U. S. naval reserve. His war duty included 14 months aboard a "jeep" carrier and he returned to inactive duty with the rank of Lieutenant in December 1945. He completed the requirements for a master's degree at the University of Denver in April 1945 and accepted his present position with the Utah Foundation. He is married to **Andrus Hansen C'45** and they have one daughter, Kristine, born Thanksgiving Day 1946, just three hours after the AC trampled Utah in the traditional football clash.

color entitled "Old White Pine" by **Clara K. Smith**. She studied art at USAC and is well known over the state for her water-colors.

Rep. Ralph E. Robson is a member of the 1947 Utah legislature.

Rachael Anderson Scherbel '41, was married last June to Paul N. Scherbel and they live in Big Piney, Wyoming, where he is

with the Soil Conservation Service. Mrs. Scherbel is teaching in the high school there.

D. Merlin Archibald '38, is employed by the U. S. Bureau of Reclamation with headquarters at Billings, Montana. He is temporarily stationed at Riverton, Wyoming, as assistant to the chief of the land classification section and is in charge of all soils work on established irrigation projects under the bureau operations.

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