



STUDENT BODY MEETING NEXT FRIDAY

St. Mary's Game Saturday

The Second University Game To Be Played Here

Since the defeat at the hands of the Santa Clara Football team last week there has been some strenuous work done by the squad and some radical changes have developed. After a couple days of easy workouts on Monday and Tuesday, a decided change for the best was noticed in practice; more "pip" was shown; things went with much more dash and snap than has hitherto been noticed. It is clear that the fighting spirit of the squad has been aroused, that the stage-fright of the first game has passed, and that from now on the "winning spirit" will give the team the confidence to win.

Changes of positions throughout have been noticed in the lineup in practice. Backs have been moved up into the scrum and forwards back into the back field. Charles has been playing fullback and Fletcher has been brought up to center three-quarter position, in place of Harriman who has been

playing a good game in the back. Delahide, a former St. Mary's forward, has been showing up well at second five-eighths. Harbaugh has been playing a snappy game at first five. The second team has been showing lots of snap and there are a number of men on it who are making close fights for first team positions.

On next Saturday the game with St. Mary's College comes off. From the showing made this year they have a strong team and the game should be a hard fought one from start to finish.

In the last few minutes of the game last week our men showed they had the right stuff in them; that they could fight. In as much as it was the first game of the season, and further that as eleven of the men who played on the team had never played the game before this year, we feel that the future outlook is most bright and that we will profit more by the loss of the first game than if we had won it.

The Old Game

The new version of American football as it is being played on the Eastern gridirons this fall seems to be improving as it approaches a closer likeness to the Rugby game. The new game shows a greater opportunity for open play and large scores. With the perfection of the forward pass, chances for consistent ground gaining are being made possible. That a heavy line will be of as much importance this year as previously was shown in a recent game by Yale's gains through Wesleyan's center. This game also demonstrated that a fast light team, with the use of the forward pass, will have a better chance of gaining ground against a heavier team than heretofore. The danger of injury also seems to have been lessened, and the allowing of an injured player to return at the opening of a new quarter will permit a team to maintain its initial strength throughout the game.

Walter Camp, sometimes known as the "Father of American Football," has been in the West for a few weeks past, watching the Rugby games as played by the Western colleges, with the view of getting some new points for this reconstructed game.

As each year goes by the grand old game of American football is being changed more and more until now it is hardly to be recognized. The modification made each year tend more and more towards the Rugby game, and as things are going now, it seems only a question of time before it will give way entirely to the English game. The fact that Rugby has gained a great and increasing foothold in the West, together with the increasing demand for modification of the old game by the Eastern authorities, point strongly toward this.

Notice

Executive Committee meeting Monday, October 3. Important business to be transacted.

"Our New Minister"

The country folks of Hard-scrabble, N. H. will come to the Majestic Theatre on Tuesday, October 4, when "Our New Minister" makes its too infrequent visit to Reno. Its a tax on our memory to think of a play that has delighted and held the popular fancy that this remarkable comedy has for the past ten consecutive years during which time it has amused millions of people, and is welcomed back with increased patronage on each return engagement. The life of a really good play is about three years, and when we stop to consider that it is over ten seasons ago since the public first saw the town constable of Hard-scrabble, N. H., and the rest of the interesting folks of that struggling, gossiping community, we wonder wherein lies the charm? Well, Reno will welcome "Our New Minister" with open arms and capacity houses, and carry away the pictures of that quaint country store, the railroad station, with its one train a day each way, and its general air of rustic simplicity, and imagine that we have visited this strange New Hampshire town in reality, rather than having witnessed a play.

Special popular prices will prevail for the engagement of "Our New Minister" at the Majestic, 25c, 50c, 75c and \$1.00. Seats now on sale at box office.

General Assembly

At the General Assembly on last Friday it almost looked as though the persistent calls for repeated encores from the band would take out the whole period, and hence cut out the intended lecture of Professor Young. Every one was willing to hear more music except perhaps Dean Lewers and Professor Young. When the hand-clapping had ceased Prof. Young was introduced by Dean Lewers, and the students enjoyed a very interesting lecture on Mr. Young's experiences in the German coal mines.

Science Club Holds Meeting

Mr. S. P. Ferguson Delivers Address to the Association

At a meeting of the Faculty Club last Tuesday Mr. S. P. Ferguson addressed the members upon "The Influence of Mountains Upon Meteorological Phenomena," the substance of which follows:

Until recently, with the exception of occasional records obtained by means of balloons, the greater part of our information concerning the upper atmosphere was obtained from observations on mountains; and upon the assumption that these data represented true atmospheric conditions, they have been made the basis of important theories concerning the physics of the atmosphere. The influence of mountain systems upon the permanent phenomena of the atmosphere which we term climate has been well understood for many years, but only recently has it been demonstrated that the irregular and non-periodic phenomena which are known as weather, are modified to an appreciable degree.

In 1898, shortly after the exploration of the air by means of kites was begun at Blue Hill Observatory, Clayton found that the diurnal variation of temperature, existing on all mountains, disappeared in the free atmosphere at a height of 1000 metres. Before this time it had been noted that clouds passing near the summit of Blue Hill apparently moved more slowly than the wind recorded at the observatory, but direct instrumental proof of this was not obtained until 1905.

The value of the kite in meteorology is now universally recognized; and at twenty-five stations in different countries, frequent ascensions are made, usually on the same dates, for the purpose of determining the vertical changes of temperature, moisture and wind-velocity. The heights of the kites can be controlled within narrow limits, the exposure of the instruments carried by them is almost perfect, and the cost of experimenting is smaller than that of balloons. Two men, with an equipment costing less than \$200 can easily obtain data at heights of 2000 to 3000 metres.

The study of the influence of mountains upon atmospheric phenomena was begun by the writer in 1905. Self-recording instruments were placed on Mount

Washington, New Hampshire, 1916 metres above sea-level, and in a valley extending westward from the mountain, 20 kilometres distant from the summit and at a height of 420 metres. Similar instruments were attached to kites flown from this valley and maintained as long as possible at the level of the summit. This work was conducted at favorable opportunities during the summer seasons of 1905, 1906 and 1907.

The results of the work show that the temperature on mountains is generally lower than that of the free atmosphere at the same level. The difference is greatest at night and least during the day, the maxima and minima corresponding inversely to the diurnal maximum and minimum of temperature on the mountain. There are two causes of this phenomenon, the mechanical cooling of the air at it is driven upward over the mountain, and the cooling due to inversions. The first of these causes prevails when the velocity of the wind is above normal and the second is most pronounced during calms, although inversions occur so frequently that the effect is sometimes a composite.

On classifying the temperature data according to the prevailing weather conditions it appears that the temperature on the mountain tends to be higher than that of the free atmosphere in front of or during the passage of a cyclonic or general storm, and lower in the rear of a cyclone.

No permanent differences between the humidity recorded on the mountain and in the free atmosphere were detected, although on days when cloud-caps formed on the mountain the oscillations of humidity on the summit were very rapid and of considerable amplitude.

The velocity of the wind is always greater on the mountain than in the free atmosphere. In but one instance was the difference smaller than 10 per cent and in many cases the velocity was nearly 50 per cent greater on the mountain than in the free atmosphere.

It is expected that this work will be repeated at Reno and Mount Rose during the present year, the necessary equipment being nearly ready. The kite ascensions will be conducted near the University.

Department of Military Science and Tactics

The following schedule of drills is announced for the week beginning October 3:

Monday—Company drill close order. Rifle practice. Khaki uniform.

Tuesday—Same.

Wednesday—Battalion parade. Blue uniform.

Thursday—Same for Monday.

The khaki uniform will be worn complete. Blouse, breeches, leggings, campaign hat and hat cord. Those cadets who have not been able to obtain tan shoes will wear black shoes until they can do so.

By order of the Commandant.

Sizzling Politics

Politics are rife on the hill now as the Republicans and Democrats have each organized their respective adherents into societies to sweep all opposition before them. The feeling is most intense among the various students over their parties, but as yet no blood has been shed, and brothers still love each other. Each party is trying to outshine the other in noise and other activities, but as yet they are even.

Song Practice

Song practice Tuesday at 7:00 o'clock in room 6, Morrill Hall. Everybody come.

The Theta Jinks a Success

The Theta Epsilons Give a Most Successful Circus

"Oh, I went to the animals fair, And the birds and beasts were there; The monkey he got drunk and straddled the elephant's trunk, The elephant sneezed and came down on his knees, And what became of the Monk, a Monk, etc."

Thus it went last Friday night from 8 to 11 in the evening. Yes, they had the elephant with his big ears, and probing nose; the monk with his grimaces and curling tail, as well as every other animal of human kind. Upon their entrance to the hall all the girls had to see the side shows, the big show, the pink lemonade, the peanuts, etc. You could tell that it was a real circus by the floor the following morning.

The boys ought to have seen the side shows, because they were original, and had the only living freaks under the sun. Barnum & Bailey are back numbers in the circus line now, as they have no "Dirty Dora," the mud eater. Yes, she really eats mud for her living and was bred and raised on it from infancy. It was only at the greatest trouble and expense that the "Jinks Committee" obtained this rare freak. Also, Bosco was there with his snakes. Bosco ate all comers, both big and small; anything from macaroni to sausages; and never blinked an eye at the doughnuts. Bosco swallowed everything "hole."

But the great curios were the "Fat Lady" and "The Only Bearded Lady on Earth." The fat lady measured several feet in circumference, and the fat was guaranteed to be of a real and original composition. She weighed several pounds, so that no scales could weigh her because of her bulk. The "Bearded Lady" had on a real hairy, raty beard, and this was also genuine hair. It flowed down from her face for

inches, and had to be held up with ropes to help it from dragging on the floor. Ringling Brothers' Circus has entered into negotiations for this break of freaks as fine stands without a peer.

All went in to see Alice because above a certain door was "Have you seen Alice," and of course all had to see her. All had to see the "Trained Bees," guaranteed not to sting. They are a very choice collection of this breed of circus animal.

The ring-master, bear-trainer and jockey were there in full attire. Nothing marred the ring performances, as the "circus" had obtained a few artists on the trapezes, and rings for the evening. All was home talent, too. The circus band deserves special mention as well that could be heard during their selections were intermittent puffs through some kind of instruments and light taps on a drum. The result was fine musically.

Before the show was over the "Yami Yami" girls performed the famous oriental dances and their dances are said to be most graceful and that the parties are to enter the Orpheum circuit next year with this act.

The "macaroni eater" was there with his push-cart full of pink pop-corn balls, peanuts and sandwiches and pink punch was served in "schooners" and more than one schooner was allowed to a person.

The lady faculty members came to the "Jinks" in a body, and enjoyed themselves as much as any.

The "Jinks" was certainly the greatest success that has taken place on the hill for some time. All the ladies had the time of the year, and said that they are going to have another as soon as possible.

The girls all desire to thank the boys as a whole for their absence from the gym on that evening.

Preps "There"

When anyone says that the school spirit is dead, they need only to reflect and remember that it was only last Saturday night that there was a basketball game and dance given in the gym for the benefit of the Athletic Fund. The basketball game was taken up by the preps and a picked team and it is due to this that the success of the evening was as great as it was. The doorkeeper took in thirty dollars, and after paying the expenses of the evening the teams turned over twenty-three dollars and a half to the Student Body treasurer. This action on the part of the preps is to be highly commended as they pay into the Associated Students so much and get so little. If more had this spirit there would never be any lack of funds to carry out athletic programs. Hereafter when anything comes up to help athletics in the school think of this action of the preps and get busy.

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Campbell, Ex-'13 Breaks Records

E. P. Campbell, Ex-'13, better known as "Oilly," has distinguished himself among Pacific coast athletes by breaking the individual track and field record for all events. The former record was held by a Stanford man with 384 points. Campbell broke this record with 399 points.

This meet required that the contestant be entered in every meet on field and track. Campbell won several first places and a great many seconds, while most of the nearest contestants were winners in one or two events and had very little show in any other events.

The second place was taken by a Berkeley man who made 368 points.

Campbell was a member of the U. N. track in May, 1910. The team entered in the Triangular meet between U. C., Stanford, and U. N.

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Student Body meeting Friday.

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VOL. XVIII RENO, NEVADA, OCTOBER 3, 1910 No. 6

Editorial

Thus far this year, the students as a whole have been indifferent in their attendance to student body meetings. This is a condition that should not exist, as all ought to attend and take the greatest interest in their own government. It is no more than fair that those who do not attend these meetings should keep still if the members attending should make regulations contrary to the desires of those absent.

This year it is almost imperative that all should attend the student body meetings so as to have certain important matters settled,

which are to come up before the year is over. These matters are of vital interest not only to the students now but to the students of the future.

All should remember that all the actions taken by the Associated Students will effect the student life for several years, and to obtain the most just and beneficial actions will require the voice of every student in the matter. It is hoped that the students will show up at the coming meeting Friday in greater numbers than heretofore.

The "Aggie" Club

The "Aggies" held their meeting last week at the new home of Prof. and Mrs. Knight. This was a live one as usual and the members entered into the program of the evening with enthusiasm. Plans were discussed and formulated for the year, and a very fine program was rendered.

Mr. L. B. Patrick, '13, spoke on "Irrigation in Nevada." It is said that his talk was something on the order of the "pig that rambled and rambled until the butcher cut him down." Patrick believes in irrigation.

Prof. Knight addressed the club on the objects of its organization and what was intended to be done this year.

The evening was made the more enjoyable by the presence of Mr. W. D. Alexander, ex-president of the club. He spoke of his experiences as a practical, theoretical farmer, and stated that the occupation is exceptionally fine for a dark complexion, but complains that the work calouses his hands. All appreciated the trend of his remarks, which were self evident truths.

Refreshments were served of the sort that "Aggies" like, and after giving their yell:

Cow kicks, hay ricks, U. of N. Agries disbanded. All declared that they would rather have a meeting at Prof. Knight's home than a wine supper.

Freshman's definition of sensitiveness of balance: "The sensitiveness of an analytical balance is the variation of the balance due to the surrounding atmosphere, and sometimes partly due to the nature of matter which is being weighed."

Cupid—Say, kid, can I go thru this gate to the river?

Little kid—Maybe, a load of hay went through there this morning.

A Freshman hesitates on the word "connoisseur."

Prof.—What would you call a man that pretends to know everything?

Freshman answers—A professor.

The Library

The late arrivals at the library are Brown's Ethics of George Eliot's Works, Curtis' Elements of Graphics, Story of Truston and Is-eult translated by Weston, American Historical Association's report for 1908; Ferguson's History of Architecture, Letourneau's Evolution of Marriage, Blyth's Manual of public health, Smith's Self Instructor in Navigation, Colombey's Journee des Madrigaux, Geoffroy's Madame de Maintenon, Besant's French Humorists, Castelar's Suspiro del Moro, Rother's Romans du Denard, Picot's Bibliographic Cornelienne, Main-dron's Marionettes et Guignols, Soulier's Recherches sur Moliere, Genin's Maistre Pierre Patelin, Geoffroy Chateau's Farce de Maistre Pierre Patelin, Foerster's Romanische Bibliothek, Poulton's Colors of Animals, Gaout's Moses with Hand-Lens and Microscope, Grein's Dramatic Criticisms, Saintsbury's History of English Phosody, Transactions of the of the Highland and Agricultural Society of Scotland, Fifth series, Vol. 6; Davis' Hygiene for Girls, Worldsworth's Tour in Scotland in 1803, Goldschmidt's Projection and Graphische Krystallberechnung, Lyman's History of Oregon, Siegfried's Race Question in Canada, Grove's Dictionary of Music.

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The Truckee-Carson Fair

The Truckee-Carson Fair which was held at Fallon last week was a great success in every respect. With the exception of the University exhibit all the farm produce and livestock exhibited came entirely from the Truckee-Carson Project. The University had an attractive display of grains, millets, sorghums, and flax, which happened to be the only exhibit of its kind at the fair. This exhibit was raised at the University Experimental Farm and represents the results achieved by the Department of Agronomy, under the direction of Professor Knight, during the past year. The other exhibits in the pavilion consisted largely of garden truck and fruits. Some very fine pumpkins and cantaloupes grown in the vicinity of Fallon were shown. The United States Experimental Farm located south of Fallon, had a very fine fruit and vegetable exhibit.

The east side of the pavilion was entirely given over to fancy work and household exhibits which goes to show that the ladies of Fallon are well abreast with the times.

The livestock exhibit was housed in a large stable and corral near the pavilion. This exhibit consisted of horses, cattle, sheep, hogs and poultry. The University showed its prize-winning livestock, consisting of pure bred dairy cattle, shee and hops. This stock however did not enter into competition with that of the other exhibits when the prizes were awarded.

During the afternoons the time was given over to horse races, bucking contests, roping exhibitions and other thrilling features of western life. These contests were held on a large alkali flat east of town at a considerable dis-

tance from the exhibits.

The fair was of great benefit to the University, in that it afforded an excellent opportunity to advertise our institution to prospective students. The University representative took with him about 75 copies of the "Sagebrush," which were distributed among the High school students of Fallon, and others interested. From all indications we can expect a large attendance from Churchill County at the University next year.

Personals

Prof. J. C. Jones has a sister visiting him at present.

Miss Mary Young, ex-high, spent several days on the campus last week.

Prof. True has returned from Denver, where he has been for the last few days.

All parties having signed the pledge to keep perfectly "mum" in the U. N. Library may come in. Signed, Com. on Quietness.

In the last issue of this paper we omitted a name from the list of the girls pledged to the Theta Epsilon sorority: viz., Miss Lena Hans '13.

All will be glad to know that the most cunning baby has arrived at the home of Mrs. Mabel Hughes, nee Blakeslee '04. We all know that the family is the happiest ever.

LOOK! LISTEN!

THREE DOLLARS for the best yell, and TWO DOLLARS for the second best yell, submitted. All yells should be handed to one of the following: Morris Anderson, R. M. Seaton and W. Settemeyer. Everyone in on the LARGE REWARD for suitable selections.

A COURSE IN ECONOMY Every Student Should Take

CLASS MEETS—Every day but Sunday at "The Big Store."

HOURS—8 a. m. to 6. m.—Saturdays, 8 a. m. to 9:30 p. m.

DAILY SUBJECT—How to obtain many of the necessities of the Fall term at a minimum expense; how to make the "monthly allowance" go farthest and do the most good.

INSTRUCTOR—Gray, Reid, Wright Co.'s advertisements in the daily papers.

COST OF COURSE—Absolutely nothing.

Gray Reid Wright, Co

Faculty Science Association

There will be a meeting of the Faculty Science Association on Monday, October 3, 1910 at 4:40 p. m. in the lecture room on the first floor of the Mackay Mining building. The following address will be presented: "Parasitic Enemies of Insect Pests, Illustrated with Living Material."—Professor S. B. Doten.

The boys are wondering what the girls were doing with their football suits last Friday evening?

Notice

The Faculty Science Club have changed the time of their meeting from 11 o'clock Monday to 4:40 Tuesdays. All are requested to observe this change and it is hoped that as many as can will attend.

Social Saturday Night

The third dance to be given by the U. of N. Social Club is to take place Saturday night, October 8. All come that have tickets, and if one has none, let him come and buy one.

Free for your room—a sorority girl photo. Call for one. Red Cross Drug Co.



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PREP. ATHLETICS

Basket ball practice has now commenced in earnest, and everyting points forward to a most successful season.

From 15 to 20 men show up daily for practice and from this number some fine material is being worked out.

Maclelan, as forward, is beginning to show form as well as speed, Randall and Painter, as guards are playing good ball, Cottrell, the invincible center, is developing into a fine form, and Sheehy plays his ever excellent game.

Word was received from Elko the other day asking for a game in the later part of October. Definite arrangement has not yet been made as Manager Painter is anxious to obtain a trip to Elko before signing papers.

The manager incidentally has been very busy lately writing to various teams in Nevada and California and many games are expected before the season closes.

A meeting of Prep boys was held Friday at which they unanimously voted to develop a football team to play Reno High School.

Come on now, Preps!

The game will probably be played the latter part of October. Reno High school has a strong fast team and an interesting game is expected.

PREP REMARKS

Prof. Thompson has a new bell.

Just to remind Prof. Otis that just is pronounced just and not "jist."

Silver Threads Among the Gold since Miss Riegelhuth has been obliged to tend the new babies in a study period. We all feel sorry for you, Miss Riegelhuth. We are all getting gray headed.

Miss Berry remains as calm as ever under the burden.

Shutter made a resolution last week—nothing new for him.

Some people may think "Tust's" hair is red—but it ain't.

Prof. Thompson has a fighting rooster. Will match it against anything that walks on, two, four or six legs.

No, Prof. Otis is not a "queen-er." Still you know he just graduated from college and being young and good looking he might, well er, —?

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IRRIGATION IN NEVADA

Of all the States in this nation needing irrigation Nevada needs it most, for Nevada is the desert state of this country. Situated as she is in the great basin; cut off from her moisture supply on the west by the Sierra Nevada range and on the east by the Wasatch range, Nevada's portion of moisture is very slight indeed. As practically all of the state lies in the great basin, her rivers have no inlet to the sea, so that Nevada is geographically isolated both from the surrounding states and from the sea.

Because of the peculiar geographical and physical conditions, farming without irrigation is impossible, in the state. In other states where irrigation is practiced dry farming has been found possible, but it will never be practical in Nevada. Those states in which it is practiced depend upon a certain amount of rainfall and an impervious subsoil. These two conditions are both lacking to a greater or less extent in any part of the state. Thus we see that since dry farming is impractical the farmers of the state must necessarily practice irrigation. When irrigation is practical all other conditions are favorable to successful farming. The soil, on account of its volcanic formation, is so rich in those salts, which are the chief constituents of plant foods, that the crops grow upon this soil, do surprisingly well.

The first people to realize the necessity of irrigation in Nevada and to practice it were the Cliff Dwellers. These people were by no means confined to Nevada; in fact they were scattered throughout the southwest and only a small part of their number ever lived in what is now Nevada. Those who did live in the state were confined chiefly to the southeastern portion, that is the region around the Colorado river and its tributaries. Here remains are found of their primitive irrigating systems, which by the way bear a striking resemblance of the systems in use in Egypt over four thousand years ago. The water was raised from one level or terrace to another by means of buckets balanced on weighted poles. This was a very slow and tedious method of irrigating and could only be used when the soil was very rich and when intensive farming was practiced.

The next record we have of irrigation in Nevada was when the first white men entered this country about seventy-five years ago and found the Piute Indians practicing irrigation on the Walker river. The records of these explorers are not clear as to the exact method of irrigation used by these Indians at that time but it is presumed that they used the gravity system, which in its simplest form is merely the throwing of a brush dam across the river and then tapping the supply of water thus backed up by a ditch above the dam.

The Mormons, who settled in the upper Carson Valley in 1850, near where Genoa now stands, were the first white men to irrigate in Nevada. The gravity system which they used is the only one in use in the State today. These Mormons at first farmed only on a small scale, since there was no market for their products. The discovery of the Comstock brought about a great change, because a ready market for farm produce was formed, and the amount of land brought under cultivation doubled and trebled within the next few years. Many irrigation ditches were built and by 1870 practically all of the land in the Carson Valley between Genoa and Carson was brought under cultivation.

The discovery of many paying mines during the late sixties along the Humboldt Valley indirectly resulted in the cultivation of a large part of that valley. Projects were launched for the irrigation of the 150,000 acres of land in the Paradise Valley, a tributary of the

Humboldt. These valleys were much slower in developing than was the Carson however, chiefly because their markets never equalled the great Virginia City market, which was the mainstay of the Carson Valley for so many years.

The discovery of the Comstock Lode had much to do with the development of the Truckee Valley. Irrigation began in 1864, when the Cochrane and Longley ditch was built at a cost of \$6000. The next ditch built was the Lake ditch, which cost in the neighborhood of \$35,000, and irrigated the land south of Reno. Soon after this the Orr Ditch was built on the north side of the river and irrigated the land northeast of Reno. The Steamboat Irrigating Canal, which cost over \$50,000 is the most expensive ditch in the valley, and extends from Verdi to Steamboat Springs. The land southeast of Reno and in the Steamboat Valley is irrigated by this ditch—all of these ditches were built during the boom days of Virginia when that city furnished a ready market for all the farm produce available.

In the early seventies, at about the same time that ditches were being built on the upper Truckee for the purpose of irrigating the Indian ranches on the Pyramid Lake Reservation. This was the first government ditch built in the state and was one of the largest ditches that had been built up to that time. Besides being used for irrigation this ditch also furnished the power to run a large saw mill, which was situated near its lower end.

By far the greatest irrigation project in Nevada at the present time is the Truckee-Carson Project. This is one of the largest of the government projects and was one of the first to be started. When

Continued on Page Four

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IRRIGATION IN NEVADA

Continued from Page Three

entirely completed it will bring under irrigation a total of approximately 375,000 acres of land. The project in its entirety involves the building of storage dams, large reservoirs, and many main ditches, with their numerous subditches and laterals. It is estimated that the cost of this great project will be somewhere in the neighborhood of \$9,000,000 although it may be considerably higher.

To get a proper idea of the land to be irrigated under this project it will be necessary to refer back to geological times when the greater part of western and northern Nevada was covered by a large lake. This lake, known to geologists as Lahontan, extended from what is now Walker Lake in the south, to the Black Rock Mountains in the north. Owing to some great climatic changes in the mountains of California which affected the supply of moisture, the water supply began to fail and Lake Lahontan began to rapidly decrease in size by evaporation. At last all that was left of this great lake was four much smaller lakes in what had formerly been the deepest parts. These lakes were Pyramid, Winnemucca, Carson and Walker.

The land left dry by the evaporation of this lake became what is now the typical Nevada desert. This land is usually very level and easy to irrigate providing the water is available. In the north no water is to be had but in the central part where most of the best land lies, both the Truckee and Carson are near at hand. To direct these rivers and to turn them upon the fertile bed of old Lake Lahontan is the purpose of the Truckee-Carson Project.

The main diverting dam for the Truckee-Carson Project is located on the Truckee river at a point 24 miles below Reno. The valley at this point is very narrow and it is altogether a very desirable place for a dam to be built. The dam proper, which is built of concrete is 155 feet long between abutments. A dirt embankment is built from the north abutment to the north side of the valley, making quite a reservoir for the storage of water. The concrete dam is composed of 15 piers, placed 5 feet apart, each one being 5 feet thick. There are 16 openings in the dam and these are fitted with cast-iron gates, which are raised or lowered by means of a screw gear from the top. At the south side of the dam and immediately adjoining it is the headgate through which the water flows into the main Truckee Canal. There are nine gates in the headgate and they are operated in the same way as those in the main dam.

The main Truckee Canal is 31 miles long. It starts at the main diverting dam and ends at a point on the Carson river near the western edge of the Carson Sink. This canal is the most expensive part of the entire project for its construction involved the blasting of large amounts of rock in some parts and the lining of these parts with Portland cement. There are also three tunnels on the canal, the construction of which entailed a large expense. The canal is dug of sufficient depth so that the top is at least two feet above high water mark and the capacity sufficient to allow the passage of 1200 cubic feet per second. Two large concrete spillways discharge any excess water back into the Truckee river.

The purpose of the main Truckee canal is to convey water from the Truckee river to the western side of the Carson Sink Valley, where it is emptied into the Lower Carson Reservoir and unites with the waters of the Carson river. The water from the reservoir then flows down the old river channel for a distance of four and one-half miles to the distribution dam at the head of the distributing system of the sink. This dam is 225 feet long and directs the water into two main channels on

either side of the river. These canals, when completed, will reach a total length of about ninety miles, and with their subditches and laterals will reach a length of over 11,200 miles. This great system of ditches will mean the irrigation of over 200,000 acres in the Carson Sink.

As soon as the present flow of the Truckee becomes insufficient to meet the demands made upon it for irrigation purposes, large storage reservoirs will be built in the mountains. Lake Tahoe is the greatest natural storage reservoir of the project, and a large concrete headgate is being built at the present time, at the outlet to control the height of its waters. tributary to the Truckee are also Donner Lake and the other lakes to be controlled in a similar manner.

After the completion of the storage reservoirs in the mountains the irrigation of the Wadsworth flat will next occupy the attention of the reclamation service engineers. This flat begins at Wadsworth and extends north for almost ten miles. It is partially located in the angle formed by the big bend of the Truckee and is about three miles at its nearest point from the main Truckee canal. The canal is on the opposite side of the river from the flat and in order to get the water across a large red-wood syphen will be necessary.

When the preceding project is completed a great concrete dam over 175 feet high is to be built in the canyon of the lower Truckee. At the point where the dam is to be built the canyon is very narrow and thus at the comparatively small expense a large reservoir can be formed holding millions of gallons of water. The reservoir will be in fact a large lake over 15 miles long and varying from 100 feet to 3 or 4 miles in width.

From the reservoir on the lower Truckee, ditches will be run to the large flat east of the Nevada Indian Agency and to the valley of Winnemucca Lake. On account of its being practically on the same level as the reservoir it is hardly probable that a very large portion of the flat can be irrigated. The valley of Winnemucca Lake, however, is much lower than the reservoir, and it is probable that a greater portion of the land lying on the eastern slope of the valley will be irrigated.

Upon the success of the preceding projects and upon the success of projects yet to follow, the future welfare of Nevada depends. If they are successful, and every indication points to the fact that they will be successful, the future prosperity of the state is assured. The mining industry has been a great boom to Nevada in the past and it will be in the future. But the mining industry does not offer permanent prosperity. Such prosperity comes only from agriculture and agriculture in Nevada is linked hand in hand with irrigation.

Y. W. C. A.

Miss Helen Salisbury, territorial secretary of the Y. W. C. A. is at the University now and will remain about ten days. The girls have various plans for entertaining Miss Salisbury and giving her an opportunity to get acquainted with them and the Faculty. Friday evening she joined the Faculty ladies in attending the Theta Jinks. Saturday afternoon, accompanied by the members of the cabinet, she enjoyed a picnic at Moana Springs. Monday afternoon Mrs. Romazo Adams will give a reception in her honor.

Miss Salisbury will lead the regular meeting on Tuesday afternoon; all the girls are cordially invited to be there. We trust that all the girls will try to meet her for she is a charming young lady and has had a great deal of experience in her line of work.

Pictures and picture framing at Porteous Decorative Co.

High School

At a special assembly in the high school, two new assistant editors were appointed, namely: Miss Francis Smith and Mr. Waterfield Painter. These are to assist in editing the high school column in the paper.

At this assembly the girls were advised not to "cut" literary Friday night on account of the "Jinks," although some were excused because of the costumes.

The high school was well represented both in numbers and costumes at the "Jinks." The costumes varied from "Topsy" to the "Goddess of Liberty," both distinctly American.

Miss Francis Smith was unable to attend classes Thursday on account of illness.

Miss Lula White conducted the physics class last week in the absence of Mr. Ross.

Miss Munk had charge of Prof. Thompson's Greek class Friday.

The H. H. Howe society rendered a very interesting program at its meeting Friday night, as follows:

Mandolin solo, Mr. Henriques; essay, Mr. Painter; paper, Miss Emma Munk, assisted by Misses Hattie Brown and Acheson and Earle Swain; declamation, Miss Smith; High School Interests, Earnest McLean; recitation, Miss Howe.

Miss Howe has offered to help all those in taking part in the exercises, and the society feels very fortunate in having her interested in its work.

Womans' Outlook Club

All the members of the Woman's Outlook Club who did not go to Mrs. Senator Newlands, the first reception, went last Thursday afternoon. The young ladies report a most enjoyable time. Upon arriving at the grounds they were conducted around the premises and down by the river. At the river they were allowed to pick souvenir bouquets from the extensive flower beds there, after which they went up to the residence. Here Mrs. Newlands served the most delightful refreshments and plenty of them, the effect of which can be best ascertained by asking the members of the club. Mrs. Newlands has showed herself to be a most delightful entertainer, and a very interested person in the college life of our young ladies.

The club has also increased its membership by three in the last week. Those who have been attracted into the club are Misses Nellie Morrow, Marie De Flou and Miss Drummond.

Divorce Colony News

This is written expressly for the benefit of Mr. Breeding, so as to elucidate him on the greatest mystery of his life. All know that he loves mystery, and that is one reason why he hurriedly put on a dress suit and a silk hat one evening to go down to the Hotel Golden to meet a fair lady in a red hat with a white feather, after answering a telephone call. He says that the voice was most charming, and the expectation of the lip-red wine even now makes him thirsty. But all the automobile rides, the dainty refreshments, and the charming society of a lady, promised, Mr. Breeding sought in vain, as the mystic lady calling him over the phone to assist in making her loneliness more bearable, was not to be found. Mr. Breeding has now learned that attempted association with owners of mystic voices is like chasing the "will o' the wisp."

Notice

All tickets out for the rally last Friday night, and for the Santa Clara game should be turned in at once to Asst. Yell Leader Tyler or Mr. Leavitt. These ought to be turned in at once so as to straighten up the records for the last game.

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