



"MERRY CHRISTMAS"

Wishing You All A Merry Christmas and New Year

P. B. Kennedy Accepts Place

Noted Scientist and Author Will Go to U. C. After 14 Years Sept As a Professor in University of Nevada

Dr. P. B. Kennedy has received his official appointment from the board of regents of the University of California. On January 2 Dr. Kennedy will go to California and begin his duties there. It is the day after his work at the University of Nevada will have been completed.

When the second semester at California begins on January 12, Dr. Kennedy will commence upon his new duties as assistant professor of agronomy and he will have full charge of the subdivision of the department which has to do with forage crops. His work will be at Berkeley. At the University of California Dr. Kennedy will give an advanced course in morphology and cultivation of forage crops in the United States with especial reference to the Pacific coast. This is strictly an advanced course at California and it is given exclusively to students of the junior and senior classes. From his study of forage crops and forage conditions in Nevada, Dr. Kennedy has written an article which appears in the Pacific Rural Press in its issue of December 6, 1913. The title of the article is "Nevada Range Sheep in Winter." The article is an original one. While there have been many articles published upon Nevada summer range conditions, there has been a great dearth of material upon the state of Nevada sheep range in the winter time. This fact led Dr. Kennedy to publish the article referred to.

Work Valuable

The value of the work of Dr. P. B. Kennedy in the University of Nevada can hardly be overestimated. As head of the department of botany, horticulture and forestry he has conducted his classes in such a way as to have gained the respect and confidence of all of his students and his courses have been ever popular among the students of the agricultural department. In addition to this, Dr. Kennedy has been a firm believer in athletics and this part of the college ac-

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Majestic Theatre

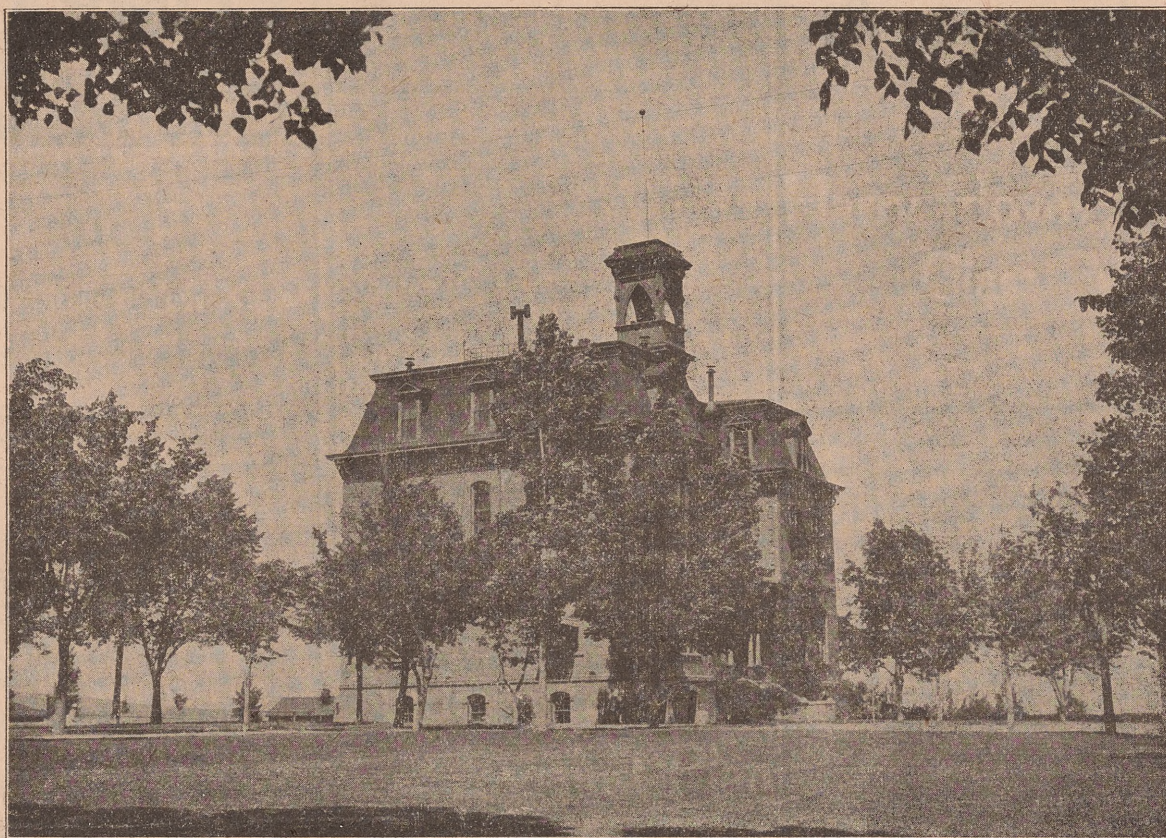
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MORRILL HALL

New Artemisia Is Progressing

Staff of Annual Urge All to Have Pictures Taken Immediately

The class of '15 is progressing rapidly with its Artemisia. The staff has already awarded to the Reno Printing company, the concern which so ably did the mechanical work of last year's book, the contract for getting out this year's book. The book is to be of oblong shape similar to the 1913 annual and of most of the other books published by the juniors in the history of the university. It is to have a stiff cover of cloth and will be of Nevada blue with conventional design and title in silver.

As to the contents of the annual the staff plans to have it "bigger and better than ever." There will be a little more reading matter than the last year book contained and a larger number of cartoons and half tones. Snapshots will be a feature of the issue. Already have been received from Lewis Hymers, formerly a student here, who was a contributor of cartoons for the last year's Artemisia and a couple of commencement cartoons which appeared in the Sagebrush at the close of the term 1913, some brand new and clever drawings and caricatures. Lewis Hymers worked for some time as the cartoonist on the San Francisco Chronicle and is now in Europe studying his art. Further work along this line will be done by John Sinal and Miss Jessie Hylton of the staff, by James McDonald, who now resides in Bakersfield, and who is a friend of the editor-in-chief, Louis Somers, and by the Lopezes, the originators of "Suggestions for a Varsity Crew," the picture that made the hit in last year's Artemisia.

The staff takes this method of urging all those who have not had their pictures taken for the book to do so at once. Delay on the part of certain students is blocking the progress of the book. The staff would like to

(Continued on page 8)

Folk Dancing Great Success

Miss Sameth's Class in Physical Education Pleases Large Crowds

The girls' study and dressing room in the gym is now assured; for the entertainment given by the physical education department was a grand success. The play "Santa Claus Entertains the Children," written by two freshmen girls, Marjorie Cowgill and Isabel Bertschy, cleverly connected the different national folk dances.

Carl Milentz and Miss Jessie Hylton, who took the leading parts in the play, deserve much credit. Carl Milentz was the jolly, good-natured Santa through and through and Jessie Hylton, the dainty fairy queen. Members of the girls' Glee club before the national dances sang the hymns of the countries they represented and by that brought in the fairies, composed of the physical education classes. Miss Sameth deserves much credit; for the dances from the Irish jig to the Swedish clap dance were well danced by the two classes. The men's Glee club, which sang at the close, are known to us all.

After the entertainment an informal dance was given. Every body was happy and a good time was the consequence.

DR. ADAMS A DELEGATE

Dr. Maxwell Adams expects to leave next Tuesday for New York, from which city he will sail on January 8, 1914, for his eight months' sojourn in Europe. Dr. Adams will stop in Atlanta, Ga., en route where he will attend, as the Nevada delegate of Phi Kappa Phi, the bi-ennial convention of the national honorary society. The convention will be held on January 2. Dr. Adams' family will accompany him.

IN APPRECIATION

Dr. and Mrs. P. B. Kennedy wish to express their appreciation to each of the members of the Faculty club for the beautiful bouquet of roses sent to Mrs. Kennedy during her illness.

"Rose Maiden" Again In 1914

Commencement Hit to Be Repeated in Next Semester by Request

Those in the know on matters musical are now very much enthused over a proposition to repeat the cantata "The Rose Maiden," which scored such a distinct hit last season. Prof. Haseman, the promoter last year, has the affair in charge, and is more sanguine than ever before over a successful production.

As to voices there is material and to spare. Few, who participated last year, have left, and many more good voices can be added. The list of soloists is as before, i. e., Mrs. Mertrude Halleck Wagner, soprano; Ruth Miller, contralto; Ray Penry, baritone; Louis Rose and Tom Walker, tenors. Rosie promises to be on the job in better voice than ever.

The girls' Glee club under the direction of Miss Denny, will commence work on the cantata immediately after the Christmas holidays. Miss Denny now has the girls in such a state of perfection that a few rehearsals will suffice, on even such an undertaking as "The Rose Maiden."

A novel plan in the matter of accompaniment is to be attempted. Miss Denny and Mr. Corris, the gentleman who so ably presided last year, will accompany as a duet—each at a separate piano. The plan was suggested to overcome the difficulty of one piano playing against 60 voices, for there will be that many in the production. Should it prove feasible, a treat extraordinary is in store for Reno music lovers.

As a conclusion let it be said that "The Rose Maiden" is merely a try-out for a big production to be given near commencement time.

Prof. Scrugham returned this morning from Carson City where he has been giving expert testimony in the case of Sheaff vs. the Pacific Power Co., a case that has been engaging the attention of the federal court during the past week.

Juniors Victors In B. B. Series

Summary of Interclass Season in Men's Basketball; Series Discloses Strong Varsity Material

The interclass basketball season is once more history and the present sophs repeated their last year's victory, thereby gaining possession of the handsome silver cup presented to the winners by Lachman & Mayer.

On November 25 the freshmen and sophomores opened up the season before a hilarious crowd of supporters. The sophomores won with ease from their inexperienced opponents, the final score being 67-8.

On December 2 the juniors and seniors had their battle. This game was closely contested all during the first half, but in the second half the juniors took a decided brace and by their excellent basket shooting and superb team work, went away from their rivals and won by a score of 36-13.

After this game much interest was in evidence over the final outcome of the junior-soph game. Both teams practiced diligently and on December 9 they lined up before a large crowd and from the time of the initial "toot" of Referee Henderson's whistle to the final call of the timekeeper the game was hotly contested. The sophs started out with a grand rush and had 11 points to their credit before the juniors scored. Captain Trabert of the juniors, however, made a change in the lineup of the team, and soon the juniors had run up within two points of their rivals. The score at the end of the first half was 15-13 in the sophomore's favor.

The second half was a repetition of the first. The sophomores got their stride quickly and through the excellent play of every man on their team soon romped away with the victory and trophy, the final score being 36-25 in their favor. The teams lined up as follows:

Sophomores—Jepson, Lemburger, forwards McCubbin, Krummes, guard; Henningsen, center. Hovey substitute.

Juniors—Sheehy, Neeld, forward;

(Continued on page 8)

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Prof. Dinsmore Returns to Nev.

Was Member of Committee Recommending Food and Drug Work to Congress

Sanford C. Dinsmore, in charge of the state department of food and drug control and weights and measures, returned several days ago from Washington, D. C., where he attended a conference of the officials of the departments of food and drug control on the state and government. The conference was called by D. F. Houston, secretary of the U. S. department of agriculture. About 200 officials were in attendance at the conference. It met in the auditorium of the national museum.

The purpose of the conference was to discuss matters of vital importance pertaining to the work of food and drug control and to enhance co-operation between the various state and government officials. The meeting took the form of an informal discussion. Prof. Dinsmore was on a committee which reported on the subject of "Memorializing congress and the president of the United States for an amendment to the national food and drug act, providing that power to make standards for food products, which standards should be recognized by the courts as prima facie evidence of what is the true standard for a food product, should be delegated to the United States department of agriculture, which department should be empowered to co-operate with our national association in securing the data and facts necessary for the formulation of such standards."

The committee reported that congress be urged to make this very important amendment to the national food and drug act. The members of this committee were: Hon. Geo. E. Flanders, New York, chairman; Dr. Charles D. Woods, Maine; Dr. E. F. Ladd, North Dakota; Hon. James W. Helm, Michigan; Dr. Sanford C. Dinsmore, Nevada.

Labels Blamed

The label authorized by the pure food law was blamed for frauds. The following is an extract from the Washington press in reference to the action of the conference on the label provision of the act.

"That the guarantee clause on the label, as specified in the pure food and drugs act, has caused 75 per cent of the fraud that has occurred in the manufacture of goods, that it is misleading to the purchaser and that it must go, is the substance of a resolution adopted by the conference of state food experts in session today at the National museum. Officials of the bureau of chemistry are in agreement with the resolution.

"This label does not mean, as is very generally supposed, that the government guarantees the purity of the contents of the box or bottle, it was maintained. It is simply a guarantee given by the wholesaler to the retailer that, in the event of the seizure of the goods under the pure food and drugs act, the wholesaler will take the responsibility, and not the retailer or the middleman.

"Action was recommended by the delegates looking to a revision of section 8, fourth subdivision, of the pure food and drugs act, which permits the manufacturer to mix his goods with harmless ingredients, such as coloring matter, was another great cause of trouble. Many of the speakers this morning pronounced it ineffective and useless. Nine-tenths of the state laws are modeled on this act and four-fifths of the states found serious deficiencies therein.

"The conference adjourned sine die at 1 o'clock, although several of the committees chosen will continue for some time on their appointed tasks."

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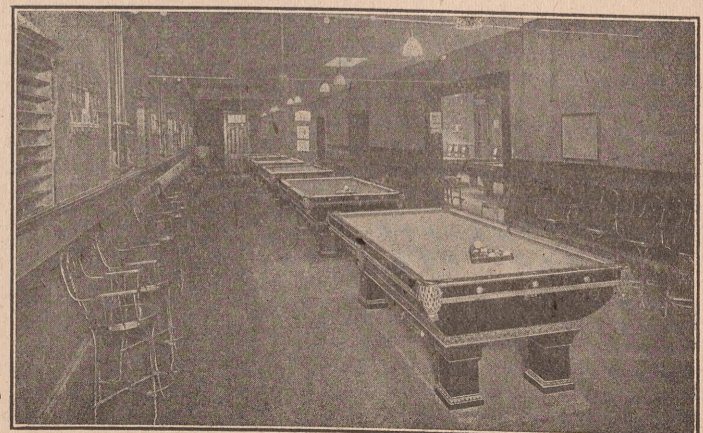
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Silas E. Ross P. A. A. Pres.

Graduate Manager Appointed President Nevada Commission of P. A. A.

Amateur athletic control is to be brought into athletic activities in Nevada through the action of the Pacific association branch of the Amateur Athletic union in appointing Sil Ross, graduate manager of athletics at the University of Nevada, as president of a "Nevada commission" of the Pacific association.

Graduate Manager Ross has received from William Unmack, sporting editor of the San Francisco Call, notice of his appointment. He says he will accept and will immediately undertake to carry out the suggestions offered, as he believes stimulation of interest in clean amateur athletics in Nevada will result. The University of Nevada has been a member of the P. A. A. since last spring. Among other things Unmack suggests are the following:

"There is a tremendous lot of good work you can do in your state by giving every organization representation on your committee and calling a meeting and going over the laws and constitution of the A. A. U. to enable you to strike a working basis.

"I would suggest that you start your committee by asking the Y. M. C. A. high school, your own university and any other organization interested in athletics to send representatives to your meeting. I would suggest that this committee organize the basketball championship of Nevada. With the backing of the P. A. A. you would have a legitimate championship and the games would be official. Later you could take up track athletics and have a state championship."

It is pointed out that in games of all kinds competitors would have to be amateurs registered with the Nevada committee. This does not, however, apply to intercollegiate contests.

Students Vote Against Plan

Affirmative Answer to "Do You Want Student Control?" Fails to Get Two-thirds

Reversing their former action, students of the University of Nevada Friday voted down the proposition of student control of student activities and shortcomings, such as cheating in examinations and offenses against the university regulations.

As at the first meeting, held when some of the students were in California as members of the football team, there was much acrimonious debate, including the exchange of a few personalities. Those who appeared to be sincerely opposed to student regulation of affairs seemed to fear the concentration of power in the hands of a committee of students. This was the strongest objection made.

The meeting was called by President J. I. Cazier of the student body to receive the report of the committee of faculty and students which has been working on the student government problem. On this committee were: Robert Farrar, chairman; Delwyn Dessar, Henry Wolfson, Miss Grace Mahan, Miss Dorothy Bird, Louis Sommers, Adelbert Pflaging and Miss Jessie Hylton for the students and Prof. Charles Haseman, Prof. R. C. Thompson and Athletic Director Amos Elliott, for the faculty.

After making its report, the committee proposed that a two-thirds vote be taken. When the ballots were counted the proposal to place affairs in the hands of the students was lost by two votes, the count showing 46 in favor and 32 against.

It is believed that the vote puts the quietus on the student council plan for the year at least. About 10 years ago a similar proposition was advanced by Prof. J. G. Scrugham and Dr. P. B. Kennedy and was voted down in a similar manner. Affairs will now remain under faculty control, the students having a hand in governing matters of athletics only.

COACH EUNICE A. CAGWIN

Miss Eunice A. Cagwin, a teacher at the Sparks school, has organized a girls' basketball team in the seventh and eighth grades which gives promise of developing into an excellent combination. A team from Lovelock has already issued a challenge for a game at Sparks and it is probable a date will be arranged in the near future.

Nevada Grain At Texas Show

Student and Faculty of Agronomy Department to Be Busy With Grain

Senior students of the agricultural college are preparing samples of grains to be exhibited at Dallas, Tex., at the corn exposition, in competition for the large cash prizes offered.

Last week a sack of turkey red winter wheat was received from the state experimental dry farm at Elko. It is of exceptional quality, weighs four pounds to the bushel more than the average and is considered a likely contender for the prize. Alfalfa seed is to be secured from Paradise valley; barley will be exhibited from Gardnerville and oats from the Truckee meadows.

Under the direction of the Nevada experiment station an educational agricultural exhibit will be maintained at the exposition. Prizes for grains exhibited will be given to the farmers providing the grains.

Prof. C. S. Knight of the agricultural college and F. L. Peterson, irrigation expert, have been mentioned as the representatives to attend the exposition from Nevada, but the selection has not yet been formally made.

Harry Hovey Class Prexie

Sophomore Class Elects Officers to Guide '16 Through the First Semester of 1914

New class leaders were chosen in a meeting Wednesday afternoon by the sophomore class of the University of Nevada. They will serve during the coming semester, the terms of the present officers expiring with the end of the first term.

H. H. Hovey, who led the cane rush and who acted as yell leader during the football season, was made class president. He succeeds Coin Cazier, of Wells, who was obliged to go home some time ago because of illness.

Glen Engle was elected vice president in place of Jack Pearson; Miss Vera Lemmon succeeds Miss Mary Raitt as secretary and L. Riving Van Dalsem succeeds Frank Fake as treasurer. Except to audit bills of the sophomore hop no other business matters came up at the meeting.

Old Virginia Presents Jack

Walnut Bootjack and Bell Given Nevada Historical Society by Comstockers

That the residents of Virginia City in the early days were not without the refinements of civilization is evidenced by two articles which last week found their way into the rooms of the Nevada Historical society. The first is an elaborately carved walnut bootjack, very different in construction and ornamentation from the mechanism of the same name which was commonly used by the poorer citizen of even the eastern cities. This one stands over three feet high and besides the heel pull has a swinging piece to exert leverage on the toe of the boot. It is the gift of Leon S. Mayer, whose father was one of the earliest pioneers of California and Nevada.

Reminiscent of another kind of luxury is the bell donated by Mrs. George Sutherland. It is of brass and is both carved and colored by way of decoration. This little bell rang up the first curtain in Maguire's opera house, which was built by Tom Maguire in 1863 in one of the worst sections of the town. It fronted 54 feet on D street and was 100 feet deep. It was famous as the gathering place for all sorts of meetings and was the first theatrical building erected in Virginia City, if, indeed, it was not the first in the state. It was later sold to Mr. Piper and was thereafter known as Piper's opera house. Mr. Piper kept the little bell and some years ago gave it to Mrs. Sutherland, with the request that it be preserved. In placing it now with the Historical society Mrs. Sutherland feels that she is carrying out his wishes and at the same time aiding in the gathering under one roof of the early history of the state.

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EDITORIAL

IN THE RIGHT DIRECTION

On last Friday morning the associated students of the University of Nevada failed to give their assent to a government by the students. The vote was the tangible result of much argument pro and con upon the subject which has extended from one semester into another. The vote of last Friday morning was evidence enough that a student council, for the present at least, would be a failure in this institution. Especially is it true of a small college that such a form of government must have the hearty cooperation of every man and woman. Therefore, it is best that the Friday vote decided as it did.

It is, however, generally conceded that the agitation for a more up-to-

date and efficient mode of student government is a movement in the right direction. There are other ways beside the student council. Perhaps next semester columns of the Sagebrush may be devoted to an exposition of one of these other methods. Although the student control plan failed to get a two-thirds majority by two votes, it is evident from that same vote that a majority of the students here are not satisfied with the present method of student body government. The Sagebrush believes with the majority—it believes that improvement is needed. Whether this improvement is made by amending the present system or by introducing another radically different system, the Sagebrush hopes to see another movement in this direction started during the next semester.

EUROPE AND AMERICA HAVE PLACED SEAL OF APPROVAL



The approval of the length and breadth of America and Europe has been stamped on the world's greatest musical entertainment, "The Chocolate Soldier," which will be presented with the full strength of the Whitney Opera company at the Majestic theater next Wednesday and Thursday nights, December 17 and 18.

Any opera endowed with so perfect a story would gain peculiar distinction through that alone. But the supreme secret of "The Chocolate Soldier's" power however, is the magic beauty of Straus' music, which expands into movement after movement and melody after melody, each distinct in style and tone and each a flawless masterpiece of musical eloquence.

What was once regarded as an absurdity—the idea of acting Shaw to music—Straus has accomplished in a manner that makes his present opera a source of unbounded delight to the most naive amateur in music and a miracle to the trained musicians who can appreciate the extraordinary effects that the composer has obtained. The entire production is characterized by the scenic elegance and wealth of local color and detail that brings the faraway land of Bulgaria close to everyone in the audience.

The Whitney Opera company is something of a phenomenon among light opera companies. Notably in the cast are Antoinette Kopetzky, as Nadina; Lottie Collins, as Mascha; Lu-

cille Saunders, Aurelia; Cora Williams, as Louka; Charles Purcell, as Lieutenant Bumerli; F. J. Boyle as Massakrof; George Tallman as Alexits; Sylvian Langlois as Popoff, and a company of 60, including an orchestra of picked musicians thoroughly versed in the intricacies of Straus' score.

Its story is derived from "Arms and the Man," the comic masterpiece of England's most brilliant dramatist, Bernard Shaw, in which he has analyzed with his scorching satiric powers, military life and the foibles of men and women through the medium of the adventures of a Servian refugee among a set of pompous Bulgarian officers and a troupe of village belles.

DELTA RHO

Amid great clusters of violets and greens, and under lights softly shaded by lavender and gold, Delta Rho introduced five of its new sisters into the mysteries of its innermost shrine, last Saturday evening. Numbers of members, both the active on the campus and many from the large Alumni association, assembled at the home of Miss Lena Laden on South Virginia street for several happy hours, when old loves were renewed and new ones consummated.

After the ceremonies, all partook of an elaborate banquet, during the courses of which the following toasts were proposed: "Welcome to Our Midst," Pearl Stinson; "A Prospect," Delle Boyd; "Baby's First Words," Ruth Pyle; "Coming Events Cast Their Shadows Before," Ruth Stubbs; "A Year in Delta Rho," Ruth Miller

Dr. John B. Koch, the student's optician, at R. Herz & Bro., the jewelers.

MISS GLASS IMPROVING

Miss Rowena E. Glass, who is a teacher in the high school in Carson City, was brought down from that city suffering with a severe attack of appendicitis. She was taken directly to the St. Mary's hospital and this morning her conditions is much improved. Her many friends on the campus will be pleased to hear that Miss Glass is getting along, in the words of the physicians, "wonderfully well."

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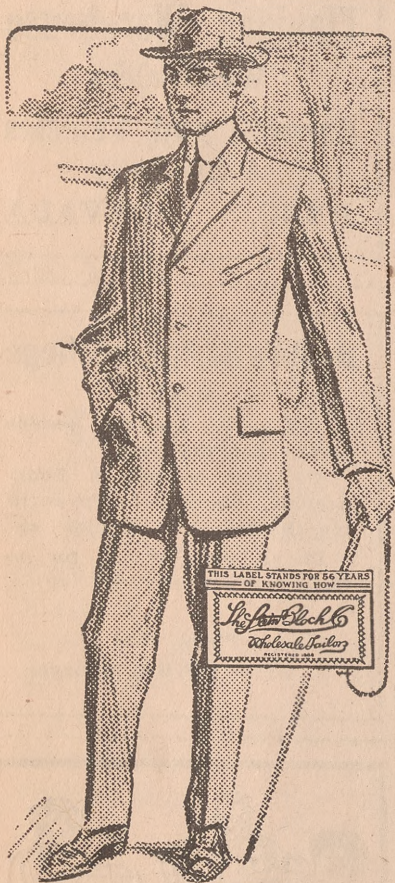
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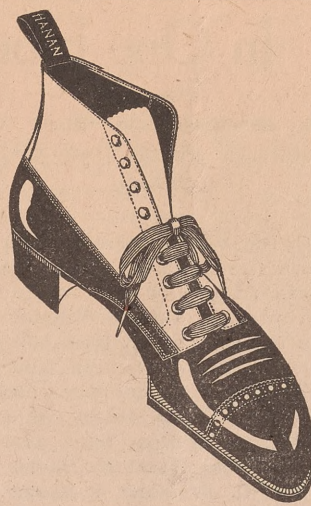
(Continued from page 1)
Littles has been more than once furthered as the result of this man's advice and experience. Dr. Kennedy came to Nevada in 1900. Starting to work in June of that year, he began to work on the collection of Nevada flora started by his predecessor, Prof. F. H. Hillman, who is now employed in the seed laboratory of the United States department of agriculture at Washington. Prof. Hillman is a keen scientist. His work done at the Nevada agricultural experiment station is known throughout the scientific world as among the best of the kind ever done. His place has been well filled by Prof. Kennedy.

In August of the year 1900, a fire started in the experiment station which was the third story of the present physics building and which was then finished off with a Mansard roof similar to Morrill hall. This fire destroyed the whole third story of the building and with it a valuable collection of insects and all of Prof. Hillman's collection of flora with the exception of about 600 specimens. These specimens were saved, have been remounted and form part of the collection in the herbarium today.

The Herbarium
This herbarium constitutes Dr Kennedy's great gift to the University of Nevada and to the state. Since the year of the fire the department has gathered together the native plants of the state from every section. Specimens there are from the Colorado river section in the south to those that grow along the border of Idaho and Oregon in the north. There are plants in the collection representing the flora of the very highest mountain ranges in the state, including the Ruby range near Elko and the Toiyabe range near Austin. From Nevada's burning deserts the plant life has been gathered—the Ralston desert between Rhyolite and Las Vegas has contributed its share. It is a fact that these barren deserts are wonderfully rich in plant life. At times, after a cloud burst or rain storms, myriads of varieties burst into bloom wonderful in their beauty and the gorgeousness of their coloring. These different kinds of plant, so numerous because of the variety of conditions in this state under which plant life may grow, have all been carefully mounted, preserved and classified. The Nevada herbarium is particularly rich in grasses, forage crops and poisonous plants and is particularly of use to students in the courses given in the agricultural department. The collection of all of the kinds of vegetables, trees, shrubs and flowering plants which grow within the state.

Besides being useful to the classes in the university the ultimate aim of the collection has been the production of a work on the flora of Nevada. A work which would contain every plant which grows within the borders of this state would be a task requiring all of the time of one man for ten years in addition to the great amount of work which has already been done.

Uses of Herbarium
The practical use of the herbarium to the people of the state at large is evidenced by the frequent letters and calls for information which the department receives. Dr. Kennedy has frequently been called upon to identify the characteristics of plants growing in different sections throughout the state. Persons often wish to know soil conditions. By the use of the herbarium, comparing the varieties of plants sent in with those in the collection, the department is able to tell whether the soil is rich or poor, whether it is heavy or light, whether or not it contains alkali. Plant life is an authority in all such matters. Recently the department received a letter of appreciation from a representative of the government who sent in a number of plants from deserts in Nevada. This man's work is an investigation as to the depth of the water table in these Nevada deserts. He sent in these plant specimens and from them Dr. Kennedy was able to give him valuable information as to



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Two Weddings In One Home

Frank Breeding and Hazel Davis Married; Phyllis Davis-Geo. Wilson

With the home decorated in a profusion of flowers and some 25 of the intimate friends of the bride and groom present, Cupid reigned supreme for the second time last week at the home of Captain and Mrs. Herman Davis Thursday night at 752 North Center street when the well known mining man gave his daughter, Miss Hazel E. Davis, away to Frank O. Breeding, a young mining engineer of Rawhide. By an unusual coincidence, George Wilson of Rawhide claimed the first bride from the Davis family Tuesday night.

At a ring ceremony performed by Rev. Brewster Adams, Miss Bertha E. Cliss and J. Leslie Hancock, of the university, stood up with the bride and groom. The fateful words were briefly told and following the solemnity of the actual tying of the knot the party burst into merriment and sat down to a wedding supper of turkey and other good things which preceded the departure of the bride and groom for the coast where they will spend their honeymoon.

Both of the young ladies married last week from the Davis home are natives of Nevada and have long been popular members of Reno's social set. Mr. Breeding, the groom, of that night, is a coming man in his profession in this state and is now engaged in overseeing some mining enterprises at Rawhide where he will take his bride after their return from California.

* * *

A pretty wedding ceremony at the home of the bride's parents united in marriage Tuesday night, Miss

Phyllis Davis and George Wilson. The nuptial knot was tied at the home of Captain and Mrs. Herman Davis, 752 North Center street.

Flowers predominated at the wedding with ropes of smilax and yellow chrysanthemums lending gaiety to a joyful event.

Promptly at 5 o'clock the bridal party entered to the strains of the wedding march and Captain Davis gave the bride away.

Rev. Brewster Adams performed the ceremony.

The bride, who is one of the society buds of this city, was charm-

ingly gowned in brown, carrying a bunch of bride's roses. She was accompanied by Miss Veira Calhoun, who wore a white tailored gown and carried pink carnations. The groom was accompanied by Dana King.

After congratulations a sumptuous wedding supper was served to 30 or more guests. Among the out-of-town guests were Mr. and Mrs. Frank Kornmeyer, Frank Breeding and Mr. and Mrs. J. M. Kirkley, all of Rawhide. The couple left for California for their honeymoon and on their return will be at home in Rawhide.



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College Graduate Writes Special Story for Sagebrush

Northwestern Power Company's New Plant on the White Salmon River; Its Construction and Its Purpose Written by a Nevada Engineer

By EDGAR PIERSON

The Northwestern Electric company's central lighting, heat and power system of Portland, Oregon, includes a completed hydro electric power plant and 60-mile transmission line; and an auxiliary steam and central heating plant, substations, and overhead and underground distributing lines now in course of construction.

The dam and power house of the hydro electric development are located on the White Salmon river, Washington, about two and one-half miles north of the point where the White Salmon empties into the Columbia river.

The concrete dam is set in a natural keyway of solid rock which at this point forms the bed of the river and rises perpendicularly on either side to a height of some 80 feet. Before actual construction could be started a large amount of preliminary work had to be done. A wagon road, over which to transport material, had to be built from the Spokane-Portland and Seattle railroad station on the Columbia river to the power site. This road crossed the river near the power house necessitating the building of a heavy single span wooden bridge 115 feet long and 90 feet above the water. This bridge had to be of sufficient strength to support the heavy power house machinery which had to be taken over it.

The Main Dam

In order to be able to work on the main dam the river water had to be diverted by a timber crib dam through three tunnels cut through solid rock for a distance of some hundred feet.

At one end of the dam a hill rises sharply to a height of several hundred feet. On the side of this hill and near the top was placed a rock crushing and concrete mixing plant. The rocky summit of the hill was then literally sliced off, ground up in the crusher to fine rock and sand, mixed with cement and water, and poured into the forms around the key-rock to compose the dam. The transportation of this material from the top of the hill to the riverbed was all done by gravity. The completed dam is 60 feet long at the bottom, 470 feet long at the top, 96 feet through at the bottom, and 15 feet through at the top. It is about 125 feet high and contains approximately 30,000 cubic yards of concrete. This dam backs the water up and forms a lake about two and one-half miles and one-quarter mile wide.

Wooden Pipe

Near the top of the dam are stationed the head gates through which the water is taken and conveyed about a mile along the river bank in a wood stave pipe to the concrete forebay with a fall of one and one-half feet in 1000 feet. This pipe is 13 1/2 feet in diameter and is set in wooden cradles about four and one-half feet apart. It is the largest pipe of its kind in the world. From the forebay the water is conveyed by two pressure pipes, nine feet in diameter, for a distance of 500 feet, where it enters riveted steel pipe for the remaining distance to the power house. A working head of about 158 feet is secured at the power house, which is located on the river bank at the water's edge.

Electricity

The water power is converted into electrical energy by two Allis-Chalmers Francis type turbines direct connected to Allis-Chalmers generators. Each unit consists of two turbine wheels in separate casings on either side of a 6000 kilo volt ampere, 2300 volt, three phase generator. One end of the shaft of each unit is provided with a thrust bearing, ordinarily not in use, so that one wheel of a unit may be removed for repairs at any time and the unit operate at one-half load. A maximum of 18,000 horsepower may be obtained from the two units. The generator fields can be excited by either a small turbine had direct current generator, motor generator set, or storage battery. The storage battery is of sufficient size to excite the generators, operate all the remote control apparatus, and take care of the small station power motors and lighting, when necessary, for a period of several hours.

The generated 2300 volts is stepped up to 60,000 volts by two banks of transformers, three 2000 kilo volt ampere single phase transformers in each bank. All the main circuits are governed by General Electric remote control oil switches.

Power Transmission

From the generating station power is transmitted at a pressure of 66,000 volts to Camas, Washington, where about 4000 horsepower is used by the Crown Columbia paper mill, one of the largest paper mills on the coast. From here the remaining power is transmitted 18 miles farther to the main substation situated on the east side of Portland city. The transmission line is built of heavy cedar poles of from 40 to 90 feet in length. Three power wires, spaced in a 7-foot tri-

angle, and two telephone wires are supported by these poles.

The power wire is steel corded aluminum wire having a conductivity equal to 000 copper wire and a safe tensile strength of 19,000 pounds. The splices in this wire were made with a McIntyre sleeve on the steel core for mechanical strength and for electrical connection a thick aluminum sleeve was pressed on to the aluminum wire by a hand operated hydraulic press at a pressure of about 25 tons.

Crossing River

Near Camas the line crosses the Columbia river on nine steel towers, five of these being supporting towers about 150 feet high, and the other four being strain towers 60 feet high. The cables cross the main channel in two 1200-foot spans supported by three of the towers, one on each bank and one in the center of the river on a small rocky reef. The towers support three three-quarter inch steel power cables, and one one and one-half inch steel ground wire. The power cables are held in place on the supply W C A.

The regular Y. W. C. A. meeting will be in charge of the missionary committee, whose plan is to explain "To Japan on a Postage Stamp." Short talks will be given by three of its members, Marjorie Meade, Helena Shade and Mary Leon. There will also be special music. Everyone is invited, Wednesday at 4:30.

porting towers on insulated sheave wheels so that when expansion and contraction takes place, due to changing temperatures, the cables can move back and forth over these sheaves. The cables are anchored at both ends to the strain towers situated about 600 feet beyond the supporting towers.

A good portion of the transmission line passes through heavy timber, making it necessary to cut all trees which could possibly fall and reach the line, thus preventing any shut down of the plant from this cause.

The transmission line, together with the station apparatus, are protected from lightning by the latest type of aluminum disc lightning arresters.

At the Albina substation in Portland, on the east bank of the Wallamette river, the 60,000 volt pressure is stepped down to 11,000 volts by two banks of three 2000 kilo volt ampere single phase transformers, and is then conducted by a submarine cable to the west side of Portland, thence through the underground system to the auxiliary steam plant located in the basement of the new Northwestern Electric office building.

Submarine Cable

The submarine cable is a steel armored three conductor 0000 copper cable. It was laid by the Pahl system, patented, which is a very ingenious method of suspending the cable from a steel messenger under the water somewhat similar to overhead messenger construction.

At the auxiliary steam station the 11,000 volts are stepped down to 2300 volts and connected in parallel to two 23,000 volt, 3500 kilo volt ampere, three phase, General Electric generators direct connected to General Electric steam turbines. These units will float on the line continuously, taking care of the peak loads and acting as an auxiliary source of supply for the whole system in case of any failure of the hydro electric plants or transmission line. The generators can be excited by either a steam turbine and generator, motor generator, or storage battery. Similar to the hydro electric plant a storage battery is maintained in both the substation and steam station of sufficient size to excite all generators, operate remote control apparatus, and provide for the station lighting for a period of several hours.

In addition to the steam turbine generator units in the steam station provisions have been made for four 1500 kilowatt, 230 volt, synchronous motor generator sets for furnishing direct current to the underground system which supplies the main business section of Portland. There will also be a 250 kilowatt, 125 volt motor generator balancer set which will float on the direct current system, balancing the load and preventing fluctuation of voltage.

Plant in Theater

As the steam plant is located in the basement of an office building, in which it was first planned to construct a theater, the prevention of noise and vibration from the rotating machinery became quite a problem to the designer. After going into the matter thoroughly it was decided to inclose the turbines and generators in steel casings to prevent noise, and to place the two turbine units with their axis at right angles to the axis of the motor generator sets to counteract the vibration. Each unit was also set on a huge block of concrete and these blocks were separated from each

other and from the building walls with crushed rock which is a good nonconductor of vibration.

Steam a By-Product

From the two stations in the heart of the city the overhead and underground distributing systems radiate in all directions to supply consumers.

Stirling boilers are used to generate the steam for the turbines. The low pressure steam from the turbines passes into a central steam heating system at a pressure of seven pounds per square inch. It is conducted under the streets in wood incased steel pipes to the office buildings and hotels which it supplies with a heat at a pressure of about two pounds. At every 100 feet throughout the underground piping system is placed a variator which is a form of expansion joint. The pipe rests on rollers and these, together with the variators, take care of expansion and contraction. The amount of steam used by the customer is measured by the amount of steam condensed in his pipes. That is, the steam passes around through the customer's radiators and back to a condensing coil in the basement. From this coil the condensed steam runs into the meter where it is weighed and recorded. The steam heat is thus a byproduct of the manufacture of electric current.

Two and one-half years approximately the time taken to build the system, which is the most modern and up to date known to science.

Mr. B. C. Condit, a graduate of Stanford university, is the chief engineer and he directed the designing of the entire system.

Doctor Church Visits Rose

Spends Three Days in the Mountains; Lake Tahoe's Shores Are White

After a three day trip alone to the summit of Mt. Rose, Prof. J. E. Church of the University of Nevada returned last Wednesday night with the report that the snow on the summit is apparently about two feet deep at this time. Measurements were not taken, being delayed until next week on account of the necessity of packing in supplies on the trip just ended.

Dr. Church started Monday evening and went as far as the Nick Sorgi ranch, formerly the Elkins place. Starting early Tuesday morning he made the round trip to the summit and back. He pushed through with a horse as far as the 9000-foot level and packed the supplies thence on his back over the crusted snow. Without snowshoes his weight broke through at each step but with his snowshoes it was fine going. At the summit he found the meteorological instruments in perfect working order. The snow was found to vary in depth, some drifts being very deep, but the average, Dr. Church thinks, will be found to be from one to two feet when measured next week. This is about the same as last year at this time.

From the summit the view was more perfect than usual, the mountains and Lake Tahoe being as if etched, so clearly did they stand out in their snow blankets. Snow extended all the way down to the edge of the lake.

No Vancouver Rugby Journey

Midwinter Excursion Planned by Ruggers Proves Impractical for This Year

Hopes entertained by the University of Nevada Rugby team for a trip to Vancouver, B. C., during the holidays, have gone glimmering as the result of a telegram received Thursday by Graduate Manager SI Ross. Unless some kind friend appears to make up the guarantee offered to \$1000, the trip is off. The telegram received in answer to a letter sent to Vancouver follows:

Vancouver, B. C., Dec. 10.
Graduate Manager Athletics, University of Nevada.
Vancouver Rugby union offers 75

That Boy's and Girl's Teeth

More children would have better looking teeth—sounder teeth and more healthy teeth if they received occasional attention from a dentist who thoroughly knows his business. A little decay once started spreads like wildfire.

We specialize in this character of work. We do a great deal of it and with uniform success. Our work is all painless. And while but little work is often necessary it pays, and handsomely so, to give it prompt and careful attention. EXAMINATION FREE.

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307 Sierra St. Reno, Nev.

per cent of gross receipts three games. Will guarantee this shall not be less than \$700. Christmas or New Years must be one of the days. All subject to having to accept challenge of Stanford for cup. S. WEBB.

It is understood that Stanford may challenge for the championship of the Pacific coast.

It is estimated that the expense of the Nevada team to San Francisco and return would be \$250, while the trip by boat to Vancouver and return would require three times as much more. So it is understood that unless the unexpected happens, the hopes for the trip are at an end.

LITERARY CLUB WILL BE ORGANIZED LATER

Although a meeting was held Wednesday at the university looking toward the organization of a literary and debating society, no action to organize was taken. It was decided, owing to the proximity of examination week to delay consideration of the subject until next semester.

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P. B. Kennedy Accepts Place

the kinds of plants for the kind of plant often indicates accurately the depth of the water table.

The object in keeping a herbarium is for a foundation of all scientific investigations. The study of the flora of a state including a knowledge of the plant life history is the foundation of all scientific study whether that relating to insect life, plant diseases, poisonous plants and even gives valuable information in regard to soils. A valuable part of the collecting of the plants in the herbarium was done by Dr. A. A. Heller, recently of the department of forestry here, who, because of his experience as a professional collector in Hawaii, Mexico and elsewhere had a thorough knowledge of the mechanical processes involved.

Considerable work has to be done by the department in answering questions concerning weeds and weed eradication. Also, many of the business firms of Reno and elsewhere, before placing orders for large quantities of grass seed, alfalfa seed and the seeds of other forage crops, send samples of the seed to be ordered to Dr. Kennedy for identification of impurities in the way of obnoxious seeds such as the lovevine or dodder. The department has been of much practical service in this particular.

Lack of Appreciation

That Dr. Kennedy's work in building up the departments of botany, forestry and horticulture in this university has been a wonderful work will be conceded by all who have taken the trouble to investigate it. But, as is usually the case when a great big undertaking for the advancement of any institution or for the benefit of a state is being done efficiently but quietly, there is a lack of appreciation. There are few in this university today who have ever taken the trouble to find out that there is such a collection of the flora of this state as has been described in this article kept in the top story of Stewart hall. There are few who appreciate that the lights which so often brighten those windows late at night are the indication that this data so valuable to farmers, merchants, investigators and scientists of this state is being made more and more valuable. When Dr. P. B. Kennedy leaves the University of Nevada not only will this university have lost one of its most competent professors, but this state will have lost the one man within its borders who is thoroughly acquainted with its flora and with its practical and economic importance.

His Record

Dr. Kennedy was made an associate in agriculture in the Ontario agricultural college at Guelph in 1898, he received his B. S. A. degree from the University of Toronto in 1894 and his Ph. D. from Cornell in 1899 after spending three years at the great

New York university. After leaving Cornell he went to Washington, D. C., where he was employed in the United States department of agriculture. From there he came to the University of Nevada. He has worked here constantly ever since with the exception of the years 1910 and 1911 which he spent in England and Scotland studying botanical subjects in connection with his Adams fund work. He leaves for Berkeley on January 2 to become a professor in the agricultural department of the University of California.

The Sagebrush joins with his friends at Nevada in wishing Dr. Kennedy and his family every happiness and success in their California home.

Juniors Victors In B. B. Series

(Continued from page 1)

Trabert, Painter, guard; Boggs, center. Ogilvie, substitute.

The interclass season has certainly opened the eyes of all enthusiasts toward prospects of a winning varsity combination next semester. Under the supervision of Coach Ross there will certainly be a fast quintet turned out and indications point toward a great fight for nearly every position. A very heavy schedule has been arranged and the fans will surely get their money's worth next semester.

Dr. John B. Koch, the students' optometrist, fits glasses right.

New Artemisia Is Progressing

(Continued from page 1)

promise the book early in the spring but are being prevented from doing so because of being unable to have the engraving work done at once. 1915's Artemisia staff consists of the following: Louis Somers, editor-in-chief, Dorothy Bird, Jessie Hylton, John Sinai, Elmer Wiley; and Walter Bowler, business manager; Richard Sheehy, assistant business manager.

Miss C. B. Dow

Dean of Y. W. C. A. School to Be Here Tomorrow

On Wednesday of this week Miss Caroline B. Dow of New York City will be a visitor on the campus. Miss Dow is the dean of the national training school for secretaries of the Young Woman's Christian association. This school, which is situated at 135 East 52d street, New York, is one at which only graduate work is done by those who have chosen after completing their college courses the Y. W. C. A. secretaryship as a profession. After an existence of but six years 124 college women have certificates from this school and are actively engaged as secretaries in the field.

Miss Dow is a graduate of Vassar college and a woman of wide experience and ability. The Nevada girls will be indeed fortunate to meet her.

STATIONERY

Our line of Hurd's Stationery for the holidays is now ready for inspection. Better than last year. Each box an expression of quality—distinctive individuality for writing paper for all occasions. The new correspondence card cabinets in all shades, plain and beveled gold edges.

DO NOT FAIL TO COME AND LOOK IT OVER

The White Company

The Home of Hurd's Paper

The postoffice is across the street from us

It May Be True That "Clothes Don't Make the Man"
But Good Tailoring Improves His Appearance

Lavoie the Tailor

"Oh! Jim, You Look So Handsome!"

Said Laura to Jim when she saw him in his new suit and overcoat which were tailored for him by the International Tailoring Co., represented in Reno by Lavoie the Tailor.

Well, Laura, I really do think the clothes are handsome—even better than the other suit I had made. I'm particularly stuck on the fit and the well planned lines.

Do you know, father's quite a stickler for good clothes, and I'm mighty glad I've got these to wear back home. I believe dear old dad will have me order a suit for him from Lavoie.

I almost wish I were a man, Jim, when I see you in that International suit and overcoat, for a woman loves fine clothes.

Do Your Xmas Shopping Now

Our line of Holiday Goods Is Complete in Every Detail. Particularly do we solicit the ladies' trade and ask them to rely upon our judgment in assisting them to make their selections, as our twenty-five years' experience in the business has familiarized us with all the best lines of Cigars, Cigarettes, Tobacco, Pipes and Smokers' Sundries. We will lay aside any article selected until December 24th.

Cotton-Turner Cigar Co.

Phone 1160

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Phones in the Rooms

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LARGEST HOTEL IN THE STATE

PALACE DRY GOODS
HOUSE
THE PALACE SELLS IT
FOR LESS
RENO NEVADA

BATH ROBES

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A Fine Bath Robe or Smoking Jacket Makes an Elegant Xmas Gift. Our Selection is Large, Our Patterns and Styles The Best, and Our Prices The Most Reasonable.



SUNDERLANDS'

The Smokery

Lachman & Mayer

The only Class A Cigar Store in Nevada

If You Want to Send HIM or HER Something for Xmas Call and Make Your Selections Now

Sole Agents for

Gunther's famous Candies

Phone 470

Nixon Bank Next Door