

The U. of N. Sagebrush

Vol. XXI

UNIVERSITY OF NEVADA, RENO, NEVADA, JANUARY, 20, 1914

Number 19

19 "S-A-F-E-T-Y F-I-R-S-T" 14

"Safety First" All Complete

Greatest Effort Ever Made by
Nevada Engineering
College

CONFERENCE IS BALANCED

Catalogue for Use in S. P. Ex-
hibit in Place in the Gym-
nasium

On next Monday the first industrial safety conference to be held in the state of Nevada will begin at this university. The general meetings, which are to be held in the gymnasium, and the special meetings, to consist of the conpetition of supervisors of apprentice schools, and the electrical section, to be held in the electrical building, will be open to the public. Owing to the limited capacity it will be impossible to include the general public to the dinner which is to be given in the dining hall and to the headlight test which is to be held at some point on the Southern Pacific lines. For this reason admission to these two events will be by special invitation only.

Becoming Organized

The official program, which has been changed a little from that printed in the last issue of the Sagebrush, has been published and copies of it are being sent broadcast to people interested in the movement. The program as revised appears elsewhere in this number of the Sagebrush.

As the program has become perfected, so are the exhibits and other features rounding into shape. A few days ago Prof. Scrugham received a letter from C. W. Price, safety engineer for the industrial commission of the state of Wisconsin, stating that he would prepare a paper and if possible deliver it personally at the general meeting in the gymnasium Tuesday afternoon. The title of this paper is "The Prevention of Accidents," and as Mr. Price is generally conceded to be one of the foremost safety experts in America, this paper will form a very interesting part of the program.

The student committees consisting of members of the Engineers' club have also been appointed and are now completing the details so that the conference will be carried through without a hitch. On the executive committee are P. E. Raymond, who is president of the Engineers' club; H.

(Continued on page 4)

Majestic Theatre

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JANUARY 22

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iety Event of the Season

The Biggest Musical
Success of the Century

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Monday, January 26, 1914, General Meeting

Afternoon Session 2 P. M.

- Presiding Officer.....Honorable Tasker L. Oddie, Governor of Nevada
Honorary Presiding Officers.....W. E. Wallace, Brotherhood of Railroad Trainmen
.....W. R. Scott, General Manager Southern Pacific Company
- No. 1. The "Safety First" Movement in Nevada
By John J. Mullin, Secretary Nevada Industrial Commission
- No. 2. "Safety First" on the Oregon Short Line
By L. E. Abbott, Safety Commissioner, Oregon Short Line
- No. 3. "Safety First" in Practice
By Frank Ingram, Secretary Brotherhood of Locomotive Firemen
- No. 4. Safety Regulations for Electric Power Companies
By W. K. Freudenberger, Chief Engineer, State Public Service Commission.
Discussions by George A. Campbell, General Manager, Truckee River General Electric Company and Reno Power, Light & Water Company; Fred A. Mechling, Manager, Nevada-California Power Company; F. O. Broili, Superintendent Elko-Lamoille Power Co.; H. S. G. Hurlbut, Superintendent Pacific Power Co.; L. W. Crehore, Electrical Engineer, Fallon Municipal Plant; Joseph Bean, Electrical Superintendent, U. S. Government Plant, at Lahontan.
- No. 5. Electric Headlights
By J. G. Scrugham, Professor Electrical and Mechanical Engineering, University of Nevada.
Discussion by representatives of Engineers, Firemen, Trainmen and Conductors on behalf of the employes; and officials of the Southern Pacific Railroad, Tonopah & Goldfield Railroad, Salt Lake, San Pedro & Los Angeles Railroad, and Nevada-California-Oregon Railroad, representing the Railroad Companies.

Evening Session 7:45 P. M.

- Presiding Officer.....H. C. Neeld, International Association of Machinists
Honorary Presiding Officers.....W. S. Lunsford, Reno Typographical Union
.....H. A. Lemmon, State Industrial Commissioner
- No. 1. Demonstration of Wireless Telegraphy and of Discharges of High Potential Electricity; by Departments of Electrical Engineering and Physics, University of Nevada.
- No. 2. Motion Pictures, "The Manufacture of Steel," loaned by the U. S. Steel Corporation.
- No. 3. Motion Pictures, "University Campus and Laboratories."
- No. 4. Motion Pictures, "Miners at Work, Mine Explosion and Rescue," loaned by the U. S. Bureau of Mines.

Tuesday, January 27, 1914, General Meeting

Afternoon Session, 2 P. M.

- Presiding Officer.....Honorable E. S. Farrington, Judge United States Court
Honorary Presiding Officers.....John G. Kirchen, General Manager Tonopah Extension Mining Company; Burt Holcomb, President Virginia City Local, Western Federation of Miners.
- No. 1. Industrial Safety
By Commissioner W. J. French of the California Industrial Accident Commission and F. C. Schwedtman, National Association of Manufacturers.
- No. 2. The Nevada Industrial Commission
By Hon. George B. Thatcher, Attorney General of Nevada
- No. 3. "Safety First" in Mining
Thos. M. Fagan, President Tonopah Miners Union
- No. 4. Accident Prevention in Mining
By Edward Ryan, State Mine Inspector, assisted in demonstrations by Mining Department University of Nevada.
- No. 5. First Aid to Injured
Opening paper by Dr. Donald MacLean; Discussion by Professor Peter Frandsen and Dr. O. P. Johnstone, University of Nevada; Dr. S. K. Morrison and others.
- No. 6. "Safety First" at Nevada Consolidated Copper Company.
By Lindsay Duncan, Mechanical Engineer of Nevada Consolidated Copper Co. and Steptoe Valley Smelting & Mining Co.
- No. 7. Reading of Communications
- No. 8. Impression of a Visitor from Nevada, who attended the Safety Conference under the auspices of the American Museum of Safety held in New York, December 10, 11 and 12, 1913; Rev. Lloyd B. Thomas, Carson City, Nevada.
- No. 9. Question of Organization of Nevada Chapter of the National Council for Industrial Safety.
- No. 10. The Prevention of Accidents
By C. W. Price, Safety Engineer, Wisconsin Industrial Commission.
- No. 11. Motion Pictures, "National Mine Rescue Demonstrations," loaned by U. S. Bureau of Mines.

Special Meetings

- Presiding Officer..... P. E. Raymond, Brotherhood of Locomotive Firemen and President University Engineer's Club
Honorary Presiding Officers.....B. G. McBride, Manager Elko-Lamoille Power Co.
.....C. W. Whitney San Francisco Engineer's Club

APPRENTICE INSTRUCTORS SECTION

10 A. M. Monday, Jan. 26th, and Tuesday, Jan. 27th, 1914

- No. 1. Industrial Education
By Hon. John Edwards Bray, State Superintendent Public Instruction.
- No. 2. The Apprentice School System of the Southern Pacific
By Thos. G. Gray, Sacramento Shops.
- No. 3. Shop Arithmetic for Apprentices
By L. B. Verweire, Los Angeles Shops.
- No. 4. Mechanical Drawing for Apprentices
By H. S. Gillette, West Oakland Shops.
- No. 5. A Proposed System for Railway Apprentice Instruction
By A. W. Preston, Shop Superintendent, University of Nevada.

ELECTRICAL SECTION

1 P. M. Tuesday, Jan. 27th, 1914

- No. 1. The Development of the Electrical Manufacturing Industry
By R. M. Alvord, Manager Supply Dept., General Electric Company.
- No. 2. Electric Irrigation Pumping
By H. F. McPhaill, University Engineer's Club.

NOTE:—On Monday evening, Jan. 26th, a special train will be provided to convey the members of the Engineer's Club of the University and specially invited guests interested in electric headlamps, to some point on the line of one of the railroads where a series of tests and demonstrations will be held under the auspices of the Electrical Engineering Department of the University of Nevada.

"Rose Maiden" Friday Night

Big Cantata to Be Given At
Majestic Free to Nevada
Public

OVER SIXTY PEOPLE IN CAST

Purpose of Cantata to Promote
Interest in Student
Affairs

The cantata, "The Rose Maiden," will be given in the Majestic theater, under the directorship of Dr. Charles Haseman, next Friday evening. The curtain will rise at 8:30 sharp. There is absolutely no admission to anyone. This point should be emphasized by every member of the student body as the cantata is being given to stimulate interest in student affairs.

The full program and synopsis have been obtained for the benefit of Sagebrush readers:

Argument

The queen of the flower fairies, weary of a life of unbroken calm, prays of the newly returned spring that he will bestow upon her also the gift of love that he bestows upon man. He warns her of the risk she runs, but finally yields to her entreaties by changing her while she sleeps into the form of a beautiful 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 undeterred 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 love as fatal to peace and happiness.

Characters

Roseblossom.....Mrs. Wagner
Spring.....Mr. Fergusson
The Gardener's Daughter.....
.....Miss Miller
The Forester.....Mr. Rose
The Elves.....Girls' Glee Club

THE ROSE MAIDEN

by
Bi H. Cowden

(Presented by the University of Nevada Choral Club)

1. Introduction.....Piano Duet
Miss Denny, Mr. Corirs
2. Green Vale and Vine-clad..
Mountain.....Chorus
(a) And Through Earth's Bridal

(Continued on page 5)

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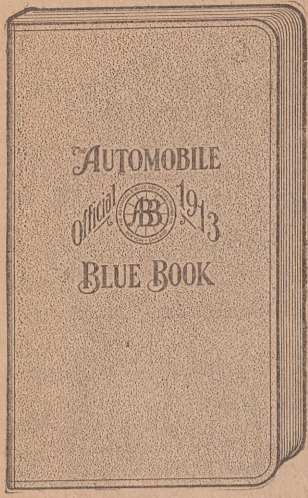
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Opposite City Hall

FACULTY SCIENCE CLUB
The first meeting of the Faculty
Science club will be held in the Mac-
kay building Tuesday, January 20, at
4:35 p. m.
Professor Huntley will give an ac-
count of his recent trip to the south-
ern part of Nevada and it will be a
popular interest. Every one is invited
to attend as the meetings are open.

Miss Veronica Dickey came in Sun-
day from Glendale and expects to stay
for at least two months at Manzanita
hall.

Frank Peterson, now instructor at
the University of California agricul-
tural school at Davis, spent the week
end in Reno. He attended the Ar-
temesia dance Saturday night and told
the staff he had some interesting snap
shots they could use in the book. Frank
was formerly irrigation engineer for
the United States department of
agriculture in Nevada and his busi-
ness was with his successor, Mr. Mur-
dock.

Under this constitution the new
club elected the following officers to
serve the organization until next May.
Lester Withers, president; Juanita
Frey, vice president; Elmer Heward
secretary treasurer. In addition to
these officers Dr. H. W. Hill, of the
department of English, and Vernon
Organ were selected as the members
of the executive committee.

Nell Morrow, who spent the months
of last semester visiting around the
bay and who arrived in Reno in time
to spend Christmas at her home in
Reno, was one of the many who en-
joyed the Artemesia dance last Fri-
day evening.

Prof. Fergusson, of the department
of meteorology of this university, will
visit Truckee during the fore part of
this week on business connected with
his department.

Miss Kate Bardenwerper entertain-
ed the members of the faculty at a
tea last Wednesday afternoon inci-
dental to the regular meeting of that
body.

Harold Fletcher, a wearer of the
Nevada "N" and the California "C"
spent a few days here during the vaca-
tion.

Ag. Magazine On Irrigation

"Better Farming" Devotes Entire Is-
sue to Article Prepared by F.
L. Peterson, Now of U. C.

NOTE

The following article was prepared
by the Sagebrush for use in its own
columns. The Journal was "stuck"
in its issue of January 18 and publish-
ed the article. This article was liter-
ally stolen by the Nevada State Jour-
nal from the reserve section in its
job department held by the Sagebrush
and no credit was given to the latter
paper whatsoever. The Journal or
any other newspaper is welcome to
any material of general interest which
the Sagebrush may have, but the
Sagebrush does withhold the right to
publish its own stories first.

"Better Farming" is a pamphlet
published by the Dept. of Agriculture
of the University of Nevada and is
devoted, as its name implies, to a
more scientific agriculture in this
state. The whole of the last number
of "Better Farming" is devoted to an
article, "Irrigation and Some of Its
Problems in Nevada," by Frank L.
Peterson, until recently irrigation en-
gineer for the U. S. department of
agriculture in Nevada. The article
abounds in useful information which
has been largely put forth in the form
of tables. A few extracts from the
study follow:

Historical

"The history of irrigation in Nevada
has never been written as a separate
treatise, and a brief sketch showing
the development in the different ten-
year periods is here given to show the
progress made in irrigation develop-
ment. The beginning of farming was
made with the beginning of mining
in 1850. The Truckee and Carson riv-
ers were along the path of the over-
land trail to California in the days of
'49, and in places where the soil was
naturally moist, or where the streams
overflowed during the early spring,
were natural meadows. On these
meadows some of the emigrants set-
tled who were crossing the plains. On
these meadows grew up simply the
stock farm. Farm life at that time
had to take the line of least resistance;
irrigation structures did not extend
past the brush-and-rock dam thrown
across the streams to make the water
overflow larger areas than it ordina-
rily would. There was no demand
for diversified crops, and the early
settler turned his attention to increas-
ing his herds of cattle and flocks of
sheep, which roamed the range in
the summer, to consume during the
winter months the hay that had been
produced the previous season; his sur-
plus products were sold to emigrants
passing through to California. The
emigrants traded the farmer flour and
other articles for hay, beef, mutton or
horses.

"The increase in the percentage of
farm lands improved, together with
the increased value per acre from 1860
to 1880, showed that at the latter
date irrigation development kept pace,
relatively, with the acquisition of land
for farm purposes. From 1880 to 1890
irrigation development did not keep
pace with the increase in farm acre-
age. This is explained by the fact
that large areas of state lands, sold
at a very low rate per acre on easy
terms, had been purchased and were
held without improvement, either for
range purposes or for speculation.
From 1900 on substantial development
in irrigation commenced. Due to in-
creased mining activities, diversified
products close at hand were demand-
ed. The trend towards the general
farm and improvements in irrigation
practice commenced about 1901. Prior
to the construction of the Truckee-
Carson project by the United States
reclamation service, started about this
time, no large irrigation enterprises
had been undertaken. * * * * *

The article goes on to describe the
watersheds and drainage areas in Ne-
vada. It takes up in detail the Hum-
boldt river drainage, the Truckee river
drainage, the Carson river drainage,
the Walker river drainage, the Muddy
river, the Las Vegas valley artesian,
and the small streams in northern
Nevada.

Necessity for Irrigation

"Irrigation, or the artificial appli-
cation of water to the soil, is for the
express purpose of correcting an ab-
solute deficiency of moisture in the
soil. The sun's rays, coupled with an
extremely low humidity of the atmos-
phere in Nevada, cause an enormous
loss of water from the soil alone.
This factor, together with the trans-
piration of crops, soon renders the
soil depleted of its moisture content.

(Continued on page 3)

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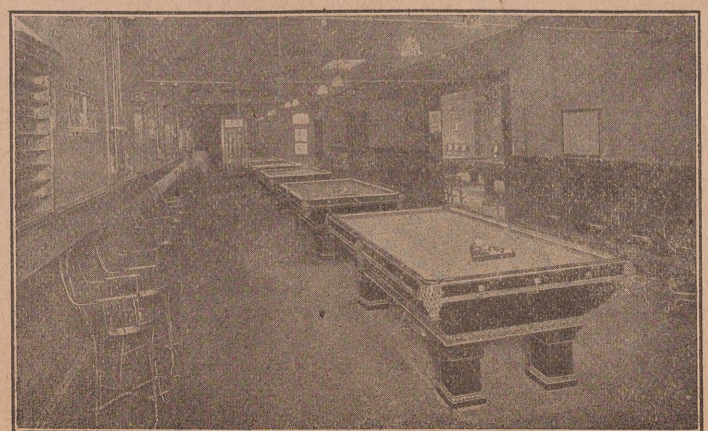
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FLETT
ITS
EET

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SEE FLETT

THE WALK-OVER MAN

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AG. MAGAZINE
ON IRRIGATION
(Continued From Page Two)

and we have to resort to irrigation to replenish this loss to mature the crops. The necessity for irrigation not only arises from a deficiency in the amount of precipitation, but from its uneven distribution. The greater part of the yearly precipitation for Nevada occurs during the winter months, fortunately in the form of snow. The melting snows of early spring and summer make available the moisture supply for the season when the rainfall is scant and undependable. * * * * *

Soil moisture, its movements and its availability are taken up in the article and then follows the following extract as to the methods of irrigation practiced in Nevada.

Methods of Irrigation Practiced in Nevada

"Two methods of irrigation are largely followed in Nevada—the flooding method, and the furrow method. The flooding method is divided into two types, depending on the character of the crops and the slope of the soil: (1) Flooding of meadows by simply conducting a ditch along the upper slope and allowing the water to flow from this, completely covering the meadow. (2) Flooding by checks, by dividing gently sloping surfaces into level benches by means of check levees and permitting the water to stand in these as in still ponds. Very few places in Nevada use the checkerboard system of flooding, by dividing nearly level ground into squares by surrounding levees and allowing the water to stand in these. After the irrigation has been applied for a sufficient time, if water is standing in the checks, a levee is opened and the surplus water is allowed to escape. Flooding is not generally practiced when the type of soil is inclined to bake, or form a crust. Flooding irrigation is also practiced at times to wash the surface accumulations of alkali, by admitting a large head of water over the area and then draining the field immediately. The furrow method of irrigation is used for all cultivated crops, like potatoes, onions, etc., and quite extensively on hay and grain land, particularly in the regions of heavy soils. The advantages and disadvantages of the two systems are discussed in the following paragraphs." * * * * *

Duty of Water

"The duty of water in irrigation is the area of the crop which can be matured by a given volume. The duty of water varies greatly and must of necessity do so. It depends in part on the economy and skill, or negligence and waste which govern its distribution. It varies with the crop; oats require more water than corn; alfalfa more than potatoes; cultivated crops, as a rule, require less than uncultivated.

"Mead writes: 'In determining the duty of water, it is manifest that if water is applied sparingly it will cover a larger area, and if applied freely, fewer acres can be served. The limit of profitable economy is to use the least quantity of water to secure the best yield. In determining the area which can be irrigated by a given quantity of water without regard to the rate of its delivery, the acre-foot is the most convenient and definite unit of quantity. An acre-foot is the volume of water one foot deep over one acre, or 43,560 cubic feet. Where it is taken as the standard, all arbitrary assumptions involved in the use of either the inch or the cubic foot per second are avoided. Those who wish to convert quantities expressed in acre-feet into equivalent values in inches or cubic feet per second need only to remember that a cubic foot of water flowing for 24 hours equals approximately two acre-feet (1.98 exact) and that the miner's inch flowing for a like period equals between .04 and .05 acre-foot, depending on the form of inch employed.'" * * * * *

Measurement of Water

Questions concerning the measurement and division of water probably give rise to more trouble than all the other questions combined in an irrigated region. It is a cause of friction between the management of a canal and the consumers. It is more troublesome because of the well known fact that a stream of water always looks larger in a neighbor's ditch than in one's own. When streams carried more water than was needed, water was seldom measured. Canal companies took what they wanted, and the irrigator was charged for the acres irrigated without any reference to how much he used. The need of a definite unit of measurement for the commodity bought and sold is now manifest.

Definitions

The standard unit of measurement for flowing water is defined by law for the state of Nevada to be the cubic flowing water is defined by law

the flow of one cubic foot of water per second of time. Using this as a basis there can be no confusion in the method of results of measurements if the velocity has been determined accurately. To find the discharge of a stream, determine the area in square feet and multiply this by the velocity of the stream in feet per second. The result will be cubic feet or fraction of a cubic foot per second. A discussion of the different modes of measurement follows in the next few paragraphs.

A cubic foot of water contains 7.4805 gallons, ordinarily stated as 7.5 gallons, consequently a cubic foot of water per second is equivalent to 7.5 gallons per second, or 450 gallons per minute. A cubic foot of water weighs 62.46 pounds. A cubic foot of water per second, flowing for 12 hours will cover one acre 0.99 of a foot deep; flowing for a period of 24 hours will cover an acre 1.98 feet deep. For convenience in remembering, it is usually stated that a cubic second-foot will cover an acre two feet deep in 24 hours.

The acre-foot is the standard of measurement of volume, as of water stored in a reservoir, or depth applied in irrigation to land. An acre-foot is the amount of water required to cover one acre of surface one foot in depth. An acre contains 43,560 square feet, hence, an acre-foot of water contains 43,560 cubic feet, or 325,850 gallons.

Mr. Peterson was aided in gathering some of the data concerning the Lovelock valley by W. H. Settlemyer, who acted as his assistant engineer in that locality.

"Better Farming"

"Better Farming" is published by the University of Nevada department of agriculture and the work is done by the state printing office at Carson City. It is intended for free distribution among the people of Nevada who may desire to receive it.

No Tournament By Hi Schools

No Midwinter Tournament of Basketball to Be Held At Nevada This Year

Because the graduate manager of the A. S. U. N., Silas E. Ross, has received replies from several of the state high schools relative to the interscholastic basketball tournament, which was to be held at the university during the latter part of January or the first of February, stating that although they were heartily in accord with the proposition they could not successfully finance the trip at this time, the proposed tournament has been declared off. It is, however, conceded that the tournament is a move in the right direction. The attempt to get the high schools of the state together at the university during the winter was made difficult by the long distances some of the high school teams have to travel to reach Reno. Mr. Ross found that it would be impossible for the tournament to draw large enough crowds to guarantee all expenses to the visiting teams and therefore he proposed to them that each team should receive living expenses while in Reno and that each team should pay its own railroad fare. Most of the teams in districts adjacent to Reno reported their willingness to come under such an agreement but Ely, and some of the other teams more remote decided that it would be impossible for them to be represented under those conditions.

In another year, owing to these difficulties in getting all the high schools represented at a mid-term tournament, Mr. Ross expects to conduct the proposition on a somewhat different basis. The plan is to have three tournaments held in the state, one tournament for each district. The three teams winning the championships for the three districts will then journey to Reno where the final series for the championship high school basketball team of the state will be held.

During the Christmas vacation the department of physics received valuable laboratory apparatus in the form of a Cailletet pump for liquifying gases. The instrument has a maximum pressure of 30 atmospheres. The instrument is of foreign make, it is made by the Geneva society for the manufacture of physics and mechanical instruments, and is one of the finest pieces of laboratory apparatus that the department boasts.

Last fall the same department received a wireless telegraphy outfit manufactured by the Mox Kohl concern. This apparatus has not yet been set up but Dr. Hartman expects to have it in full working order for use in the Industrial Safety Conference which meets at the university during the two days, January 26 and 27.

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VOL. XXI RENO, NEVADA, JANUARY 20, 1914 NO. 19

EDITORIAL

"SAFETY FIRST"

Amos Elliott, chief of the department of publicity of the university, has been appointed chairman of the committee on publicity for the Nevada Industrial Safety Conference. In addition to his duties in that direction, he is organizing the Nevada college men to insure that every visitor at the "Safety First" will be made to feel at home. Under the system it will be every man's duty to greet visitors and to show them the University of Nevada.

The men of the agricultural college have been given especial charge of this reception work. They are to act

as conductors of visitors about the campus.

To complete the details of the scheme there will be a meeting of all men of the university at Lincoln hall Thursday evening from 7 until 8 o'clock. It is the duty of every man in the college to be at that meeting.

It is hardly necessary to state here that the University of Nevada Engineers' club and the Nevada State Industrial Commission are doing a great work for this state by means of this conference. For this conference to be utilized so as to educate visitors from Nevada, the Pacific coast and even from the east that we have a UNIVERSITY that deserves more students will be the work of the men of our own student body.

"Safety First" All Complete

(Continued from page 1)

C. Neeld, of the school of mines; Delwyn Dessar, of the mechanical department; and Philip Cowgill, of the department of civil engineering have been appointed. To look after arrangements for the dinner, Scott Jameson, manager of the university dining hall; Irving Van Dalsem and Glen Engle; for decoration and entertainment, Tom P. Walker, Archie Trabert, Richard H. Sheehy. On publicity and entertainment, Amos Elliott, of the department of publicity of the university; Charles Haseman, head of the department of mathematics; Joe McDonald, business manager of the Sagebrush; Elmer Wiley, Harvey McPhail and Elmore Abbott; gymnasium arrangements, Irving Rivett, Herbert Squires, Edwin Sather, Harry Moore, are the committees.

In its issue of last week the Sagebrush published a large number of letters of people expressing their interest and pledging their support of the conference. During the week letters have arrived from leaders of labor unions throughout the state expressing the desire of themselves and the men they represent to help in the movement. The interest of the labor unions gives assurance that the conference will be well balanced as employees, employers, and the commissions of the state regulating industry all will be represented.

Exhibits Arrive

Just in time to be used in the various displays of the conference, the mechanical and electrical department has received from the Remy Electric company of Anderson, Indiana, stating that they had rendered order for one complete Model D headlight equipment, including steam turbine, reflector, etc. This is a valuable equipment and it is hoped that it will arrive in time to be used during the safety first conference.

The department has already received as a gift from the General Electric company the rotating element of a steam turbine runner, demonstration model and the large 18-inch headlight reflectors that go with it. The outfit

is complete with the exception of the shell and will be set up for use as an exhibit at the conference showing the generating system for an up-to-date headlight for locomotives.

Another interesting exhibit is that of valves received as a gift from the Jenkins Valve company of Chicago. The collection consists of a large number of valves showing the cross sections of nearly every type of valve.

On Schedule Time

An original idea to illustrate "safety first" and at the same time to insure that the large program is carried through on schedule time, has been devised by Prof. Scrugham. A real block signal, probably the one that now adorns the sidewalk in front of the Southern Pacific office in the Odd Fellows building, will be placed in the gym. This will be so arranged that when a speaker has talked his allotted time the signal will automatically give the sign for him to stop.

In addition to the large block system, the Southern Pacific company will have on exhibition the model layout of a block system which is used in giving examinations to railroad employees. It is a miniature of the whole section of a block system and shows the entire operation of a division which results in the raising and lowering of the signal.

Torpedo signals used in railroad work will also be in evidence.

Probably the greatest exhibit of the conference is the one which arrived a few days ago in the care of John C. Weigandt, assistant chief clerk to the chairman of the executive committee of the Southern Pacific company of New York. The exhibit will be set up exactly as it was originally set up at the International Exposition of Safety and Sanitation held at the Grand Central palace at New York City December 11 to 20, 1913. Its display at the University of Nevada will be its first display outside of the city of New York. Almost immediately after his arrival in Reno Mr. Weigandt submitted photographs and specifications of the booth for the exhibit to a local lumber company and the contract was awarded. This company, by working overtime, will have the booth ready by next Thursday morning so that Mr. Weigandt and Mr. Andrews, representing the San Francisco office of the company, can arrange the maps, charts, photo-

graphs, etc., which comprise it. The booth will be made in sections so that it can be taken apart and thus rendered portable. After its use at the Nevada Industrial Safety Conference it will be taken by Mr. Andrews over the California division of the Southern Pacific system and will be set up at various points for the education of company employees.

Catalogue of Exhibits

As catalogues of this remarkable exhibit may not be available to those who may visit the gym during the conference the Sagebrush publishes the following catalogue of exhibits taken from the original pamphlet issued by the company for the use of the visitors at the International Exposition in New York. The numbers correspond to the numbers on the charts, maps and photographs.

Maps and Charts

1. Map of western portion of United States and Mexico showing in color railroads operated by Southern Pacific company and proprietary companies.

2. Outline maps of lines of Southern Pacific company showing in color the main lines protected by automatic block signals, these having been provided for 3552 miles of road at a cost of \$4,500,000.

3. Graphic chart showing accident record of Southern Pacific company for years ending June 30, 1907, to 1913 inclusive. This chart illustrates the reduction in total number of accidents per million locomotive miles run as well as in persons killed and injured and in property damage; also the increase in mileage protected by block signals.

4. Graphic chart showing distribution of railway fatalities occurring on lines of the Southern Pacific company during last five years. Attention is called to the large percentage of the total deaths chargeable to trespassing on railway property and to the negligible percentage of fatalities to passengers, not a single passenger having been killed in a train accident on the lines of the company during the past five years.

5. Chart showing results of surprise tests conducted during the last eight years to determine the efficiency of engineers in observing danger signals. The results show that a high standard of efficiency has been maintained, while the number of tests made has been constantly increased, having been nearly 3000 during the third quarter of the current calendar year.

Statistical Forms Used for Reporting and Compiling Results of Accidents

6. Blank form No. 2800, used for reporting monthly accidents in train service on steam railroad lines, showing number of accidents, property damage and personal casualties, classified as "Avoidable" and "Unavoidable," the causes of all collisions, derailments and other train accidents being separately reported. (This form has been in use by the company for many years.)

7. Reverse side of form No. 2800, summarizing accidents per 1,000,000 locomotive miles, with instructions covering preparation of the report.

8. To the left is shown form summarizing train accidents per 1,000,000 locomotive miles for each of the main divisions of the steam lines, prepared from information furnished on form 2800, the statistics shown on this form being for the month of September, 1913. To the right is shown form summarizing train accidents per 100,000 motor car miles on the various electric railroad properties operated or controlled by the Southern Pacific company, prepared from information shown on form No. 3427, these statistics being for the month of September, 1913.

9. Form No. 3427, used for reporting monthly accidents in electric train service operated or controlled by the Southern Pacific company, showing number of accidents, property damage and personal casualties, classified as "Avoidable" and "Unavoidable," the causes of collisions, derailments and other casualties being separately given; also statement of accidents per 100,000 motor car miles.

10. Statement prepared currently summarizing casualties to employees and passengers on this company's steam railroad lines in comparison with similar steam railroad statistics for all railroads of the United States; also statement giving like comparative statistics of the causes of collisions and derailments. The figures filled in on these statements are for the nine months ending March 31, 1913.

11. Statement prepared monthly on our lines summarizing industrial casualties per 1000 employees, classified under the various causes of such casualties; also copy of form No. 2812 on which monthly reports are made, giving the details of industrial casualties which are used in preparing the summarized statement.

Photographs Illustrating Accident Prevention in Shops

12. Showing possibility of accident because of dangerous stairway in roundhouse office building.

13. Showing method of preventing accident illustrated by photograph No. 12.

14. Railroad protection against accident from locomotives entering roundhouses.

15. Method of protecting gearing on emery wheel at shops.

16. Protection of gearing of bolt cutter to avoid accident.

17. Method of increasing gearing of lathe to avoid accident.

18. Protection of emery wheel grinder to avoid danger from breakage of flying particles.

19. Showing guards to fly wheel and crank of air compressor.

20. Protection of transfer table with hand rails and guards over wheels and the moving parts.

21. Showing hand railings on turntables.

22. Showing guards around planer and wire netting surrounding slotting machines.

23. Showing guards over band saws and protection of belting in carpenter shop.

24. Showing removable netting protection over gear sets of engine lathe.

25. Unprotected lathe in machine shop illustrating danger to which workmen may be subjected.

26. Showing same lathe as in No. 25, but with adequate protection to employes.

27. Unprotected wheel lathe in machine shop.

28. Same lathe as illustrated in No. 27 with gears incased.

29. Unprotected boring mill in machine shop.

30. Same boring mill as illustrated in No. 29 protected with safety devices.

31. Unprotected shaper in machine shop.

32. Same shaper as shown in No. 31 protected with various safety devices.

33. General view in San Antonio shop showing unprotected shop tolls.

34. Same shop as illustrated in No. 33 with safety devices.

Photographs Illustrating Accident Prevention in Yards and at Stations

35. Derails and stop signals for protection of car repairers in car repair yard.

36. Rack for caring for knuckles of automatic couplers to eliminate danger caused by piling them between tracks.

37. Turnstiles at cattle guard to enable trainmen to pass without crossing guards.

38. Showing dangerous condition of industry spurs previous to service of notice on owners to improve premises.

39. Same spur illustrated in No. 38 after premises were cleaned up.

40. Line of posts at station to keep vehicles a safe distance from trains.

41. Trestles used in car repair yard as safety support for cars which have been jacked up and under which men work.

42. Showing fuel oil fire in roundhouse extinguished in 30 seconds with four buckets of sand, this method being used for protection against such fires.

43. Hand rail and sidewalk on bridge typical of protection placed on all bridges near stations where employes may have to walk alongside of trains.

44. Showing hook used on locomotives so firemen may pull water and oil spouts to manholes without leaning out from locomotive to catch ropes on spouts.

45. Showing equipment of roundhouse tracks with derailleurs to prevent locomotives while in roundhouse running out into turntable pit.

46. Illustrating typical traffic viaduct over railroad yard to eliminate dangerous use of grade crossing.

Photographs Illustrating Accident Prevention in Train Service

47. Showing fireman slipping on top of engine tank due to carelessness of employe allowing oil (used as fuel) to overflow, which practice has been prohibited by special instructions.

48. Showing dangerous practice of fireman standing on water spout when taking water, which has been strictly prohibited.

49. Showing dangerous practice of brakemen catching rear end of engine tank, which is contrary to our rules.

50. Illustrating possibility of accident through rear brakeman riding head end of caboose and lining switch for main line before rear pair of trucks have passed over switch point. To avoid accidents of this kind our rules require brakeman to ride rear end of caboose and to see that all trucks have passed switch point before throwing switch.

51. Showing dangerous practice of kicking drawbars in line with feet, which is prohibited.

52. Illustrating dangerous practice

of switchmen hanging from sides of car while switching, with possibility of striking obstructions.

53. Showing possibility of accident through brakemen hanging on rear end of box cars with feet on trucks in such manner as to catch limbs.

54. Showing possibility of open stock pen gate striking brakemen on side of box cars.

55. Showing dangerous practice of employes coupling air hose while cars are in motion.

56. Illustrating brakeman improperly attempting to set brakes from top of box car, which has a platform on which he should stand for this purpose.

57. Showing brakeman changing knuckle of car separated from another car by only a short distance, our rules requiring that this distance be 30 feet or more.

58. Showing brakeman boarding locomotive pilot, a dangerous practice, which our rules prohibit.

Photographs Illustrating Block Signal System

59. Interior of automatic interlocking signal tower on one of our important heavy traffic lines.

60. Showing tracks and automatic block signals protecting approach to terminal at Oakland pier, California.

61. Showing block signal protection on heavy traffic main line carrying both steam and electric suburban service.

62. Automatic block signal protection on bridge.

63. Typical block signal protection on single track line, also showing train number indicators which we use on front of locomotive near headlight.

64. View of automatic electric block signal system on single track main line.

Standard Steel Rolling Stock

65. View showing all-steel passenger train on line of the Southern Pacific.

66. View showing heavy mountain passenger locomotive operated with cab ahead so that enginemen may have a better outlook than with cab in the usual position. This is rendered feasible because of use of oil fuel.

67. View of standard all-steel passenger coach used on Southern Pacific.

68. View of all-steel suburban electric passenger coach used on California lines in vicinity of San Francisco, California.

69. Interior of same car as shown in No. 68, illustrating ventilating and sanitary features, it being also noted that aisle in this car is arranged so that five passengers may be seated across width of car, which is unusually wide.

70. View of gasoline motor car used on branch lines of the Southern Pacific.

71. Interior view of gasoline motor car illustrated in No. 70.

Employes' Instruction Cars

72. Interior view of traveling instruction car showing method of instructing train service employes in train schedules and train operation.

73. Enlarged photograph showing charts and train schedules used for instruction purposes in car illustrated in No. 72.

74. View of block signal chart and model illustrating operation of automatic block signals under passage of small model cars shown by numbers in photograph, this method being used in the examination car for instructing and perfecting employes in observance of automatic block signals.

Traveling Hospital Car

75. Exterior view of Southern Pacific hospital car operated for the benefit of injured employes, showing door in side of car below window through which persons on stretchers may be placed in car.

76. Interior view of hospital car showing operating room.

77. Interior view of hospital car showing berths made up for accommodation of patients.

78. Interior view of hospital car showing appearance of car when not in use as traveling hospital.

Railroad Hospitals

The Southern Pacific company has maintained a very complete and efficient hospital department for the care of its employes for the last 45 years. Following views illustrate general and emergency hospitals:

79. View of building rented at Sacramento, California, for railroad hospital in 1867.

80. First general hospital of Southern Pacific company, erected at Sacramento, California, in 1869, this being the first hospital owned and operated by any railway in the world for the care of its employes exclusively.

81. View of general hospital erected by Southern Pacific company at San Francisco in 1899.

82. This hospital, referred to in No. 81, was destroyed in the San Francisco fire, its appearance after the

(Continued on page 8)

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**"Rose Maiden"
Friday Night**

(Continued from page 1)

- Chamber Mr. Rose
3. (b) Oh! Hear, Thou King of...
Beauty Mrs. Wagner
- (c) Nay, Why Should All My...
Gladness Mr. Fergusson
- (d) The Rose of Love, duet....
Mrs. Wagner and Mr. Ferguson
- (e) Lose, Then, the Peace for...
Ever Mr. Fergusson
- (f) Soon As the Mountain Sum-
mits, duet.....
Mrs. Wagner, Mr. Fergusson
4. (a) So Spake the Spring.....
..... Mr. Kennedy
- (b) A Maid More Beautiful Than
May, octet
- Mrs. Wagner, Misses Miller, White,
Coon, Rose, Walker, Mackinley,
Ferris.
- (c) Bloom on, Blossom
- Mrs. Wagner
5. 'Mid the Waving Rose Trees...
..... Chorus
6. (a) God Greet Thee.....
..... Mrs. Wagner
- (b) Ask of You Ruined Castle...
..... Miss Miller
- (c) Yet Chime They So Sadly...
..... Miss Miller
- (d) Alas! the Hand Is Thine...
..... Mr. Walker
- (e) Oh! Earth-born Sorrow...
..... Chorus
7. Hast Thou Wandered, trio....
Mrs. Wagner, Miss Coon, Mr. Jones
8. The Sleep of Even... Mr. Walker
9. (a) Hark, Beneath Her Window
..... Mr. Fergusson
- (b) I Know a Rosebud Shining,
duet. Mrs. Wagner, Mr. Rose
10. 'Tis Thy Wedding Morning...
..... Chorus
11. Where Gloomy Pine Trees Rustle
..... Mr. Walker
12. For from the Summer Blossom
..... Mr. Rose
13. (a) What Sounds There So Softly
..... Men's Glee Club
- (b) Farewell, Sleep Thou Lightly
..... Girls' Glee Club
14. Yea, E'en As Die the Roses...
..... Mr. Walker and Chorus
- Pianists—Miss Maud Denny and Mr
Ernest Corris.
- Director—Mr. Charles Haseman.
Chorus—Sopranos: Mrs. Wagner,
Turner, Kennedy and the Misses Mil-
ler, Steinmetz, Rushby, Walker, La-
Tourette, Goodrich, Herz, Hazlett,
Taylor, Perry and Marzen.
- Altos—Mrs. Dinsmore and Board-
man and the Misses White, Bartholo-
mew, Coon, Williams, Damm, Sameth,
Laden, Young, Neasham, Lemon,
Herz, Bird, Price, La Tourette, Hofer,
Mahan.
- Tenors—Messrs. Clark, Kennedy,
Johnson, Rose, Walker, Crowley, Lay-
man, Elliot, Scott, Enos.
- Bassos—Messrs. Ferris, McKinley,
Rivett, Mills, Wylie, Organ, Webster,
Ross, Glass, Harvey, Engle, McCreery,
Jones, Fergusson, Feemster, McQuis-
ton.

In order not to interfere with the
evangelical meetings being held by
Reno churches, seats may be reserved
at the Majestic box office after 10
o'clock Thursday morning so that
those who attend church may be as-
sured seats. These seats will not be
held after 8:30.

A KNOCKER

An exchange gives the following
definition of a knocker: "After God
had finished the rattlesnake, the toad
and the vampire, he had some awful
substance left with which he made a
knocker. A knocker is a two-legged
animal with a corkscrew soul, a water
soaked brain and a combination back-
bone made of jelly and glue. Where
other people have their hearts he car-
ries a tumor of rotten principles. When
the knocker comes down the street
honest men turn their backs, the an-
gels in heaven take precipitate refuge
behind their harps and the devil bar-
locks the gates of hell."

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Bob Bringham Of West Point

Nevada Athlete Writes to Reno Friends of Life at West Point As Seen by a "Plebe"

Friends of Robert A. Bringham, this year a plebe at West Point, have received a letter from that famous Nevada student and athlete which is full of interesting things for his friends here to read.

Bob writes that he spent a merry Christmas at West Point although he was rather homesick for the old Nevada people and surroundings on that day. He told of his receiving a box of candy through the mail. Eatables through the mail are rather tabooed at West Point, and there is an interesting little story connected with the candy before it was finally consumed by Bob and "Van," his room mate.

As a result of the first semester examinations 21 fellows left the academy. Bob writes that fortunately he was not one and the Sagebrush joins with the other Nevadans in congratulating him. The departure of one of these fellows leaves a place for a man from Nevada and so it is highly probable that we hear of another successful candidate for one with military aspirations from this neck of the woods shortly. In the letter Bob sent a specimen "skin list" to show some of the things that West Point men are given demerits for. When a cadet has received enough of these demerits he is expelled from the institution but there are punishments in between. These punishments consist principally in "walking the area" on Wednesday and Saturday afternoons, afternoons that would otherwise have been had for more pleasant occupations. Bob admits that he has done and is continuing to do several rambles on the area until the whole of a goodly number of hours have been so spent and he remarks that sometimes the winter wind is rather cold.

Bob was present at the New Year's dinner at West Point and in this letter he enclosed a souvenir dinner card containing the menu and toasts. On the back cover of the folder the words of "Army Blue" are printed.

"Army Blue"

"We've not much longer here to stay.
For in a month or two
We'll bid farewell to Cadet Gray
And don the Army Blue.

Chorus

"Army Blue, Army Blue,
Hurrah for the Army Blue,
We'll bid farewell to Cadet Gray,
And don the Army Blue.

"With pipe and song we'll jog along
Till this short time is through,
And all among the jovial throng,
Have donned the Army Blue.

Chorus

"To the ladies who come up in June,
We'll bid a fond adieu,
Here's hoping they will be married soon,
And join the army, too.

Chorus

"Here's 'to the man who wins the cup,
May he be kind and true,
And may he bring our 'godson' up,
To don the Army Blue.

RENO QUICK LUNCH

32 West 2d St. Phone 363
When you have but five minutes to eat.

The Reno Quick Lunch can't be beat; And for service you bet they're there, With the prices always fair.

And the Waitresses, four in all, You can hear them as they call— Waffles, Waffles, a Stack of Hots; Ham-and, Ribber, Fry Two on the Side.

Never stop or hesitate, but let 'em slide.

Now for the Catsup, then for the Sauce,

And a Cup of Hot Java made by the Boss.

Hot Mince, Baked Apples, Peaches and Cream,

Why any of these things are fit for a queen.

The Cooks in the kitchen are both lean and fat, They're the best in Reno, and mighty good at that;

SLATTS, the proprietor, so pleasant and fair,

Welcomes all the guests as they enter there.

But this is what I wanted to say, It's the Best Place to Eat and not a bit out of the way.

Consult Dr. John B. Koch, the registered optometrist, for your eyes.

Vol. Officers For U. S. Army

Congress May Pass Law Making One Year of Service Possible

As a plan to secure reserve officers for a volunteer army, a recommendation will be made to congress by the war department that a special list of 500 second lieutenants be created. These would be appointed from the graduates of colleges and possibly from the national guard. They would be commissioned in the regular army for one year, afterwards going on the reserve list, subject to call in the event of war. It is thought that an opportunity to serve one year in the regular army would prove very attractive to college graduates. They would not be required to provide themselves with all uniforms required of regular officers. Their uniform would be limited to the service uniform and every thing would be done to reduce their expenses to a minimum. Most of the students who are careful of their expense would be able to come out of the army after a year's service with savings which would aid them materially in obtaining employment. While these positions are to be open to graduates of all colleges, preference will be given to colleges where army officers are detailed as military instructors.

The adoption of this plan by congress would go far towards providing reserve officers for a volunteer army, the need for which is admitted by all thinking people. Incidentally it would be a great assistance to many college graduates, rounding out their education in a way not otherwise possible, giving them an invaluable training for a work which they would naturally take up in case of war, and at the same time, it would be possible for them to save out of the salary received, a sufficient amount to enable them at the end of their year's service to start off well situated financially in any chosen profession. This plan would mean but little expense to the country, and it is to be hoped that when it comes up for consideration in congress, it will receive the support and backing of Nevada's senators and representative.

All those who desire to play tennis will please pay the regular dues. The money received will be used to maintain the regular courts and to foster the games between the University of Nevada and other teams. Meetings will be held in order to put tennis on a more substantial basis. Money will be received by any of the officers of the club or by William I. Smyth, in the office of the comptroller. Pay at your earliest convenience.

By order of the
NEVADA TENNIS CLUB.

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

Hot coffee, hot chocolate, beef bouillon, at the Fountain, opposite the postoffice

Miss Jessie Hylton returned to college Monday and with her she brought "Brother Lee," who is registering again in the college of agriculture after remaining out of college a semester.

Mrs. Shannon, mother of Leo Shannon of the University of Nevada, has been visiting for several weeks at Manzanita hall. Her home is in Oakland.

Dairy Course Is Announced

By Blue and White Hand Bills of Design Selected by University Regent

That the department of agriculture is going to give a free winter short course in dairying there can be no doubt. Everyone must have seen those hand bills. They are a work of art. A farmer, surrounded by a horse, a chicken, a cow and a fowl and a pig, holds up a mammoth sign which announces to the world the following:

"Free winter short course in dairying at the University of Nevada, February 2 to March 7. Dairy bacteriology, buttermaking, cheesemaking, feeding farm animals, stock judging, boiler and engine laboratory.

"Program for farmers' week, March 7 to 14:
"Address, Dr. J. E. Stubbs, president of University of Nevada; address, Dr. H. E. Reid, chairman of board of regents; address, Dean Thomas Forsyth Hunt, University of California; address, Dr. Frank S. Harris, director school of engineers, Logan, Utah.

"Lectures and demonstrations on grain judging, experiment station and extension work, stock judging, home sanitation and hygiene, poisonous plants, soil fertilizer, meteorology, eelworm, buttermaking, cheesemaking, home economics, centrifugal pump, food and drug control, Parker house rolls, tuberculosis, banking, farm lighting, agricultural conditions in Europe, parade of university live stock.
"Reception at home of president."

A southern California boy several weeks ago wrote an article for the Sagebrush on his impressions of the University of Nevada. That same fellow wrote a letter to the principal of his high school about this university which the "Blue and White," a snappy little weekly published by that high school thought worthy of publishing. The following is taken from the Blue and White:

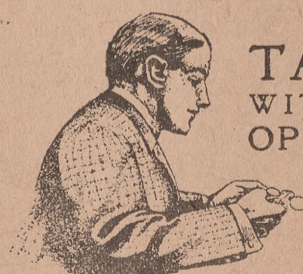
"I went to my first Block N meeting this week. Four other men and myself had won our "N" for the first time in football this season. The meeting was in the form of a banquet and we new men were presented with certificates of membership and the right to wear the "N." Next to me sat the only other L. A. High graduate at Nevada, "Bill" Powers, L. A. W. '10. He is a sprinter and won his letter last year in track, though he is the last person in the world one would expect to make good in athletics.

"I think that Nevada is the only university in this part of the country with ideals as high as those of my prep school, dear old L. A. High. I want to see more L. A. High men here.

"With an undying respect and affection for dear old L. A. High. I remain,

"EDWARD G. NORTH,
"L. A. H. S., W. '11."

The women of Manzanita hall are continuing their pleasant "at homes" which were so popular at the hall on Saturday afternoons of last semester.



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Adele Is Comedy Hit For Current Season



Nanette Flack and John Park, prima donna and baritone with "Adele" appearing at the Majestic Thursday afternoon and evening.

The attraction at the Majestic commencing Thursday matinee for two performances will be the production of "Adele," the biggest musical comedy success of the current season which was received in New York city at the Longacre theater by every dramatic critic in New York as an unqualified success. Its presentation here will be marked by the best singing organization seen on tour since the days of the famous "Bostonians."

The story of "Adele" briefly concerns a young French girl, Adele, who is in love with Robert Friebur, the son of her father's business rival, but cannot get his parents' consent to her marriage. She then persuades her father to arrange for her to be married to a member of the French nobility, Baron Charles de Chantilly,

who is a bankrupt, and upon whom her father is willing to settle a large sum of money. She plans, immediately after the marriage ceremony, to separate and secure a divorce and then marry the man she really loves, since by a provision of the French law, once having been married she is then free to marry without the consent of her parents. The baron at first refuses but finally consents and it is then that fate takes a hand and Adele finds that her heart is not with her first love and so complications pile up which at last are cleared away and the husband and wife live happy ever after. The music, consisting of 22 numbers are new, delightfully sweet and pleasing.

Nevada Defeats Stockton Forty Four to Thirty

"Some game," was the word that circulated around the hall at the enjoyable social that followed the Stockton Mercury-Nevada game in the gym last Saturday night. It was "some game." It was Nevada's first game for the season 1914 and she showed that she has the material for a coast championship contest. Coach Ross is duly proud of his basketballers. In an interview with a representative of the Sagebrush after the game he said, "We have the material and the team work to make them all go. You can say for me that we are in our infancy so to speak, in regard to team work. We have had only six or seven practices and no competition. With more competitive games we will have team work down to a system. We will also practice to get more accuracy in shooting baskets. The schedule for the next couple of weeks will be: Y. M. C. A. Wednesday, January 21, Wednesday night, January 28, also a practice game with the Y. M. C. A.; the University of California agricultural college team from Davis, Saturday, January 31. The practice game will begin early so as not to interfere with the boys' classes"

Henningsen, the varsity center, was

the star for the home guards, making a total of 16 points out of the 44. He allowed his opponent to make but two points. His fast work and manner in throwing baskets won for him frequent outbursts of applause. For the Mercuries Spayd was the real star, securing 16 points. During the game Nevada committed 16 fouls, which permitted Stockton to convert five times. Stockton fouled eight times, of which number three tosses were converted. The final score: Nevada, 44; Mercuries, 30.

At the conclusion of the game a dance was given in honor of the visitors. The affair was fairly well attended considering the weather. The two teams lined up as follows:

University of Nevada—Forwards, Sheehy (capt.), Ferris; center, Henningsen; guards, Painter and Jepsen. Krummes replaced Ferris at the start of the second half and during the last half Smyth replaced Jepsen.

Stockton Mercuries — Forwards, Spayd and Social; center, Covell; guards, Watson and Norton.

The splendid showing of the university team is due to the coaching of Si Ross, graduate manager of college athletics.

Sleighting was pretty good last Sunday. At least that was the verdict passed by 13 hall girls who spent the afternoon as a jolly sleighting party.

Rumors of an L. F. G. invitation are rife. There are at least six eligibles who have not been initiated into its mysteries yet and are very anxious to fall prey to the victims of last semester.

Y. W. C. A. MEETING

If you are interested in basketball or not, the Y. W. meeting this week is for you. The meeting will take the form of a rally and will be led by several girls who are to give short talks. Miss Marjorie Goodrich will sing. The time and place of the meeting is as usual, Wednesday at 4:30, room 6. Every one is urged to be present.

MOTHERS SHOULD BE CAREFUL

Children's Teeth when they first start to decay cause no end of trouble, to say nothing of the loss of the TEETH that otherwise with a little attention might be saved.

It's no trouble to bring the boy or girl in here a few moments. We will examine their teeth carefully and without cost or obligation. If there is any trouble to be corrected, we will tell you of it and what it will cost. On the other hand, if there is no trouble we will likewise tell you, and such satisfaction of actually knowing ought to be worth the time devoted to coming in. Our charges are REASONABLE.

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"Safety First" All Complete

(Continued from page 4)

fire being illustrated in this photograph.

83. View of general railroad hospital erected by Southern Pacific company at San Francisco in 1909 at entrance to Golden Gate park.

84. Interior view of general hospital, showing operating room.

86. Roof view of general hospital, showing solarium.

87. Interior view of general hospital showing typical double room.

88. Interior view of general hospital showing system of inclines in place of stairways.

89. Interior view of general hospital showing laboratory.

90. Interior view of general hospital showing social hall.

91. View of employees' building adjacent to general hospital.

92. Exterior view of power plant of general hospital.

93. Interior view of power plant of general hospital.

94. Interior view of power plant of general hospital.

95. Exterior view of general hospital of Sunset-Central lines.

96. Operating room of general hospital at Houston, Texas.

97. Sterilizing room of general hospital at Houston, Texas.

98. Corner of ward in general hospital at Houston, Texas.

99. View of division hospital erected by Southern Pacific company at Sacramento, California.

100. View of standard emergency hospital such as erected by Southern Pacific company at various division headquarters on its lines.

101. View of office of standard emergency hospital.

102. View of dressing room in standard emergency hospital.

103. View of dressing room in standard emergency hospital.

104. View of ward in standard emergency hospital.

Club Houses for Improvement of Social Condition of Employes and Which Tend Thereby to Add to Their Efficiency

105. Typical club house illustrated by this view of club house at Roseville, California.

106. Library and reading room of employees' club house.

107. Library in employees' club house.

108. Reading room in employees' club house.

Unclassified Photographs

109. Showing hose carts, chemicals and building for housing shop fire apparatus.

110. Showing typical fire pump used in connection with other apparatus and system of water plugs to give fire protection to shops.

111. Showing method of protecting wood planer in general shops at Sacramento, California.

112. Showing overhead runway to provide safe footing when ailing shafting and adjusting overhead belts.

113. Showing typical method of keeping material yard.

114. Showing battery room at Fruitvale, California, power station, properly wired and lighted.

115. Showing improved arrangement for scaffolds in paint shop.

116. Showing wood blocking of tracks radiating from roundhouse.

117. Showing tool room and general conditions in electric car shop.

118. Showing typical warning sign for protection on car repair tracks.

119. Showing method of protecting moving parts in power house at West Oakland, California.

120. Showing protection of wood working machinery at Oakland, California, marine shops.

121. Illustrating railroad company's method of flagging across an existing grade crossing in a Texas city to avoid accident.

122. Showing present method of flagging street cars over railroad crossing at grade in a Texas city to avoid accident.

"Safety First"

123. Form of circular outlining organization of the bureau of safety.

124. Sample page from monthly report of the general committee of the bureau of safety.

125. Memorandum concerning "Safety First" committees.

127. Sketch showing banner awarded on each general superintendent's district to division showing best record in observance of safety methods.

128. Statement showing casualties to employes in September as compared with number of hours worked.

129. Copy of accident report of Pacific system in competition for E. H. Harriman memorial medal.

130. Copy of accident report of Sunset Central lines in competition

for E. H. Harriman memorial medal. 131. Copy of accident report of Arizona Eastern in competition for E. H. Harriman memorial medal.

132. Samples of "Safety First" buttons used on Southern Pacific lines.

The fact has long been recognized that the industrial establishments of the United States have been seriously handicapped by the lack of a sufficient number of highly trained employes, and the lack of special training necessary to develop a class of employes, fully equipped to undertake the management of the various branches of manufacturing industries.

With the view of securing to all manufacturing interests located at Lomax, Illinois, the advantage of being in a position to secure a highly trained class of employes, and to secure for all small industries and generally for the inventors of the United States, an opportunity to develop new manufacturing projects under highly favorable conditions, the Lomax Town company, proposed to establish at Lomax an institution to be called the Industrial university, having for its object, the upbuilding of all industrial establishments to be located there.

It is proposed to organize the institution with a board of control, composed of highly trained experts in mechanical engineering, electricity, chemistry, advertising, and business management, with other branches added as the needs of the institution may develop.

Under the management of this board will be organized:

1. A trade school for the special training in all industrial lines, of all who may desire such training, free of charge.

2. A technical school for higher training in mechanics, chemistry, electricity and factory management.

3. An inventors' department for the benefit of all inventors of the United States with undeveloped or partially developed ideas, which may be worthy of the assistance of the institution. The main branches of this department will (a) give free advice to the inventor; (b) assist him in obtaining patents; (c) furnish manufacturing capital, if needed; (d) see that he gets fair play throughout the entire process.

4. A department of research for the benefit of all industries in conducting special investigation to secure improved methods of manufacture; and the development of new processes for the benefit of any or all local industries. The use of complete laboratories and facilities offered in the use of specially equipped shops, foundries and testing apparatus, will be of immense value to the manufacturer who will not be required to install an expensive laboratory for individual requirements.

The town of Lomax, Henderson county, Illinois, is, first of all, founded for the betterment of mankind.

All profits from sales of property are devoted to improvement and extension of the city. Large and beautiful parks are planned and being improved rapidly.

Industries may have sites, buildings put up, and other improvements, on a basis of 2 per cent on actual cost, with free power for 30 years. Homes will be built for all, on a rental payment plan, so liberal as to make it possible for any workingman to have one of his own. While awaiting this, he is furnished a small house (200 of which were built in 1913) at \$3 to \$5 per month, and they are all occupied now, by people awaiting spring operations.

In fact, the plans are so comprehensive and full of details for the good of all, that no effort can be made to describe them in a short article; among them being freedom from congested tenement quarters, saloons, gamblers, and the undesirable races. These features are not left for future leaders to change, but by the foresightedness of the founder, are protected by a trust deed and trusteeship forever.

Thus, this university plan, although so great in itself, is but one of the many wise provisions, that will, in the opinion of the writer, make of Lomax one of the most prosperous, ideal cities in the world.

Appreciate your opportunity.

An education is a valuable asset.

Are you willing to receive yours for nothing?

An athletic card is all you need; buy one at Nevada.

Two hundred students were dropped from the rolls of the university last semester on account of their failure to make eight units. According to the statement of James Sutton, recorder of the faculties, this is about the average number dropped each semester.—Californian.

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

Y. W. C. A.

Y. W. C. A. Weekly Teas to Become
An Institution

On Tuesday afternoon, January 27, the Y. W. C. A. girls will hold their first regular weekly tea in the rest room. All college girls and ladies of the faculty are earnestly desired to drop in and have social chat and refreshments for at least a few minutes between 4 o'clock and 5:30.

The social committee will be hostesses on the first occasion, and thereafter different Y. W. girls will have charge each time. Miss Maude Price, chairman of the social committee, especially desires each girl on the campus to make it a point to bring her chum or her classmate and join the jolly group of friends who will be in the ladies' sanctuary on these happy occasions, for a moment of relaxation after classes. Girls, remember the first one, Tuesday, the 27th, and you'll never forget the regular date after that.

FRESHIES WIN

The Freshman basketball team journeyed to Lovelock on Saturday to meet the Lovelock five.

In one of the fastest and roughest games of the season, the freshman basketeers came out victors by the scant margin of two points.

Lovelock in the first half piled up 11 points against the 7 of Nevada. In the second half the boys from the university woke up, got together and finished the game with a score of 19-17 in the U. N. freshmen's favor. The teams lined up as follows:

Freshmen—Chism, guard; Organ, center; McLaughlin, forward; Hodgkinson, forward; Bryant (manager), guard; Hood, sub.

Lovelock—Tuss, guard; Neuzel, center; Dodd, forward; Beison, forward; Tuss, guard.

Referee—Heward.

LOTS of professors who don't call themselves "young men" like the smart, snappy styles that are called young men's styles; their own sons maybe wear the kind of clothes they like to wear themselves.

Hart Schaffner & Marx have made some very attractive models for these dressy middleaged men; and we show in our illustration one of these models.

You see how very smart it looks; a 32-inch single breasted, two button coat, with long, broad lapels; the waistcoat has six buttons.

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