

The Student Record

VOL. XV.

University of Nevada, Reno, Nevada, March 5, 1910

No. 23

ENGINEERING CLUB HEARS LECTURE

Mr. Kalenborn, Electrical Engineer of R. P., L. & W. Co., Addresses Students.

On last Wednesday evening the Engineering Club was privileged to hear a most interesting and instructive lecture by Mr. Kalenborn, electrical engineer of the Reno Power, Light & Water Co. The subject of his lecture was "The Truckee River General Electric System." The lecture room was crowded, several Reno people attending. At the conclusion of his lecture many stereotyped views, which the speaker explained, of the works of the electric system were thrown on the screen. When Mr. Kalenborn descended from the platform he was given an extended ovation. His lecture, together with his preliminary remarks, was as follows:

When Prof. Boardman asked me to speak on the Truckee River General Electric System I felt that in doing so I would be trying to tell you something which you already know, but on second thought decided that such a talk might prove interesting, and therefore accepted his invitation.

At the risk of being too explicit I will go pretty well into detail in the description of the plants; but will begin by giving you a general idea of the system as a whole.

The Reno "power company" consists in reality of two corporations, each owning and operating two water-driven electric power plants on the Truckee river above Reno.

The Reno Power, Light & Water Company, with which you are perhaps more familiar, owns the Washoe plant of 2000 H. P., between Laughton's and Verdi, and the Reno power plant of 1200 H. P., which is on the river just west of the city limits.

Besides operating these H. P.s the company also supplies Reno and Sparks with gas and with water from the K. C. K. and Highland ditches.

This company distributes electricity for both power and lighting in Reno and also in Sparks, and its system has grown from a little station turning out 80 H. P. in 1900 to one which furnishes light and power to these two thriving towns, to the extent of 2500 H. P.

The Truckee River General Electric company owns two water power plants, many miles of transmission lines and a number of sub-stations and local distributing systems.

The uppermost plant on the river, Farad, named after the scientist, Faraday, takes its water from the Truckee river immediately below the Floriston Pulp & Paper company, which has just previously used the water to drive its pulp grinders and paper finishing machinery.

The Farad power house has an output of 2400 H. P., in two generators, and is in California, about four miles from the state line.

Just at the state line the second plant takes its water from the river. This plant, Fleish (Fleishhacker with the "hacker" hacked off) has only one generator, but has an output of 2600 H. P.

From these plants, and connecting with the Washoe and Reno plants, 23,000-volt, 3-phase transmission lines carry the electric energy to the mines of Virginia and Yerington, to the plaster mills at Mound House, and to the towns of Reno and Sparks, Virginia, Silver, Dayton, Mason, Yerington, Carson and Minden.

The distance from Farad to Yerington (the longest distance of transmission) the longest distance of transmission of the tension lines is 165 miles.

From Farad to Virginia the old line is a two-circuit copper line on one set of poles, No. 6 H. D. copper, on a 30-inch triangle on swan square redwood poles 30 feet long, 125 feet apart.

From Fleish to Virginia, at the time Fleish was built, a new line was built in 1905, of aluminium, equivalent to No. 1 copper, on 35-foot round cedar poles, triangle, porc. ins., 200-foot span.

The copper ran up hill and down, carrying a uniform span of 125 feet, but with aluminium advantage was taken of gulches and depressions and long spans were used. At Hum-r creek you will find a span of 1100 feet, with

U. N. MEN TO HAVE UNIVERSITY CLUB

Will Meet Tonight for Forming of Organization; Movement Popular.

This evening all the alumni and graduates of the university in the city will meet at 9 o'clock in the public library, Mill and Virginia streets, to take up the matter of the organization of a University Club.

Plans have already been discussed to some extent, and it has been practically decided to secure club rooms in a central location, which are to be furnished and made attractive as a gathering place of 'varsity men and their friends.

The plan of organizing a university club was brought up not long ago with an idea of making an organization of all university graduates in Reno, no matter what the institution. In the present plan, however, it is intended that the U. of N. men shall maintain the club absolutely, but that university men of other institutions are to feel at liberty to avail themselves of the privileges of the club.

a consequent saving of time and material, at no sacrifice to operation.

In California long spans are used entirely, in some cases as long as 2300 feet, and no trouble has resulted because of these long spans.

The lines from Carson to Virginia and Yerington are copper, but of only single circuit, similar to No. 1.

From this general description I will go back to a detailed sketch of one of the plants, and will then tell you about the operation of the system.

Farad being the pioneer plant, I will describe that one. This plant was built in 1899-1900 expressly for the purpose of unwatering the lower levels of the Comstock, which even then were too deep for economic pumping by steam. The first power on the Comstock was the occasion of a big dinner in celebration of that event.

On October 20, 1900, thirty or more business men of San Francisco connected with the mines came up and assisted with the celebration, for it was at 1 p. m. of that day that the power was first turned onto the motor of the Gould & Curry stamp mill.

At the time the Farad plant was built electric power transmission had but a short history behind it, for it was only seven years previous that the first three-phase power plant in the United States was put into operation at Redlands, Cal.

However, the application of electric power on the Comstock has been quite successful, as evidenced by the heavy load we are pulling there, and from the fact that new electric motor applications are continuously being made.

In the construction of the Farad plant a dam was first built across the river, not to form a lake or pond for storage purposes, but so as to divert the water of the river through the head gates through the flume.

The dam is built of a timber crib filled with rock, and is covered over with heavy planking.

The water, after passing through the settling basin, enters the flume, and on a gentle slope follows down the canyon above the river for a distance of 8800 feet.

In this distance the river has dropped so that an effective head of 85 feet is obtained, and with the amount of water carried in the flume 2400 H. P. is realized.

The flume, of wood, is 10 feet 3 inches wide by 8 feet 3 inches high and carries about 350 sec. feet of water. Originally the flume carried only half this amount, enough for 1200 H. P., and was enlarged by building upward as shown in the picture to be exhibited later.

A great many mistakes have been made in this way, building too small, and when enlargements are made the cost is unnecessarily great and the appearance of the work suffers.

Where the flume ends, on the hillside above the power house, a tank or penstock was built, serving as the connection between the flume and pipe lines which carry the water to the wheels. In this penstock you will find

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NEWS OF ALL THE COLLEGES

Various Items of Interest Taking Place Throughout the Country.

Indoor football practice is now being held at Yale.

The University of Indiana dramatic club is called the Strut and Fret.

Washington's birthday will not be observed at Cornell university after 1910.

The students' debating society at Michigan will soon discuss the Peary-Cook controversy.

The De Pauw faculty recently decided to abolish intercollegiate basketball after this season.

Michigan Students are worried over the threatened raise in board from \$3.50 to \$4.00 per week.

Kentucky formerly had a moustache club, consisting of three members of the Senior class.

Harvard will erect a tablet in memory of her eleven sons who died in the Spanish-American War.

The profits from "Koanzaland," the comic opera presented at Michigan this year exceeded \$2,000.

"Suffragette Chicago" will be played by the Black Friars the Dramatic club of Chicago University.

Yale's new boathouse is to be ready for use on May 1, 1910. When complete the building will cost \$100,000.

A negro janitor at the University of Missouri threatened to quit recently for fear a comet might hit one of the University buildings.

The latest fashion is signing excuse blanks has been set by an Armour Tech. man, who wrote "unavoidably sick."

It is proposed by prominent educators to interchange students in the universities of Canada and the United States.

One of the Minnesota professors had his class rate their own papers, putting the basis of their standing on the amount of work actually done.

More or less trouble is being encountered at Wisconsin owing to the fact that all the co-eds in the household economy classes are dropping out of school.

Lehigh University's board of trustees recently decided to lend fraternities certain amounts of money for help in building chapter houses on the campus.

A professor in the University of Missouri makes the statement that in intercollegiate debating teaches evasion of law and exerts an immoral influence upon student life.

Cigarette smoking in classic Holden Hall, the co-eds' dormitory of Wooster University, may result in the expulsion of four fair students from the Presbyterian institution.

Because one of the Meadville papers printed some slurring remarks about Allegheny College and the president, the students drew up resolutions criticising the paper, marched downtown in a body and nailed the resolutions to the door of the newspaper office.

That it is possible that California may send her track team of eleven men to the Western Conference meet in Illinois next June, is shown by the fact that the Executive Committee on last Wednesday instructed Graduate Manager Ralph Merritt to investigate the matter and report on the

MECHANICAL DEPT. GETS RECOGNITION

Engineering Magazines Base Articles on Railway Tests Made by Univ. Students.

The students at large of the university and the faculties of the departments are, perhaps, aware of the widespread recognition that our College of Mechanical Engineering is receiving all over the engineering world. In recent issues of some of the world's greatest engineering magazines articles have appeared concerning tests made on Southern Pacific engines by some of our mechanical engineering students.

The Railway Age Gazette of January 14, 1910, has an article upon the result of tests made last year by M. E. Jepson, '11 and E. W. Clingman, university students, on engines of the Southern Pacific railway that are running between Truckee and Roseville Junction. The significance of these tests was that on the strength of the results obtained by the above named students the Southern Pacific ordered thirty-five new engines of the mallet type to be built.

In the Railway Electrical Engineer for February, 1910, an article appears on the results of tests made by Donald Bird, '10, and E. D. Mack, '10, at Pocatello, Idaho, on boilers, generators and engines. The tests made at Pocatello appear in the Railway Electrical Engineer as models for power plant tests to determine the exact costs of generating power.

When the great railways of the West and the great engineering magazines of the world place such stress upon the work of our Mechanical Department it is time for our university to take notice of the fact that our College of Mechanical Engineering is second to none.

possibility of sending eleven men on the Eastern trip.

Minnesota has accepted Nebraska's invitation to the Omaha championship games April 1, and will enter an entire track team. The invitation includes an offer to pay the expenses of sending a four-man relay team.

Says President Fox Nichols of Dartmouth: "The college, in all its relations, is the most human and humanizing influence in all of our civilization, and year by year, its gains in this direction are substantial."

Columbia has an endowment fund of \$28,500,000. This is greater than any other school in the country. Leland Stanford is second with \$24,000,000, and then follow Harvard, Chicago, Yale, Cornell and Pennsylvania.

Baron Kikuchi, formerly president of the Imperial University of Tokio, and a graduate of Cambridge, is to deliver an address to the students of the University of Washington. He has recently spoken to several Universities of the Pacific coast.

By an almost unanimous vote of the students at the University of Missouri, the word "hell" and other profanity will in the future be omitted from all songs and yells at that institution. Only eight votes were recorded in favor of retaining the "cuss words."

German W's will hereafter be granted to the women of the University of Washington who make the final 'eams in basketball, baseball, handball, tennis, hockey and rowing, and also to those who win honors in "gym." work. Hitherto it was impossible for the women to win their emblem except in debate, where they were presented with the regulation gold-barred W.

A unique method will be used by the English Club of California to advertise the drama "Nero," which they will present in the Greek theatre on April 22. Facsimiles of Roman coins of the time of Nero and Agrippina

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HAPPENINGS ON UNIVERSITY HILL

Events of Interest Taking Place Upon the University Campus.

Basketball Schedule

The following is the girls' varsity basket ball schedule for this season as it has been arranged by Miss Irene Conkey, '10, Women's Athletic Manager:

March 18—Nevada vs. University of Pacific, at Reno.

April 9—Nevada vs. San Jose Normal, at Reno.

April 16—Nevada vs. Chico Normal, at Chico.

April 18—Nevada vs. San Jose Normal, at San Jose.

April 19—Nevada vs. University of Pacific, at San Jose.

Carson Defeats Plutes 36-21.

Last night the Carson High School Basketball team tried conclusions with the team of the local "Plutes" in our "gym." Many brilliant plays on both sides made it a fast and interesting game, although some little roughness was shown at times, occasioning a call for time out for some unlucky player.

The Plutes were represented by Butler, Brown, Crews, Wendt and Charles; Carson High by Lee, Heidenger, Williams, Whitaker and Day.

The star performers of the evening were Crews and Charles for the Plutes, Heidenger and Williams of Carson High, who both threw a difficult and fancy field goal apiece.

Carson High easily defeated the Plutes by far superior team work, with a score of 36 to 21.

After the game, dancing was indulged in until 12 o'clock.

Preps. to Play Goldfield High.

On next Friday night the Goldfield High School will play a Basketball game with the Preps in the "gym." Goldfield now has one of the largest high schools in the State and it is to our interest that we treat their delegation to a royal welcome.

Show them that the U. of N. is a real university and expects Goldfield High to be well represented here next semester.

Have you noticed the young men of the Junior class, going about with mysterious looks on their faces? If not, then watch how they behave when at their table in the Dining Hall during meal hours. There's going to be "something doing."

The last few days have been glorious days—for "queening" as evidenced by the number of "cuts" during the afternoons. From the Seniors down to the Preps, it has shown itself in many aggravated forms—even the Dining Hall steps have not been immune from this contagious disease, for one nice morning this week, a barrel was found reposing peacefully alongside a strange looking gate which had somehow wandered in during the night.

List of Graduates as Registered.

The following students have fulfilled the registration requirements for regular Senior standing:

Wallace D. Alexander
Clayton A. Bennett.
Donald Bird.
George Curnow.
Lydia Colyer.
Irene M. Conkey.
Helen Fulton.
William H. Goldsworthy.
Lulu B. Hurley.
Dudley D. Homer.
Hazel Larcombe.
Margaret E. Mack.
J. A. Miller.
Ernest D. Mack.
Audrey Ohmert.
Dorothy Parker.
Maude Sawin.
Nick Rossi.
J. E. Sears.
S. Yamauchi.

Military Schedule.

The following schedule of drills is

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THE POLICIES TO BE SOON ADOPTED

President Explains New Faculty Policies and Plan of Junior and Senior Colleges.

At yesterday's general assembly Dr. Stubbs explained the policies that the faculty will enforce hereafter in regard to students backward in their work. He also explained the new system of junior and senior colleges that will go into effect in 1911. By the new arrangement that will commence at that time the senior and junior classes will constitute the senior college, and the under classes the junior college. A student will be permitted to enter the senior college, under the title of university associate, when he has made up all matriculation deficiencies, if he had any, and all the prescribed work of the first two years of college. Upon leaving the junior college he will be presented with a junior certificate, stating that he has completed two years of university work. This will be a good thing for those who cannot come to college for more than two years. The policy of having junior and senior colleges marks a step of advancement in the life of our university. It is undoubtedly fine, and has been tried with great success at several universities of the United States, where the Junior college requires of a student to complete his prescribed work, and the Senior college gives him a chance for much elective work, thus making a very elastic course.

The policy in regard to backward students as stated by Pres. Stubbs, is good—theoretically. The only question in regard to it is its application.

The sentiment of the students in general at present is that the faculty did not apply this policy properly or fairly in the case of a sophomore dismissed last week from college. In other words all the students, especially the university men, are saying that the sophomore in question did not get a square deal. This is the topic under discussion among university students at present, and the dismissal of the student has caused rancor in the hearts of Lincoln Hall men, who knew that student best.

The faculty, according to their policy, will dismiss a student who cuts his classes, neglects his work generally or gives so little attention to his studies that he fails in all of them, and they will do so with perfect right; this none can dispute. But in the case of sophomore dismissed, the above does not apply. Every Lincoln Hall man knows that he applied himself to his work at all times more diligently than any other Lincoln Hall man. They know, too, that he was working his way through college; that he arose long before daybreak to earn money to put himself through school, and that late into the night he applied himself faithfully and persistently. He was a plunger, he did not cut his classes, neither did he waste his time in the various time-wasting pursuits to be found outside of college. True he played on the 'varsity Rugby team the whole season, and was the chief factor in giving this institution a wider advertisement and better reputation for clean, manly sportsmanship than it ever had before. If during the football season he was so low in his work as to endanger him in failing in it, why did not the faculty then prevent him from playing football and make him apply himself to study? He played the whole season. He has been told that he may come back next semester. Is it that he may then again make a reputation for the university for manliness and good sportsmanship, to be again dismissed when the football season is over for failure in class work?

The sophomore in question was just the sort of man a university needs, an honest, manly, persistent plunger, who besides was working his way through college, faithful to himself and to his studies.

His reward was dismissal from the University. The verdict of the student body is that the faculty has made a mistake and in the practical application of a fine theoretical policy, has failed.

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The Student Record

Published Weekly During the Collegiate Year by the STUDENTS OF THE UNIVERSITY OF NEVADA

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Entered as second-class matter at the Postoffice at Reno, Nevada, under the Act of Congress of March 3, 1879.

COLLEGE MEN ELEVATE POLITICS, MANY DECLARE

Two Cabinet Members and Ex-President Eliot Favor Educated Men in Public Life.

Prominent men of the United States go on record as favoring the college man in politics, in interviews secured by the Yale Daily News. Among the men quoted are Ex-President Charles W. Eliot of Harvard, Secretary of the Navy Meyer, Secretary of War Dickerson.

Ex-President Charles W. Eliot of Harvard says:

"It seems to be perfectly obvious that the college graduates raise the general tone and temper of political action, the reason being that a prolonged education, as a rule, increases the recipient's sense of honor, sense of public duty and desire to be serviceable."

Secretary of War Dickerson says:

"As to the influence of the college men in politics and whether or not they raise the standard of politics, it seems to be an indubitable fact that they are a strong factor in the control of public affairs; that their influence has increased in late years, and that it will continue to increase in greater ratio."

Have Played Great Part.

The secretary traces the activity of the college men in the great affairs of the country from the signing of the Declaration of Independence—of the signers of which twenty-seven had collegiate training—down to the present Congress, with its 69 per cent of college graduates, as compared with 54 per cent in the Thirty-seventh Congress, to prove his point that the influence of the college men has steadily advanced until it has become preponderating.

Secretary of the Navy Meyer, in his opinion, says:

"All the big positions in the country are being filled in these days by the college-bred men. All the great projects are in charge of the college-bred men. In fact, for the last eight years the college-bred men have been gaining more and more power in every sort of political and business field."—Daily Maroon.

Brilliant Thoughts.

Andrew Carnegie's advice to young men.

1. Never enter a barroom; nor let the contents of a barroom enter you.
2. Do not use tobacco.
3. Concentrate. Having entered upon a certain line of work, continue and combine upon that line. It is dishonest.—Ex.
4. Do not shirk; rather go beyond your task. Do not let any young man think he has performed his full duty when he has performed the work assigned to him. A man will never rise if he acts thus. Promotion comes from exceptional work. A man must discover where his employer's interests lie and push for these. The young man who does this is the man whom capital wants for a partner and son-in-law. He is the young man, by and by, who reaches the head of the firm.
5. Save a little always. Whatever your wages may be, lay something by from them.
6. Never speculate. Never buy stocks or grains on margins.
7. Never endorse. When you enter on business for yourself, never endorse for others. It is dishonest. All your resources and all your credits are the sacred property of the men who have trusted you. If you wish to help another, give him all the cash you can spare. Never endorse.

Expanding.

We'll have to move this summer; Our flat is cozy and dear, But the baby's growing much too big To sleep in the chiffonier.

Cleveland Leader.

Fun

Prof. in Botany—Define tree.

Remmer—A tree is a branched structure which a fellow ascends when he is called upon to recite, and is not prepared.

Prof.—You may come down, sir.

She—Oh, George, you've broken your promise.

He—Never mind, I'll make you another one.—Ex.

Uncle—Now I'll learn ye to milk the cow.

Nephew from city—"Oh, Uncle, I'm kinder 'fraid of the cow; couldn't I learn on the calf?"—Ex.

Our eyes have met,
Our lips not yet;
But, Oh, you kid!
I'll get you yet.—Ex.

He—They're going to toast the football players tomorrow.

She—Oh, now I understand why they call it a gridiron.—Columbia Jester.

Irate Customer—Say this is a scab clock.

Jeweler—What's the matter with it?
Irate Customer—It won't strike.—Yale Record.

Miss Nebeker—Prof. Ball, is a rooster an animal?

Prof. Ball—No, Miss Nebeker, a rooster's a bird, a hen's an animal.—Student Life.

"Is that what you call a first-class newspaper man?" "I should say so. When the end-of-the-world scare was at its height he had two editorials written—one to publish if it did come off, the other if it didn't.—Ex.

No Exception to the Rule

Silicious—"Do you believe there is honor among thieves?"

Cynicus—"No, they are just as bad as other people."—Philadelphia Record.

She—Confess, now, that you would like to seew oman voters at the polls.
He—I should, indeed. Either of em, north or south.—Illustrated Bits.

Clancy—O'm after a ticket ter Chicago.

Ticket Agent—Do you want an excursion ticket; one that will take you there and back?

Clancy—Phat's the sinse of me payin' ter go ther an' back when O'm here alriddy?—Hotel Register.

She—Idon't see why you should hesitate to marry on \$3000 a year. Papa says my gowns never cost more than that. He—But, my dear, we must have something to eat. She—(petulantly) Isn't that just like a man. Always thinking of his stomach.—Boston Transcript.

"The Daily Californian" recommends "taxation without representation" for in a recent editorial it was against a proposal made by California co-eds to have women on the Executive Committee of the Associated Students.

About 200 graduates of Stanford have failed to respond to various requests sent out from the registrar's office asking for information in connection with the "Stanford Ten-year Book." Efforts will be made to locate those alumni whose addresses are at present unknown.

Stanford's eight-ored shell, purchased from Cornell, was used as a target by some vandal for a 22 calibre rifle. The several holes drilled in the shell will not ruin the boat as it can be repaired fortunately.

Economy.

A contemporary quotes John D. Rockefeller in telling this story:

"Marty, I believe I'll go out and git ical. They remind me of Mrs. Long. One day Mrs. Long's husband said to her:

"Marty, believe I'll go out and git a few apples in th' orchard."

"Well now you be mighty keertful. Si," the wife cautioned. "Don't you dare pick none but the bad 'uns."

"But spose they ain't no bad 'uns, Marty?"

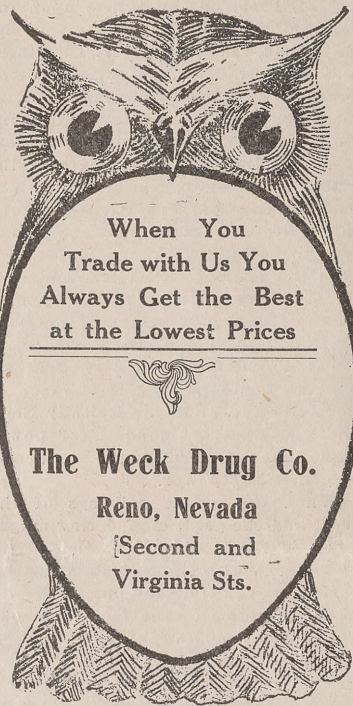
"Well then ye'll jest nacherly have t' wait 'till some of them goes bad," the old woman snapped. We cain't 'ford t' eat good sound fruit when it's wuth three cents a bushel!"

Oh! You Judge!

A student passing Fears' room in the wee sma' hours of the morning heard a tender, passionate voice and paused to listen. "I love you more than all the world. When we are alone and I caress you with my lips it seems as if life were one long happy dream. Oh, how could I do without you." The listener could stand it no longer, so he placed his eye to the keyhole. He beheld Fears gazing lovingly upon a long black cigar.—The Idea.

Queen of Spain—Moi Gracia! The baby has a stomach ache!

Lady Chamberlain (excitedly)—I'll go call the Secretary of the Interior.—Ex.



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Leave University eight, twenty-eight and forty-eight minutes past the hour.

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ENGINEERING CLUB HEARS LECTURE.

(Continued From Page One.)

grizzlies or racks, which exclude chips, twigs and other floating or rolling matter from the pipes. Gates are installed also, controlling the supply of water to the pipe lines and wheels. In case of accident, or if for operating reasons water is to be shut off one or more pipe lines, these gates are used and the water in the flume is allowed to continue flowing. It takes 35 minutes for a chip to float down from the head dam to the penstock.

The pipe lines at Farad—two in number, 6 feet in diameter—are built like elongated barrels, of redwood wood staves, and are banded around or hooped with round steel bands spaced closer and closer as the pressure due to the head of water increases.

Provision must be made at the penstock for "spilling" the entire quantity of water coming down the flume in case the water is shut off the wheels, and this is done by simply leaving at one side of the flume one low board for a distance of a couple of hundred feet, and by providing means for the spilled water to return harmlessly to the river.

At times of light load on the plant the spill is often considerable, but when the load is heavy all the water is necessary to drive the wheels, and the spillways are dry.

To obtain accurate knowledge in the power house of the height of water in the penstock a float gauge perfected by one of our operators, who is also a student at this university, has been installed at each plant.

In case the plants ran on stored water, this waste could not be allowed to go on from day to day, and the ditch tender would be required to allow only enough water to enter the flume at the head to meet the requirements below.

The water which passes through the pipe lines enters the wheel housing and finds its exit therefrom through guides and the vanes of the turbines, and through the draft tube to the river.

In passing through the wheels the water parts with its energy, causing the runners to revolve on their shafts, which protrude through the casing, usually at both ends.

A generator, "rotor," is coupled to this same shaft, and in rotating changes the mechanical energy into electrical.

Where the machine which we wish to drive is within the power house, as is the case at Floriston, it would take the place of the electric generator, but where the power application is to be made miles away, the shaft is electrically extended this distance, and delivers the power easily subdivided at different speeds and quantities, by changing the energy into electrical and then reconverts into mechanical energy by motors at the points desired.

At Farad two Westinghouse three-phase, 60-cycle, 500-volt generators of 750 K. W. rating are driven by two Smith-Morgan twin turbines of 1200 H. P. each.

As the energy at 500 volts is not commercially capable of transmission to any great distance, it is necessary to change the form of energy of low pressure and great quantity to one of high pressure or tension and low attendant quantity of current. That is, we reduce the current from 2000 amperes to 45.5 amperes, but raise the pressure from 500 to 23000 volts, the product of volts x amperes remaining the same.

Line losses depend upon the current, and are in reality proportional to the square of the current, so that the necessity for making the current low is at once evident.

With the alternating current this "stepping up" is accomplished by stationary apparatus, transformers, and after transmitting our energy with but slight loss to the point desired similar transformers "step down" the energy to a safe and usable pressure.

In this way are driven the huge Reider pumps in the C. & C. shaft on the Comstock, which lift six and a half million gallons of water per day a distance of 400 feet. Discharging into the Sutro tunnel this water is carried away into the Carson river.

Altogether the power company transmits for use in both power and lighting about 7000 H. P.

At Fleish we have only one water wheel and one generator, but we have an effective head of 126 feet and obtain with less water an output of 2600 H. P.

The water wheel was made by the Platt iron works and the generator is a Westinghouse three-phase, 2300-volt, 2000 K. W. machine.

At Washoe we have two Dayton-Globe Iron Works twin turbines driving under 88 feet head two Stanley

750 K. W. generators, three-phase, 2300-volt.

Reno has the lowest head, only 41 feet, and here a combined unit, wheel and generator, manufactured by the Allis-Chalmers Co., supplies 1200 H. P. at 4000-volt, three-phase.

All these plants are connected to the high energy lines, and to make parallel operation possible the speeds of the wheels must be kept constant at all times.

Speed governors, which are connected so as to vary the amount of water passing through the wheels, keep the speed constant with a half a per cent or so, irrespective of the load or the fluctuation of the load.

So much for the physical side. As to operation, much can be said, and when the service is poor and the lights go out and motors stop much undoubtedly is said.

To keep things running smoothly and continuously requires, first, good men; second, good apparatus, and, third, good weather.

You will notice that I put good men first for, with the best of apparatus in incompetent hands, it is but a short time until the machinery is ruined and loses its efficiency.

On the other hand if you have competent, reliable men in charge they can make indifferent equipment do good service.

Having good men and fairly good apparatus, the only thing beyond our control is the cold weather, and we have to make the best of that.

In the operation of our system the force is divided and subject to direction of the various officers as follows:

- General Manager.
- The Engineer.
- Assistant Engineers and Superintendents of Electricity, Gas and Water.
- Clerical force in the office.
- Power house and substitution foremen.

Operators, ditch tenders and so on down to common laborers.

The General Manager is responsible to the stockholders and directors for the entire management of the system.

It is his business to meet the public, make rates and sign contracts and through his clerical force keep the records of all the business.

He is the man who gets all the complaints when service is poor, but also has the satisfaction of taking some of the credit when particularly good records are made.

The Engineer is the right hand assistant to the manager and is responsible to him for the operation and maintenance of the system, keeping him in daily touch with all important happenings.

The Engineer and his assistant are called upon to make estimates of extensions and betterments besides his regular work of overseeing operation and maintenance.

Through his Superintendents the Engineer keeps posted as to everything that goes on and confers with them when any work of importance is undertaken.

In our case the Engineer must be both an Electrical and Hydraulic Engineer, and has, besides his assistants, three Superintendents and several electricians reporting to him.

The Superintendent of ditches and flumes looks after the dams, head gates, ditches, flumes and penstocks, and has a number of men at work at all times.

A repair crew is kept busy strengthening ditch banks, raising low places in the flumes, taking dam overhanging banks above the canals and maintaining all hydraulic work in the best possible condition.

In winter when the temperature drops down to zero or below, and the River is full of mush or anchor ice, this man leads a strenuous life and gets but little sleep.

For instance during the late cold snaps it was necessary to have more than forty extra men at work in his department alone.

With the river running full of mush ice, it was expedient to have as little as possible enter the flume, and two men stayed at the head gates day and night fighting the ice at that point.

A great deal however did get into the flume, and as much as could be was dumped into the spillway when it reached that point. The racks cause a great deal of trouble at times of ice for they clog up tight and shut off the water from the wheels.

Two were on shift at each of the plants—stood at racks day and night raking without stopping, their rake handles coated with ice and their mittens frozen stiff. In the midst of this power house trouble, word reached the Superintendent that the water supply ditches for Reno were freezing over.

More worry, and a gang of men armed with ice picks and chisels broke the ice in the ditch and kept the water running.

In case of heavy rains or sudden thaws, mud slides cross the canal, taking out sections of flume or filling the ditch, which promptly runs over and cuts out a section of its bank.

Then, too, it's work night and day until the break is repaired and water is again turned into the ditch.

Even in the finest weather the ditches are in danger for spirrels and gophers tap the ditch through the bank and a small hole soon enlarges and results in a break.

Such repairs in the long Summer days are quickly and easily made.

The Electrical Superintendent, whose duty it is to keep the power houses running and the lines clear, has plenty to do even in a well maintained system when the weather is good, working on line extensions, new business and general maintenance.

When snow and wind storms break upon us and most people keep indoors this man has his troubles. Lines go down cutting off the power and he must get men out day or night to find and repair the trouble, putting the power back on with the least delay.

Linemen wrapped up to their ears mount saddle horses and, with a repair insulator or two and a coil of wire and a portable telephone ride the line, making temporary repairs and reporting off when their respective sections have been inspected.

On the larger systems in California, a regular daily line patrol is kept up but our dry Nevada climate saves us this extra expense.

In the fall of every year a repair crew goes over the entire H. T. line and puts it into excellent shape for the winter, replacing insulators, and stubbing all weak poles or putting in new ones where needed.

The lines, however are not the only cause of trouble, for often without a warning, generators burn out and transformers ground or break down, and these must then be repaired under high pressure, so that power may be again put back on the lines.

With all these things to do the Electrical Superintendent, who also looks after all local lighting and pow-

er in Reno, has plenty to occupy his time.

He has reporting to him either directly or indirectly the power house foremen and operators, linemen and electricians, lamp trimmers and meter man here in Reno.

The substation operators and local electricians in Virginia, Carson and other points report to the Engineer and their local manager. These local managers report all business of course to the General Manager.

The Superintendent of Water and Gas Supply here in Reno reports to the Engineer and to the General Manager, who happens to be an expert in the gas business, both in construction and operation.

This Superintendent looks after the water and gas works and all mains in the streets, and has operators and foremen responsible to him.

In this way with work subdivided each man, knowing definitely what he has to do and to whom he is responsible, the work on the system goes on without friction and delay.



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NEWS OF ALL THE COLLEGES
(Continued From Page One.)

will be issued bearing the heads of Nero and his mother.

The Senior class of the University of Illinois may present their University with a celebration urn. This vessel is to be made of masonry and metal, and will be 6 or 8 feet in height by 10 or 12 feet in diameter. Its purpose is to establish a permanent place in which to build fires for the celebration of victories by the students on the university campus.

The members of the battalion of cadets at the University of Idaho are to engage in a military athletic tournament soon. The companies will compete in squad and platoon drill, fence climbing and other such stunts. There will be a race in which two men from each company are entered; these men run over a course and deposit certain pieces of their accoutrements and clothing at specified points on the course, returning to stop and put on their accoutrements as they come to them. Another feature of the contest will be a tug of war.

HAPPENINGS ON UNIVERSITY HILL

(Continued From Page One.) announced for the week beginning March 7, 1910.

Monday—Company extended order.
Tuesday—Same.

Wednesday—Battalion parade and guard mounting. Blue uniforms. In guard mounting, both companies will be marched on as details of the new guard.

Thursday—Normal attack by companies.

Friday—Attack on varied ground. All non-commissioned and commissioned officers will study carefully their duties in extended order. Company commanders will designate privates to act as lance corporals, trying out all cadets of the freshman class.

David Garrick

David Garrick was born one hundred and ninety-six years ago. People said of him: "He never had his equal and never will." He must have been wonderful, for when he died, with all the "pomp and circumstance" that England could bring to bear, he was given sepulchre in Westminster Abbey, as Shakespeare's best interpreter. That was an honor sure enough. To have a place with the kings and queens, great statesmen and soldiers; with the learned and honored among Englishmen—the picked few for a thousand years, and finally to have his couch made beside that of Shakespeare—he must have acted well his part. He wrote some comedies, but nothing to stamp his as an exalted genius. It was his gift to give the most expression to high thoughts when set to words and to restore to the belief of men that there is no other such music as the human voice, no other such enchantment as can be wrought by the perfection of eloquence.—Goodwin's Weekly.

College Aero Clubs to Unite.

A convention will be held during Easter week for the purpose of forming an intercollegiate Aeronautic Association. The convention will be attended by the best aeronauts of the country. The Wright brothers, Chanute, Maxim and others will be asked to speak.

The convention will decide upon the place and particulars of this year's aviation meet. The final steps, in affiliating with the Aero Club of America will also be taken.

Practical Christianity.

"On behalf of the sewing circle of this church," said the pastor at the conclusion of the morning service, "I desire to thank the congregation for 57 buttons placed in the contribution box during the last month. If now the philanthropically inclined donors of these objects will put a half-dozen undershirts and three pairs of other strictly secular garments on the plate next Sunday morning, so that we shall have something to sew those buttons on, we shall be additionally grateful."—Harper's Weekly.

Forgot the Play.

A New York boy brought home with him from college a friend who had not visited the metropolis for ten years. After a day of sightseeing the two were walking down Broadway near Twelfth Street. "Oh, Jack," said the guide suddenly, "You remember Grace Church, don't you?" Let's see," replied the other with signs of interest, "what company was she in?"—Goodwin's Weekly.

Little Bobby's Ma—Josiah, Bobby has been using slang again today.

Little Bobby's Pa—Now see here kid! You've got to cut it out! I won't stand for it! See?—Ex.

INTERSCOLASTIC MEET TO BE HELD AT STANFORD

Board of Governors Plan for Annual Event—Discus Throwing Added to Contests.

Provided the plans of the Board of Governors work out, the greatest aggregation of preparatory school athletes ever seen on the Pacific coast will be gathered at the Interscholastic meet this spring. In addition to 1912 schools in California, notices have been sent to Portland, Tacoma, Seattle, Reno, Tucson and Phoenix High Schools, Portland Academy and the Hill Military Academy, also of Portland. The interest manifested in the annual meet is becoming greater each year, and within the last few days applications for membership have been received from five secondary schools which, up to the present time, have refused to enter the association. To overcome objections against the meet urged by the faculties of several schools the resolutions pertaining to pledging and rushing, recently adopted by the fraternities, were incorporated in the notice.

In the circular a query was made as to how the establishment of a Stanford Interscholastic Tennis Tournament would be received by the secondary institutions. If the reply is favorable an annual tennis contest will be inaugurated. The plans for such an event are not as yet completely formulated, but it is probable that the matches will be played on the same day as that on which the field meet is held. One single and one double match will be played, the winners being rewarded with gold medals, while the runners-up will receive recognition in the shape of silver medals.

A concession has been obtained from the Southern Pacific in regard to transporting the men. Full fare is to be paid coming to Palo Alto, but a one-third rate will be given to the athletes on the return trip.

The preliminary heats of the track events will, as usual, be run off on the Friday preceding the meet and the finals on the afternoon of Saturday, April 23. An opportunity to view a new sort of competition will be given this year through the addition to the list of events of the classic sport of hurling the discus. This event is being introduced in all the large meets of the country, and it was in answer to a popular demand that the innovation will be made here. The place winners, however, will score no points in the meet, but will be presented with suitable medals.

Copies of the constitution and by-laws of the association and entry blanks will be sent out about March 20. The customary entrance fee of 50 cents will be charged for each athlete taking part in the meet.—Daily Palo Alto.

PRESIDENT WHEELER IS HONORED BY GERMANS.

German Ruler Invites Californian To Take Pleasure Trip on North Sea.

President Wheeler of the University of California has been honored with an invitation from the Emperor of Germany to accompany him on a pleasure trip on the North Sea. The start is to be made on March 7, but owing to the previous arrangements of President Wheeler, to return to America on February 26 in order to be present at the Charter Day exercises of the University of California, he was unable to accept the invitation. President Wheeler has been honored with invitations to speak in many German Universities during his visit, and most of these also he was unable to accept.

President Wheeler delivered his farewell lecture as Roosevelt professor at the University of Berlin on last Saturday. At its conclusion the students presented him with a silver cup, a reproduction of the one in the famous collection at the museum at Hildesheim.

Privy Councillor Schmidt of the Ministry of Education, in a brief address, expressed the great satisfaction felt over the work which the American educator has done in Germany.

Schmidt also announced the proposed organization of a society, the object of which will be to promote the study of American subjects. The society will be known as the Wheeler society.

President Wheeler will leave March 1 for Oxford, England, and thence return immediately to California.—Daily Californian.

The Joys of Being a Dog.

A Dutchman, addressing his dog, said:

"Yoh was only a dog, but I vish I was you. Ven you go mit your bed in you shust turns around dree times und lay down. Ven I go mit de bed in

I haf to lock opp de blace, und vind de clock, und put de cat outd und undress mineself; und my frau she vake opp und scold, und den de baby vakes opp und cries und I haf to valk him mit de house around; den maype ven I gets myself to bed it is dime to get oop again. Ven you get oop you shust stretch yourself, shake your neck a leedle und you vas oop. I haf to light the fire, put on de keddle, scrap come mit my vife already und get my breakfast. You blay around und haf plenty of fun, I haf to vork all day und haf plenty of drubble. Den ven you die, you vas dead; ven I die I haf to go to hell yet.—Ex.

Can Do a Few Things

"I am not much of a mathematician," said the cigarette, "but I can add to a youth's nervous troubles, I can subtract from his physical energy, I can multiply his aches and pains, I can divide his mental powers, I can take interest from his work, and discount his chances for success.—Ex.

On the Wrong Side.

The teacher had gone back to the brave days of old for his reading selection for the day and read the story of the Roman who swam the Tiber three times before breakfast.

One of the boys giggled when the story was finished and the teacher turned to him.

"You do not doubt a trained swimmer could do that, do you, James?" he asked.

"No sir," answered James; "but I wondered why he didn't make it four and get back to the side his clothes were on."—Ex.

Insist on the "John Hancock."

When a man tells you his word is as good as his bond it is a pretty sure sign that you ought to insist on having a bond.—Chicago Record-Herald.

Panacea for Unhappiness.

Every man thinks he knows how he could make a lot of people happy with some other man's money.—Chicago Record-Herald.

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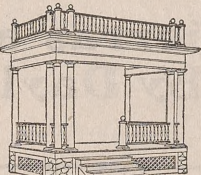
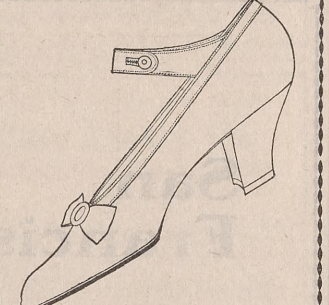
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