

Vol. XXI

UNIVERSITY OF NEVADA, RENO, NEVADA, JANUARY, 27, 1914

Number 2

Head-Light Test Tonig

Hundreds Of "Safety First" Visitors Welcomed By Old Nevada

'SAFETY FIRST" THE HEADLIGHT

Conflicting Legislation Source Of Headlight Trouble

EFFICIENT NITROGEN LAMP

Efficiency of the Reflector Important in Lighting Track

By Prof. J. G. Scrugham Since the safety of the traveling public and of men engaged in the transportation industry is in a certain measure dependent upon the use of a proper headlight for cars or locomotives, it seems proper to discuss this important subject at an Industrial Safety conference. Twentyeight states have adopted legislation embodying seventeen different specifications regarding the use of headlights on locomotives. The enlightened state of Georgia requires a 30% watt arc lamp with a 23 degree reflector, while in the adjacent state of Mississippi, an 18 degree reflector is deemed necessary. In South Caro lina the light must measure 10,000 candle power with a reflector. Nebraska requires a light that is sufficiently strong to distinguish an object the size of a man at a distance of 600 feet. (Whether the man is to be a white man or a black man, dressed in white or black clothes, etc., is not specified.) In five states a similar law is enacted in which the distance is set at 800 feet. In Iowa it is made to specify discernment of a man lying the Y. W. C. A. basket ball rally last down at a distance of 1100 feet. Several states requires a light of 1500 candle power without a reflector, while Missouri requires 1500 candle power with the reflector. It will be noted that many of the above laws are of a conflicting character, especially as the strongest practicable headlight manufactured at present delivers less than 1000 mean spherical candle power without a reflector.



Nevada Girls In Basketball

One of the Team Urges the "Other Girls to Help by Being Present When They Practice

More activity than was characteristic of the early season has been evidenced by the co-eds generally since Wednesday afternoon. Since the rally more of the girls have shown the players that they are behind the team by appearing in the gym during practice. One of the prominent members in speaking to a Sagebrush representative of this interest of the "other girls," said: "It does the players a whole lot of

good to have some of the girls in the gym during practice. When we are Miller as "The Gardener's Daughter," there alone we just get the feeling that we are playing for ourselvesthat no one cares whether we win or lose. Of course if we win everybody makes a whole lot of us, but if we lose well then they say we might have tried harder. But if there are some of the other girls in the gym to see that we are working our hardest for a winning bunch from Nevada this year we feel more as if we were working for the university and not just for our own selves." The varsity basket ball team scheduled to play Stanford on February 19 at Stanford and to play the U. C. women at the University of California on February 21. This is Wom- she sleeps into the form of a beautiful en's day at California and Nevada was especially urged to play there on that day if possible. The men's team will also be in that part of the country at the same time and so both teams are very well satisfied with the arrange ments as made. The girls have great hopes for a game with the Chico Normal team at Nevada later in the season and also a return from the U.C. girls along in the latter part of February or the first part of March. Also, if the San Jose Normal can do so, they will play at Nevada later in the season. Out for the varsity team this season are: Francis Smith, Dorothy Bird Lisle Rushby, Edith Taylor, Florence Scott, for the positions of forwards, Ruth McKissick, Ruth Woods, Lela White, Ethel Brown; for the positions of guards, Georgia Young, Lucile Gallagher, Gertrude Shade, Agnes Constable, Florence Nelligan, Margaret (Continued on Page Four)

Successful Cantata Will Be Taken to Carson City on Evening of February 6

"Rose Maiden" Dr. Max Adams

Twice Winner Phi Kappa Phi

The "Rose Maiden" made its sec ond great hit in Reno last Friday ight. The university choral club unler the directorship of Dr. Charles Haseman deserves much credit for the excellence of the production and too much cannot be said in praise of the accompanimists, Miss Maud Denny and Mr. Ernest Corris, who ,presiding at pianos at opposite sides of the stage, proved the worth of that instrumen t as a substitute for an orchestra. Mrs. Wagner, as "Roseblossom," Mr. Fergusson as "Spring," Miss Ruth ar.d M1. Louis Rese as "The Forester. took the part of the elves. The perscnnel of the cast was largely the same as in the original production given the night before commencement last May. Applause followed each number as rendered. The story that runs through the "Rosemaiden" is that the queen of the flower fairies, weary of a life of unbroken calm, prays of the newly returned spring that he will bestow upo nher also the gift of love that he bestows on man. He warns her of the risk she runs, but finally yields to her entreaties by changing her while girl. Under the name of Roseblossom she wanders through the world to find the love that she seeks, and meets with a girl who, having been betrayed and deserted by her lover, loses her senses and dies broken-hearted. But andeterred from her search Roseblossom becomes the wife of a forester, with whom she lives for a time in such perfect happiness that she cannot survive his death. The elves bewail the fate of their queen, and curse ove as fatal to peace and happiness One of the great hits of the evening was scored by Tom Walker in his "The Sleep of Even." Altogether the cantata was so successful hat Director Haseman has decided to take it to Carson City on February 6 and made a trip to that city during the last week end to complete arrangements. The cantata was given to the public of Reno and Nevadans visiting at

Annual Convention May Be Held in San Francisco During the Fair-1915

At the close of the mid-year meeting of the American Association for the Advancement of Science which was held during the holiday recess at Atlanta, Georgia, delegates from the various local chapters of the national fraternity of Phi Kappa Phi met Jan. 2, 1914 at Hotel Kimball, Atlanta for the triennial convention of the society. The delegate from the Nevada chapter was Professor Maxwell Adams, who had been elected a delegate to this convention by the local chapter at the December meeting just before he left on his European trin. Last weel did the solo work and the Girls' Glee the proceedings of the convention was received by Dr. Hartman, secretary of the Nevada chapter. In his report we learn that Professor Adams was made chairman of the nominating committee of the convention and that Dr. Haseman has been elected chairman of the board of regents of the national organization. Since it is one of the duties of this board to decide Continued on page 4) in San Francisco in 1915, during the Panama exposition. From the report From the report received one learns that the fraternity has had from its inception a steady forward growth. Organized in 1897 the Phi Kappa Phi has established and at the present time maintains ten chapters of the fraternity. Nine of these chapters fraternity. Nine of these chapters were represented at the convention. The chapter at Pennsylvania State college is the largest and the Delaware chapter is the smallest in the organization. At the convention petitions for several new chapters were filed, and it seems probable at the present time that several of these petitions will be granted. In the instititions will be granted. In the insti-tutions where the fraternity has been established membership has been regarded as a coveted prize and the organization has been a potent factor in fostering sound scholarship and a zeal for learning. Chapters have also conferred a public service by introducing men of note as speakers on occasions. The Nevada chapter was installed in 1912 and the installation

(Costinued or Page Four)

REGENTS BACK Regents Support Cooperation Of College And Business

GEOLOGIST WANTED BIG Prof. E. A. Howes May Return **To Control Extension**

Work

From reliable sources it has been learned that the president of the university and the board of regents are still working quietly to fill the positions of a head of the Mackay School of Mines and a man to take charge of the university extension work which comes under the agricultural department. In regard to the latter it is not definitely known whether or not Prof. E .A. Howes, who last year did a great deal of good work for the university, will return to Nevada. Prof. Howes is now principal of the Dominion agricultural school at Vermilion, Alberta, Canada, and it is rumored that he has been offered even a better position in the university of Alberta. His return to Nevada, therefore ,hangs in the balance, but the president and regents have given out that they are hopeful. There are no questions as to the qualifications of Prof. Howes to make him "just the man' 'to put in charge of the extension work of the University of Nevada.

Relative to the mining school the president and regents are anxious to get some man trained along technical lines. It is rumored that an eminent geologist may accept the position. Columbia school of mines is the pet of John Hayes Hammond and it is due to him that that eminent college has gained much of its popularity. In their quest for a man for the position of head of that important department here, the regents have been asking themselves the question, "Why not have a man of nation-wide fame as a mining engineer or geologist to make the Mackay School of Mines his pet?" The regents seem to be rather partial toward a geologist to take the work because of the evolution in the mining profession. The time when the prospector can travel around with his burro and scratch the surface of the ground to find a mine is rapidly drawing to a close. Present day min-

what the traveling public, railroad management, and employes all want is that light which is most conducive to the safe operation of trains. The problem is how to obtain it. The efficiency of a head light is primarily dependent on the reflector or lens used, and, secondly on the volume or power of the light itself. The reflector may multiply the horizontal candle power of the head lamp any

(Continued on page 8) Majestic Theatre COMING FRIDAY, JANUARY

30 FOR THREE DAYS A Motion Picture Version of Bulwer Lytton's Historic Novel

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(Continued on Page Four)



Page Two

January 27, 1914

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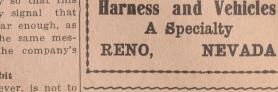
tirely automatically just as do the bloc ksignals along the track of the Southern Pacific line which passes through Reno.

to the general subject of safety of at this great exposition.

within its jurisdiction until it passes block will automatically signal that on to another section. The whole the speaker has gone far enough, as thing is electric-there is a most in- it has often signaled the same mestricate system of batteries and wiring sage to engineers in the company's

#### **Dallas** Exhibit

The gymnasium, however, is not to contain all of the exhibits that the university has to offer the public "Next in regular order will be an during the period of the industrial exhibit which is to be arranged by safety conference. In the agronomy Prof. L .W. Haseman of the depart- laboratory on the second floor of ment of physics at the university. The Stewart hall, Prof. Knight of that demain subject which the exhibit is to partment, who will be in charge of the illustrate is the discharge of elec- Nevada exhibit at the corn show at tricity through gases. It will include Dallas, Tex., is giving the Nevada pubcompletely equipped wireless ap- lic the opportunity of seeing the agparatus and other apparatus related ricultural exhibit of their own state



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The following is a draft of the constitution drafted during the last semester by the Nevada Tennis club: Constitution

Tennis Club

#### ARTICLE I

The name of this organization shall be the University Tennis club. ARTICLE II

The officers shall be elected annually at a regular meeting during the month of May.

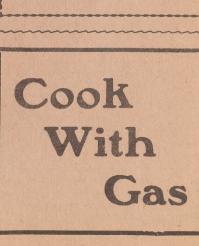
ARTICLE III The officers shall be: President. vice president. secretary-treasurer, whose duties shall be as customary. ARTICLE IV An administration committee consisting of the three officers named above, and two others selected by the ARTICLE V

The duties of the administration committee shall be to see that the courts are kept in first class condition, to settle all disputes, to arrange matches and tournaments.

#### ARTICLE VI

The dues of the club shall be 25 cents per semester. Faculty members who contributed towards the construction of the courts will be exempt from the payment of dues for five years.

Hot coffee, hot chocolate, beef boulion, at the Fountain, opposite the postoffice.





Rushby, Leila White, Dorothy essor who had been in residence a girl has won her "N" for the first half years. year ,according to a custom establishseason receive no special present. those who win their letter for three years are presented with a gold basby, Lela White, or Francis Smith time during the month of February. make the team which plays against the California universities this year they will be awarded with this token of athletic achievement.

#### MISS BLANEY GRADUATES

Miss Dorothy Blaney, the daughter of Mrs. Louise Blaney, secretary of Order of the Mystic Shrine. the agricultural department of the University of Nevada, graduated last Friday from eighth grade of the Orknown to many of the students on the corn show at Dallas, Texas. hill and the Sagebrush joins with them in congratulating Dorothy and ter Reno high school.

Bird, and Georgia Young. When a the university at least one and one-

The Phi Kappa Phi fraternity difed, she is given a little German N pin fers from the other national honor set with pearls. The money was fraternities in that its basis of memrised for this purpose during the last bership is broader than in the other footbail season by a series of feeds, societies. In Phi Beta Kappa memcandy sales on the bleachers, and a bers are selected from the classical cake sale at the Gray, Reid, Wright and literary students of the universistore. By these means the girls were ties. Sigma Xi takes its candidates able not only to raise enough money from those in pure and applied to give each of these players an N science. Tau Beta Pi chooses its rin but they have enough left to pro- membership from those in technical cure gold basket balls for any on the courses. In Phi Kappa Phi the frasquad who may win their letter for ternity is dedicated to the Unity and the third time this year. According Democracy of Education and is open to the custom above referred to, those to honor graduates of all departments who win their letter once are given a of American universities and colleges pin, winners of the letter in a second Eligibility to membership therefore rests upon scholarship and merit. The meeting for election to membership of new members for 1914 ir ket ball. If Ethel Brown, Lisle Rush- the Nevada chapter will be held some

#### IN THE SHRINE

university ,was installed at the Illus- of 32 held by their opponents. trious Potentate of the Karak Temple,

vis Ring school. Miss Blaney is well during the absence of the latter at the Nenzel, Beeson and Joinnie Dodd.

Get a cup of hot coffee and a ham to many on the campus and who is the Post Office.

morning. The Sophomore basket ball morning. The Sophomore basket ball team holds this year's interclass championship and ,seeking for more fields to conquer they went to Lovelock taking with them their efficient coach Lester Harriman '14. It is reported that Harriman, being a little more settled in his ways than his second year flock, made use of his time by looking into the irrigation problems of that section instead of wasting it after the manner of Sophomores.

straggled to the campus Sunday

The game, to use the language of the pepless ones who arrived Sunday morning, was "rotten." The time was "good," the dancing "great," the girls, "pretty and lots of 'em." But to return to the game :the Lovelock ers played in great form and for a while it looked as if the champions of the University of Nevada would finish "out of luck." There was ots of snap to the playing and it led to much to the playing and it led to much fouling and these situations Harrinan, who acted as referee, handled tclerably well. The game was played On last Saturday evening, Prof. in the Orpheum theater and was well Sanford C. Dinsmore, of the depart- attended. The Sophomores led at the ment of food and drug control of the end with a score of 50 as against that

Those who took the trip are as fol-Order of the Mystic Shrine, Amos Elliott will have charge of Prof. Knight's classes in agronomy during the absence of the latter at the Neurophic Cubbin, Hovey, Healy, Krummis, Jepson. Thos who played for Love-lock are: "Rusty" Fuss, his brother, Neurophic Cubbin, Hovey, Healy, Krummis, Jepson. Thos who played for Love-lock are: "Rusty" Fuss, his brother, Neurophic Cubbin, Hovey, Healy, Krummis, Jepson. Thos who played for Love-lock are: "Rusty" Fuss, his brother, Neurophic Cubbin, Hovey, Healy, Krummis, Jepson. Thos who played for Love-lock are: "Rusty" Fuss, his brother, Neurophic Cubbin, Hovey, Healy, Krummis, Health and Healthhealth and Health and Healthhealth and Health 'Rusty" sent his best to the university and Johnnie, who is we'l known

her mother. Dorothy Blany will en- sandwich at the Fountain, opposite employed in a bank at Lovelock, sent his regards.

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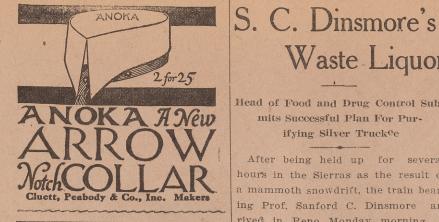
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Head of Food and Drug Control Submits Successful Plan For Pur-

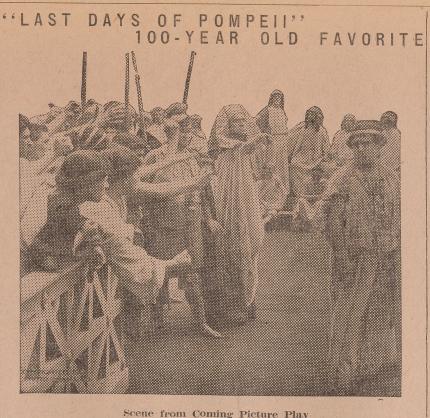
Waste Liquor

ifying Silver Truckee After being held up for several hours in the Sierras as the result of a mammoth snowdrift, the train bear ing Prof. Sanford C. Dinsmore arrived in Reno Monday morning week ago. Prof. Dinsmore was or his return from San Francisco where he appeared at a hearing before the California State Fish commission in regard to the dumping of refuse by the Floriston paper mills into the Truckee river. At this hearing a plan suggested by Prof. Dinsmore for the utilization of this refuse was adopted. For a long time there has been an agitation among the people who use the waters of the Truckee river below Floriston that the Floriston paper mills be prohibited from dumping the refuse from the mill into the river Growing out of this agitation a committee of Reno citizens was appointed cf Nevada consisting of Fred White and Sam Frank ,councilmen of Reno, fish commission, and Prof .Sanford times.

sity, went to San Francisco to represent Nevada at this hearing. The hearing was held in the offices of the California fish commission in the Mills building. The Floriston paper company was represented by Mr. Fleishaker and Mr. Louis Block or the company. At this hearing Prof. Dinsmore's plan was accepted by all parties concerned. The plan in brief

ollows: The refuse or waste liquor, as it is commonly called, is produced as the result of the action of sulphurous acid on wood chips. This acid dissolves all of the sugar substances, tar, pitch, etc. in the wood and forms a liquor known technically as lignosulphonate This is a very complex substance and very little is known- concerning it. The character of lignosulphonate varies with the different kinds of woodpine, cedar, fir, etc.-treated.

It appears that about 60,000 gallons of the lignosulphonate or waste liquor was emptied into the Truckee river every day and it is do to it that the water has a very disagreeable taste To get rid of this liquor in some other way Prof. Dinsmore suggested that the liquor be evaporated to a certain consistency (30 degrees Baume) in which condition it is admirably suited for road binder purposes. Laboratory experiments have shown it to be superior to crude oil in this capacity. By installing the necessary apparatus the company will evaporate these 60,000 Bookbinders gallons down to about 30,000 gallons, a daily output of what will probably



It is nearly a hundred years ago telling truth. that Lord Bulwer Lytton wrote "The her efforts to win his love with the to investigate the matter and to this Last Days of Pompeii", and during committee Prof. Dinsmore submitted all that time it has survived as one a play by which this poisonous sub- of the greatest romantic novels in the stance complained of could be con- world of literature, and still holds warted into a valuable by-product of marvellous fascination for hosts of the mill. A committee from the state readers. Mr. George Kleine has just produced a photo drama of the novel which will loubtless live for many Ed. Lunsford, city attorney, J. R. hundred years to come and be shown Meskimons, city engineer, Fred Shair, upon the screen ages hence as evimayor of Reno Gearse Wingfield, dence of the wonderful development George Mins, chairman of the Nevada, of, the art of photography in these of the art of photography in these Mr. Kleine's production was C. Dinsmore, of the department of made in Italy and visualizes all the food and drug control of the univer- most important incideiats of the story with vivid realisms. The heartrend ing tale of the great love of the blind flower girl, Nydia, for her handsome master Glaucus, and her terrible sur fering when she learns Ione has won his heart are all brought out with

Rivers

RENO

Elegant in all its appointmer

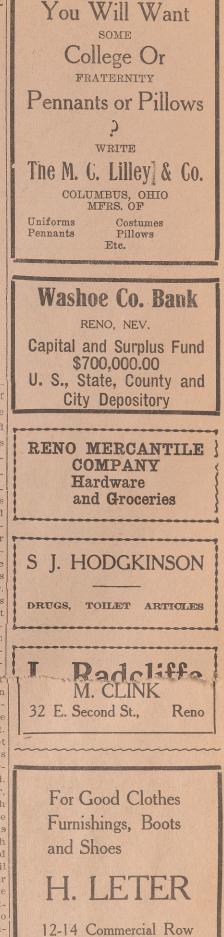
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The tragic results of use of the love philtre the wicked Abraces gave, and which destroys Glacus' reason, is dramatically illustrated. And the final episode showing the awful catastrophe of the eruption of the mighty volcano of Vesuvius with its clouds of ashes, flame and smoke, completely destroying Pompeii is reproduced with spectacular grandeur that is awe inspiring and impressive. Taken as a whole it is one of the most remarkable photo dramas that has ever been produced. Mr Kleine's production of "The Last Days of Pompeii" will be the attraction as the Majestic theater beginning Friday, Jan. 30, for three days with matinees. The seat sale for this engagement commences Friday mornng.

.... urage large numbers of young men to study engineering in school, and many of those who graduate emigrate to Canada or some of the English colonies to find employment French technical schools are not as well known abroad as the schools of Germany, and, indeed, are not near y as numerous or as largely attended. It is interesting to know, however H. J. GOS that France was the first to establish a school of civil engineering, the school of roads and bridges at Paris being founded early in the nineteenth century. This school was established and is still maintained to furnish civil engineers for the government on river and harbo: work and on the state highways and railways. It is conducted in a manner somewhat similar to ur West Point school for military engineers, in that the students are selected by examination and as soon as ... "har onter school they receive a sma





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#### NEW JOB FOR HAM

Claude Hamilton, who has been employed in the plant of the Elko-Lamoille Power company at Lamoille since the first of the year, has resigned his position at that place and has acepted a position as assistant to Lindsay Duncan, mechanical engineer of the Steptoe Valley Mining and Smelting company and the Nevada Consolidated Copper company at Mc-Gill, Nevada. "Ham" graduated from the electrical and mechanical department at Christmas time.

#### FROM REAY MACKAY

A letter from Reay Mackay, who graduated last spring from the agricultural department and who is now employed by the Miller and Lux people upon their holdings at Los Banos, California. Reay has received a promotion which speaks well for Reay and speaks well for Nevada. He sends his best wishes to Nevada and her students.

Barkley Craig, was able to leave the hospital on last Thursday after being confined in the little brick cottage with a severe attack of tonsilitis which kept him there for about two weeks.

Students of the engineering departments of the university were excused from classes Monday afternoon in order that they might attend the lectures of the Industrial Safety conference.

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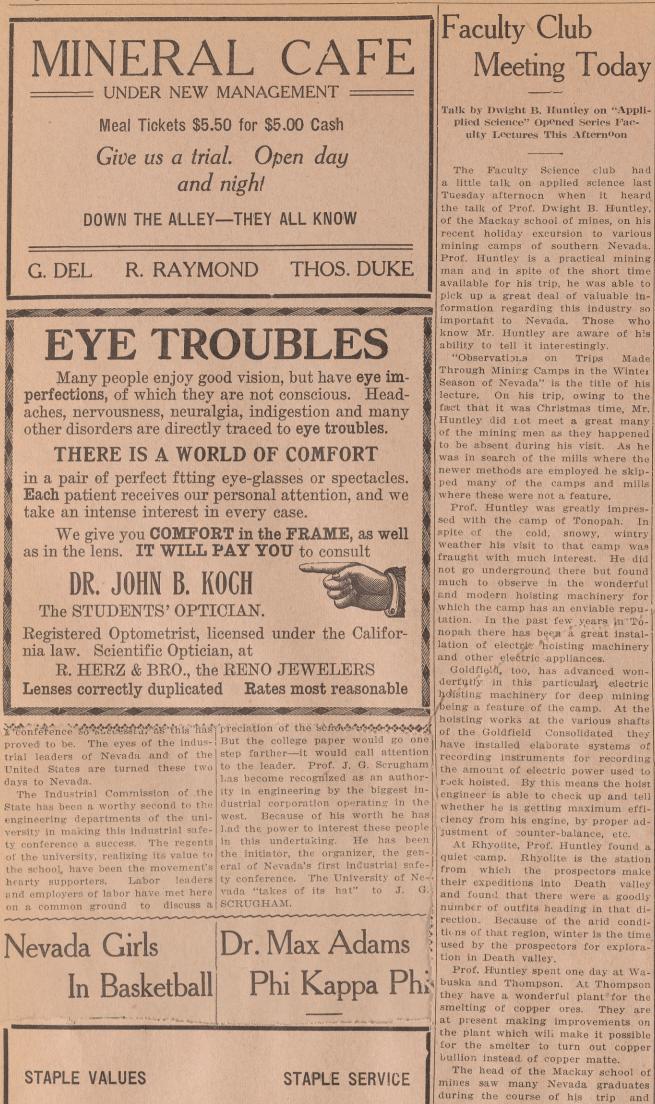
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e was treated royally by the mining men of all of the camps he visited. As an indication that Nevada prospectors are still holding up to the average in activity during this season of the year the Mackay school of mines has received about the same number of samples for analysis as in former years.

found them all pleased with what they are doing. They are doing well

and are all working with the hope of advancement. He also reported that

#### BIBLE CLASS

Prof. R. C. Thompson's class in Bible study for men will resume its meeting in the parlor of Lincoln hall next Thursday evening at 6:45 sharp. These meetings were extremely popuar during the last semester and the Sagebrush is in a position to state that the fellows that are missing this course are missing something worth while. The classes begin at 6:45 Thursday evening of each week and last just one hour

Arthur Reynolds, a graduate of the Mackay school of mines of 1913, is visiting at the Sigma Alpha house. Reynolds is interested, with four companions, in the "Neversweat" mine in the Rough and Ready district near Grass Valley and the "Neversweat" s bidding fair to make good. Reynolds will spend about a week at Ne vada visiting and gathering up books and things that he left here and then will return to Neversweat.

Be a live one. See Bill Smythe at once. Buy an A. S. U. N. membership card. And become a true student of Ne-

vada.



"Jim, said Laura, "that you will not, after we are married, become like some men, indifferent to personal appearance, but on the contrary, that you will, if anything, take a greater interest in your clothes, if that is possible than you do now?

"Why, Laura, I mean to have my clothes tailored by the International, no matter where I may be located. La-voie has my measurements, so if I happened to be in the Fiji Islands and had an aversion to tropical leaves, I could order through Lavoie. The International sells clothes all over the world, so Lavoie told me."

"All right, Jim, dear, but you will never get to the Fiji Islands-horrors! they'd eat you, and then what would 1 do?'

"Why, get another International tailored man," 

January 27, 1914



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### Wisconsin Engineer Article **On Euorpean Tech Schools**

The Wisconsin Engineer, a maga-Wisconsin. Extracts from the article our own schools. follow

"During the year 1895-6, and again luring the past winter the writer had he opportunity of visiting a number f the technical schools of Germany, rance and Great Britain. At the reuest of the editors of the Wisconsin Engineer there will be described in his article some of the peculiar feaures of these schools which may be of interest to Wisconsin students.

"The German school system, from top, to bottom, is so thoroughly organized and so widely known that we naturally turn to Germany when we begin to inquire about any phase of European school systems. So far as engineering schools are concerned, t may be said that the German system has been adopted in several other European countries, notably Austria, Switzerland, Norway and Sweden. In France and England, however, the development of these schools can hardly be said to have followed along the same lines.

The technical school system of Gernany is very complete, including schools of all grades from the continuation school, in which the amoun of instruction is limited to eight or nine hours per week, up to the pro fessonal engineering school, or tech nical high school, which is of the same general grade as the university. and which corresponds most nearly to the standard engineering school of this country. Between the continuation school and the technical high school there are large numbers of trade and secondary technical schools with courses ranging from one to three years in length and covering a very wide variety of instruction. These secondary technical and trade schools are, from the standpoint of the German industries, quite as important as the technical high school. The technical school of secondary grade and the continuation school, have, unfortunately, received very little encouragement in this country up to the present time. This condition will, however, rapidly change in the near future, as many of our states and cities are beginning to make suitable proision for this grade of technical education. For the purpose of this article we will confine our further attention to the technical high school of the engineering school proper.

"In Germany, and, to considerable xtent, in other European countries, the technical high school is quite separate and distinct from the university having separate organization and sep arate maintenance. Generally, these schools are maintained by an appropriation from the state, but in Great

"The preparatory course of study zine published each month of the in Germany carries the student someschool year by the Wisconsin Engi- what farther than the high school neering Journal association of Madi- course here, so that the students when son. Wisconsin, in its October number they enter the technical school have publishes an article on European en- already completed one or two foreign gineering schools, which was recom- languages, mathematics up to analytnended to the Sagebrush by one of ic geometry and more of history and he departments of engineering of this general study than is the case in this university. The article was written country. Students are, therefore, by F. E. Turneare, dean of the college much better prepared and more maof engineering, of the University of tured than the average freshman in

> "The number of students in English schools is very much smaller than in Germany. In fact, the facilities offered in English schools seem to be out of proportion to the number of students. In two or three of the cities which the writer visited, the attendance in each place was about 100 to 150 engineering students, all told.

"One of the causes of the marked difference between the number of students attending British and German schools is undoubtedly the fact that in England the principal industries came first and the schools after wards, while the reverse may be said to be the case in Germany. German industries have been created largely by technically trained men, and these men naturally know how to use the product of the schools. In England t is comparatively difficult for technical graduates to find employment and in many cases they are obliged to go through precisely the same apprentice system as the uneducated employes. The custom is aften still followed even in civil engineering, of the college graduate paying a fee to his employer to allow him to enter his office as a student or apprentice, in order to learn the practical side of the work. These conditions are not such as to encourage large numbers of young men to study engineering in school, and many of those who graduate emigrate to Canada or some of the English colonies to find employment

"French technical schools are not s well known abroad as the schools of Germany, and, indeed, are not nearly as numerous or as largely attended. It is interesting to know, however, that France was the first to establish a school of civil engineering, the school of roads and bridges at Paris being founded early in the nineteenth century. This school was established und is still maintained to furnish civi engineers for the government on river and harbo: work and on the state highways and railways. It is conduct. ed in a manner somewhat similar to our West Point school for military engineers, in that the students are seected by examination and as soon as they enter school they receive a small compensation. During vacation per ods and after graduation they are employed by the government

"There are other engineering schools in Paris and elsewhere in France which train young men for the various kinds of engineering practice, but it may be said that French industries are such as to demand very much smaller numbers of technically

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| Cotton-I urner Cigar Co.                                                                                                                                                                            | Britain private endowment and city trained men than those of Germany.<br>appropriations have materially aided. Schools of high rank are few in num-                                                                                                                                                                                               | 307 Sierra St. Reno, Nev.                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| THE BEST OF THE GOOD ONES                                                                                                                                                                           | Student fees are very small, but under<br>the German system, they are often<br>sufficient to add materially to a pro-<br>ulty have they acquired the reputation                                                                                                                                                                                   | Lassana                                                                                                                                                          |
| "LONDON LIFE"<br>TURKISH OIGARETTES                                                                                                                                                                 | sufficient to add materially to a pro-<br>fessor's salary.<br>"In Germany there are altogether,<br>nine institutions of the rank of tech-<br>nical high school. These are located the reputation<br>of the German schools.<br>"The writer is often asked the ques-<br>tion if it is worth while for the stu-<br>dent who graduated from an Ameri- | RENO QUICK LUNCH<br>32 West 2d St. Phone 363                                                                                                                     |
| 10c                                                                                                                                                                                                 | at Charlottenburg (Berlin), Munich,<br>Dresden, Stuttgart, Karlsruhe, Han-<br>many. In answer to this, he believes                                                                                                                                                                                                                                | eat,                                                                                                                                                             |
|                                                                                                                                                                                                     | over, Brunswick, Aix la Chapelle. The<br>Swiss school at Zurich and the great<br>school at Vienna, are fine institutions<br>and, for all practical purposes, may<br>be classed as German schools. In the                                                                                                                                          | And for service you bet they're there,<br>With the prices always fair.<br>And the Waitresses, four in all,<br>You can hear them as they call—                    |
| a coupon of cash value.                                                                                                                                                                             | matter of rank these schools are on<br>substantially the same basis.<br>"The entrance requirements are of<br>school. Foreign travel is, of course,                                                                                                                                                                                                | Ham-and, Ribber, Fry Two on the<br>Side,                                                                                                                         |
|                                                                                                                                                                                                     | the same grade as the entrance re-<br>quirements to the universities, but ways, but it is believed that such trav-                                                                                                                                                                                                                                |                                                                                                                                                                  |
| /                                                                                                                                                                                                   | more latitude is allowed in a prepara-<br>tory course of study. Thus, for uni-<br>versity preparation students must at-<br>many years in practice and is in a                                                                                                                                                                                     | Sauce,<br>And a Cup of Hot Java made by the<br>Boss.                                                                                                             |
| THE OWL CAFE                                                                                                                                                                                        | tend a classical preparatory school in position to understand and appreciate which both Latin and Greek are re-                                                                                                                                                                                                                                   | Hot Mince, Baked Apples, Peaches                                                                                                                                 |
| Under new management. The best of everything and all delicacies<br>in season.<br>M. S. HOSKINS, Prop. 232 N. Virginia Phone 759                                                                     | quired. For the technical school, stu-<br>dents are accepted from preparatory<br>schools in which neither Latin or ed to the German student and German                                                                                                                                                                                            | Why any of these things are fit for a queen.                                                                                                                     |
| M. S. HUSAINS, 1109. 200 211 109200 100000000000000000000000                                                                                                                                        | Greek is taught, modern languages, conditions and the American school<br>science and drawing taking their to the American student and Ameri-                                                                                                                                                                                                      | lean and fat,                                                                                                                                                    |
| Miss Leola Lewis spent Saturday                                                                                                                                                                     | place.                                                                                                                                                                                                                                                                                                                                            | good at that;<br>SLATTS, the proprietor, so pleasant                                                                                                             |
| Try a cup of coffee and a ham sand-<br>wich, Dalton, Clifford and Wilson, op-<br>posite the postoffice.<br>DI. Duviu W. KullSoll<br>Dentist<br>Over Pickett Atterbury's<br>Gents' Furnishing store, | STATE AGENTS STUDEBAKER AUTOMOBILES<br>Auto Supplies and Tires—All Kinds of Coal                                                                                                                                                                                                                                                                  | and fair,<br>Welcomes all the guests as they enter<br>there.<br>But this is what I wanted to say,<br>It's the Best Place to Eat and not a<br>bit out of the way. |
| Be a live one.<br>Buy an A. S. U. N. card.<br>Become a true Nevadan.<br>Bill Smythe will sell you the card.                                                                                         | STEINHEIMER BROS.<br>Phone 1261 :: :: :: Reno, Nevada                                                                                                                                                                                                                                                                                             | Dr. John B. Koch, the student's<br>optician, at R. Herz & Bro., the jew-                                                                                         |

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## "Safety First" The Headlight

#### (Continued from page 1)

where from unity to 2000 times or more, depending upon the condition of reflector and the focus used. For example, a 500 horizontal candle power arc with a dirty, ill focused refiector, may give only a very few thousand candle power ahead on the track, while a well designed 100 candle power incandescent, with a properly focused reflector is capable of delivering nearly a quarter of a million candle power where it is needed. To obtain efficient results it is necessary for the light source to be well concentrated and placed at what is known as the focal point of the reflector. The complaint about poor head lights arises as much from the improper condition of the reflector and focusing, as from the insufficiency of the light itself. There seems to be an almost unanimous opinion that the light reflected ahead should be of sufficient volume to enable the engineer to discern any serious obstruction or fault on the track in time to prevent or minimize the danger of an accident. This means that the object must become visible at a distance of from 500 ot 1000 feet under ordinary operating conditions. Another requirement is that the light should not be so strong and dazzling as to blind observers or approaching enginemen. A very powerful arc, especially those avoided because of the tendency to signals and the injury to the eyes of those looking into its field.

The light should be uniform, reliable, and easily replaced or renearly fulfills these conditions. In recent years the unit, called the can-is not being denonulated to the power has been cle power, has been practically aban- tent. dcned by illumination engineers and lamp manufacturers on account of its ambiguity. The most definite and useful unit is called the foot candle and is a measure of the illumination on the objects to be made visible, instead of being a measure of the light source itself. To those having normal vision, an illumination of one-tenth of a candle-foot thrown from a headlight on a dark oject the size of a man renders it distinctly visible at a distance of a thousand feet or more under ordinary conditions. A man wearing white clothes can be discerned at twice this distance. If he wears some glittering jewelry, as in one case which came under my observa-

tion, he can be spotted more than half a mile away. However, all trials should be based on discernment of dark objects, as the average trespasser on the right of way is rarely so accommodating as to display his jewelry to the engineer on the approaching train.

Illumination such as I have just described can readily be obtained from a concentrated filament lamp of 100 mean spherical candle power if a well silvered paraolic reflector is used. In foggy weather or when the air is filled with snow flakes, the lower candle power lamp again has the adtrating than those of the higher candle power light. These latter are reflected back toward the observer. It is only within the past few months that a satisfactory incandescent lamp has been developed for headlight purposes. The old cabron filament lamp and the earlier forms of tungsten light source could not be sufficiently concentrated to give good results with a parabolic reflector. However, the development of the wire drawn holix filament tungsten lamp surrounded by nitrogen gas seems to have solved the problem. When a lamp is so con-structed that practically all of the light source can be placed at the focal point, the illuminating efficiency is vastly higher than when the light covers a large area. For this reason a low candle power lamp can frequently reflect a better light on the track than the large arc. The big headlight manufacturing concerns, such as the Pyle, Remy, and others, who formerly specialized in arcs are new building turbo-generator sets to accommodate the rapidly increasing demand for the incandescent light. The advantages of giving no fumes to blacken or tarnish a reflector and re-quiring no elaborate mechanism for adjustment is ovious to all. I hold no brief for any particular make or type of generating apparatus. The point I do wish to make is that a five hundred or a five thousand candle power light is of very little use in preserving the lives of the traveling public unless it is properly reflected and directed to where it is needed. Another thing worthy of consideration is the

location of the light on the front of the engine

For many reasons it would be a marked advantage to have the headlight located lower down on the front of the boiler than is the present practice. I was formerly a very warm ad- February 3. The subject of his lecture vocate of such a change, but after ob- will be, "Some Recent Developments serving the ultra-coarse methods used in Radio-activity." The club will by an Austrian helper in opening up meet in the geology room of the

mer, the desirability of the present headlight location became obvious. Reverting to the subject of headlight legislation again. While the startling originality of the ideas of some of the bill framers might be deemed comendable, yet the question is obviously one that should receive the atention of some competent Fed-eral Commission empowered to make recommendations to congress. Such a comission should consist of a num-ber of locomotive engineers and other qualified experts who would determine qualified experts who would determine what degree of illumination on ar object expressed in foot candles is required for the engineer with normal vision to sight a man in dark clothes at various specified distances. legislation should be based on such accurate and reliable information in-stead of in haphazard manner as at

#### .. NAT WILSON LEAVES

present.

Nat Wilson left Reno last Saturday night for Elko where he has acceptad a position with the Elko-Lamoille Power company. Nat accepted the position with the Nevada company in preference to one offered by the Northwestern Electric company at Portland. The Nevada men graduatrich in greenirh rays, should be ing in the department of electrical engineering almost always choose the give a false color to the red danger Nevada, positions when there are two available as they consider the opportunities for advancement in this state greater that those in some of the more densely populated districts. paired in case of failure. Our prob- By Nevada offering employment to



THIS WEDNESDAY

It is hoped that Dr. E. L. House who has conducted a series of evanselistic meetings here, will give one of his effective addresses at the Y. W. . A. meeting this Wednesday. Miss MacAdam will sing. The meeting promises to be one of interest and certainly one that is invited. As usual, the meeting will be held in room 6at 4:30.

Hot drinks of all kinds at the Fountain, opposite the postoffice.

#### FACULTY SCIENCE CLUB

Dr. C. A "Jacobson of the department of chemistry will deliver the early part of the week upon the next lecture of the club on Tuesday, a smoke box door with a sledge ham- Mackay building on the above mention-

attend this meeting.

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Miss Rowena E. Glass, who has but recently recovered from an attack of appendicitis, spent an afternoon in the campus.

A. H. Babcock, chief electrical engineer of the Harriman lines and designer of several of the street railway ed date at 4:35 p.m. Students and all systems of many of the larger cities of the faculty are cordially invited to on this coast, is in attendance upon the "conference."

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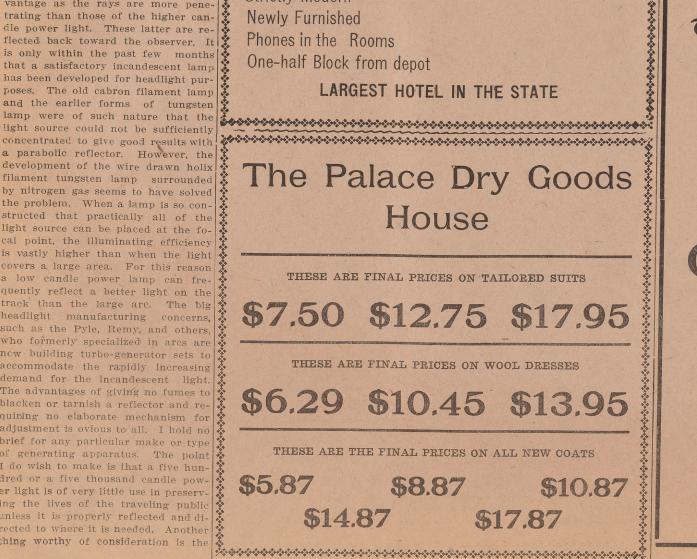


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