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STUDENT RECORD



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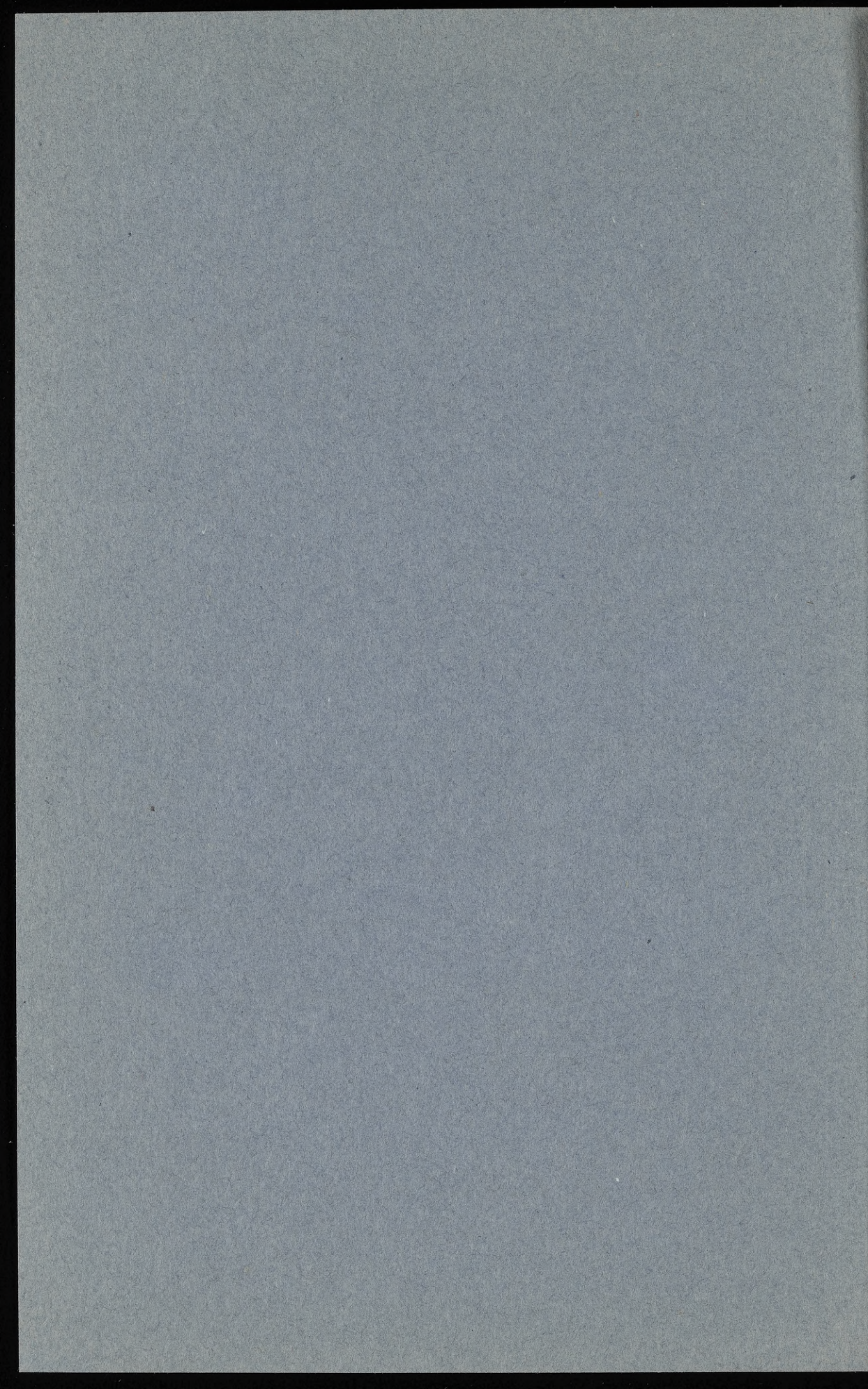
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VOLUME XI

NUMBER 7






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THE STUDENT RECORD

DECEMBER 1, 1904

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EDITORIAL

As soon as it became known that Alfred Hamlin, the center rush of the Nevada football team, had been injured while representing his college in the big game at Berkeley, the students of the university, voluntarily, raised sufficient funds to defray the injured football hero's expenses, during his stay at the East Bay Hospital at Oakland.

A Spirit Commendable

This brotherly spirit manifested by the Nevada college men, is one that should appeal to the heart of man. It is something that the people of this state should, and have a right to feel proud of.

The 1904 game, at the University of California, will long be remembered by Nevada, not only from its true sportsmanlike point of view, but that the Nevada eleven, battling as it was against great odds, with many of her best players injured, put up the gamest fight in the history of Nevada athletics.

That Alfred Hamlin should be so injured, in the annual college game, caused many loyal supporters, of the true blue, to shed tears of sympathy, and when he is able to leave the hospital, and returns to the university, he will find that our appreciation for his efforts has only been weakly shown in the contribution of funds. May our injured hero soon be with us.

Many of us are this year, and were last year, holding on to a great many things that we should have let go—shaken off entirely. We should expel **Holding On And Letting Go** from our minds, completely, the things which cannot be helped—our past misfortunes—the trivial occurrences which have mortified or humiliated us. Thinking of them is not only productive of no good, but it robs us of peace and comfort. The art of forgetting useless things is a great one, and we should learn it at any cost.

It is just as important to learn to let go as to hold on. Anything that is a drag, a stumbling block, or a hindrance, should be expunged from our memory. Many people seem to take a positive pleasure in recalling past misfortunes, sufferings and failures. They dwell upon such experiences and repaint them, until the mind becomes melancholy and sad; when they should be banished forever.

Life is so short to dwell upon things which only hinder our growth. We want and need all we can get of sunshine, encouragement and inspiration. If we keep the mind filled with bright, hopeful pictures and wholesome thoughts—the things only which can help us on and up in the world—we shall make infinitely greater progress than by burying ourselves in glowing retrospection.

One of the first lessons in life is to learn to be absolute master of one's own mind; to clear it of its enemies and to keep it clear. A well trained mind will never harbor thoughts inimical to success or happiness. You have the ability to choose your mind's company. You can call up at will any topic or any guest you please. Then why not choose the noblest and the best.

One of the most enjoyable events of the year was the 1904 football banquet. The affair was enjoyable to those who attended in many ways. **The Football Banquet** The word "spirit" was instilled into the players in such a manner that the team of next year will be a victorious one. Harry Jones, '06 was the favorite for captain and was elected without any opposition. He will without doubt fill the position in an able and efficient manner. Many toasts

were made by the members, and the party at a late hour left the banquet hall with three cheers for Coach Shorts, ex-Captain Steckle, Manager Bulmer and Captain elect, Jones.

The last two issues of the Record were under the guidance of J. D. Case, '05, who so willingly took charge of the paper during football season.

Valuable Assistance

His efforts are to be highly commended, for the sixth edition is the best number that has been published this year.

In the near future the co-eds will be given the paper for one or two editions, and it is sincerely hoped that in squaring matters with the boys they will strike hard.



Hiram's Reflections



We've bin a durned brave nashun.
 We've fit a lot of wars,
 An' jes' because we're lucky,
 Our old eagle he still soars;
 And 'll keep on soarin' grandly
 Till some nashun w'at kin shoot
 Will put us out of business quick,
 And swipe a lot of loot.

W'at's the use of our manuvrin'?
 W'at's the use of guns an' drill?
 W'en the shootin' of the nashun
 Is so rank it makes you ill?
 W'en the hull doggon'd caboodle—
 'Cept some fellows on the teams—
 C'udn't hit a great big barn door
 Even in their wildest dreams.

W'en we fit fur independince,
 Ev'ry man c'ud shoot a gun
 An' the pickin' off the redcoats
 Was a most amazin' fun.
 An' w'en we fit in 1812,
 W'en *rifles* was the game,
 We dubbled up the British Troops
 And *some* went home real tame.
 Ain't I rite?



Development of Nevada



IN the state of Nevada are 1,000,000 acres of arid land, acres on which nothing is grown and on many of which nothing lives, save the rabbit and the lizzard, yet could be reclaimed if the water flowing in all the rivers of the state could be utilized. The Southern Pacific railroad, through the greater part of its course in the state, runs directly across this great barren area. It is this fact that has caused many writers to deceive their eastern readers with the statement that "all Nevada is a desert." In passing from the green fields of California to the green mountains of New England, it is not strange that the dry unbroken wastes of desert in central and eastern Nevada should wring from them unfavorable report. But to call all the state a desert is wrong, for it has fertile valleys, though they are for the most part hidden from the eyes of the traveler. In these valleys is the largest average farm, giving the largest average yield per acre of wheat and potatoes of any state in the union. Much of this land was at one time barren, but small, private irrigation systems have made it bloom. This is a proof that the 300,000 acres of land to be reached by the first great government project will, by the magic touch of water, yield handsome returns to the husbandmen who till it. This first great area to be reclaimed lies mostly in Churchill county and much of it along the line of the railroad. Yet a few years and that eastern writer will find a new oasis by the way, and if he comes again, in a dozen years, he will wonder if the railroad is located on another right-of-way, or the moisture trust has absorbed Nevada.

Who, it has been asked, will claim this desert land for a home, even after water be made to reach it? Will the poorest of the East leave the little patches, even though they barely yield a living, for a new and desert land with all its uncertainties, and which in the end, after the struggle, can offer them only a little more independence? But what of the natural increase of the nation and the 1,000,000 immigrants who yearly reach our shores. Thousands are lured from the east each year by exaggerated stories of that truly great state, California. They continue to increase each year and soon cannot all be absorbed. They will surge against the Pacific shore only to meet disappointment and then gradually work backward on the course they came. Just beyond the Sierras they come again on those great areas of unsightly soil and this time look more closely. The numberless acres are not covered with waving grass or studded with happy holmes. But that traveler, weary with the search, will see the possibilities. He will know

that by the aid of water, so soon to reach it, man's energy can make there a home where happiness and plenty may reign. The equilibrium of the masses must be maintained. Land that will yield the necessities of life, will not long be thickly settled here and sparsely inhabited there. The stored waters of early spring will be brought within reach of the land, men to till it must come, and the eastern scribe will needs revise his book.

The Truckee-Carson Project

Red letter days are no less a feature in the development of a state than they are in a nation's history. Free Americans observe the Fourth of July as befits the anniversary of such a nation's birth. Also as citizens of separate states, they feel kindly toward other days that are "marked ones" in the history of the separate commonwealths. We of Nevada remember, with reverence the anniversary of the day when silver was discovered on the Comstock; also when the first through train, from the east to the west, thundered along through our valleys. There is also another day, but recently past and unrecorded, yet whose early sun saw a work begun that means more to the state than did all the mines of Virginia City, and second only to the benefits derived from the trans-continental railroad. The date on which the first earth was removed from the site of the "Lower Truckee Canal." Few of us know and that few will doubtless soon forget, but it marked a new era in the development of Nevada and another generation will think more of it than do we.

The general outline of the irrigation project now under way is to take the flood waters, and other surplus of the Truckee river, across to the Carson and there to store it, with a portion of the water of that river, in a great reservoir, until such seasons as it is needed on the great area of land which the reservoir overlooks.

Between, and including, the months of October and March scarcely any of the large volume of water flowing in the Truckee river is needed on the cultivated land along its course. It rushes down from Lake Tahoe and the mountains, turns a wheel of industry here and there, then rushes on to mingle with the water that has gone before, into the great Pyramid Lake. Here much of it seeps into the earth and more is lapped up by the sun and wind and carried to the clouds overhead, which are in turn pushed by the wind past our borders where, in the form of rain, it falls to make productive the soil of our sister states. But those states will miss it in the future, for by the aid of the government it is to remain and help make productive the state that needs it most.

To carry out the project, a large canal, now nearly completed, to connect the two rivers had to be constructed. The concrete diversion dam, now under way on the Truckee is about twenty-three miles east of Reno, ten

miles up the river from the old town of Wadsworth and two and one-half miles below what is known as Clark's station, on the S. P. railroad. From this point the canal follows the contour of the hills, on the south side of the river for ten miles and here, just opposite Wadsworth, it leaves the river and winds along through the uneven country to the south. The canal still runs in the same general direction as the railroad, but not parallel to it, for the former makes several great, gradual bends in order to keep the higher ground along the edge of the foot hills. At the Black Butte, a black, rocky hill near Hazen, is a gap in the chain of hills through which the canal passes. Here it leaves the railroad and in a direction nearly at a right angle with its former course, and still along the edge of the foot hills, it heads straight for the Carson. When within two miles of the river, however, it turns again and for four miles it runs at an angle to the river, but in an opposite direction, when it reaches the reservoir site.

The total length of the canal is thirty-three miles. The average section of the first division, before the beginning of any complicated branch is reached, would have a width on the bottom of twenty feet, on the top, of fifty feet and a depth of fifteen feet. There are, however, along the canal, cuts of from seventy to eighty feet on the upper side and some of these through solid rock. Along its course are three tunnels, two of them through rock and one through earth, with an average length of one thousand feet. The canal would perhaps carry one-fourth of the water flowing in the Truckee during the flood season.

The storage reservoir is a natural one, being a portion of the canon of the Carson river. This canon widens in places into basins. Here the water will, when the reservoir is full, have a width of two or three miles. The river along this course has a considerable fall, yet the retaining dam will, with its perpendicular height of upward of one hundred feet, back the water up for twelve miles. The depth of water will vary from the depth given it by the height of the dam, at its lower end, to but a few feet of the upper end, and over considerable portions of the upper and wider basins. Its average depth will perhaps not be more than one-third the maximum.

The retaining dam will be situated just where the canon begins to widen out into the great Carson sink country which contains much of the land to be reclaimed. The site is in a narrow part of the canon, whose almost perpendicular sides are composed of firm ledges of rock. The average width of the canon here is about two hundred and fifty feet. Whatever may be the composition of the dam it must necessarily have a massive bulk as the pressure of water against it will be enormous.

The work when completed will have been a great achievement. The ingenuity of the scheme and the precision with which the work has been

carried on, since once it was started, are typically American. And when it is completed, be that one year or two, Nevada will say to the men who planned it, to the men who constructed it, and to the national government which fostered it—"Well done."



Rifles and Bullets



By **WALTER G. HUDSON, M. D.**



TARGET shooting as a sport has been more or less sharply divided into match rifle shooting and military rifle shooting. The points in which the match rifle differs from the military are its lighter trigger pull, finer sights and better finish; and, in addition, various departures from military style are allowed in the way of special attachments, buttplates, heavier weight of barrel, etc. The match rifle also is developed with accuracy as its chief aim, and accuracy at the particular distance it is to be used, while the military rifle has to be adapted to all ranges, and be strongly built and serviceable under adverse conditions, even at the expense of some accuracy.

In view of these considerations, it is scarcely to be wondered at that the target rifle developed with the sole object of shooting from the off-hand position at 200 yards, as in vogue by the German-American (Schuetzen) clubs, should differ so much from the long range match and military rifle. The Schuetzen rifle has changed but little in many years, and in its present form is probably as near perfection for its purpose as it is possible to get. Most of the modern Schuetzen rifles still use black powder, and in the finest American makes the bullet is pushed down from the muzzle as in the old muzzle-loading rifles. They are extremely accurate, and the shooting is generally done on sheltered ranges; so that this kind of shooting brings the game down to merely one of skillful holding.

On the other hand, the long-range match rifle has of late years approached more and more closely to the military; so much so that most of the match rifles now in use in England are merely military rifles fitted with fine target sights. *Skill in shooting at long ranges, whether with military or match rifles, involves not only good holding, but also a knowledge of the effects of distributing factors, such as changes of light, wind, barometric pressure, temperature, etc.*

It must not be supposed, however, that Schuetzen rifle shooting is of no value to riflemen who aspire to honors with the military or long-ranged

rifles. It has the advantage of using cheap ammunition, it is generally done on ranges provided with facilities that insure comfort to the shooter during even the coldest and most disagreeable weather, and it is the best possible training for fine holding. Therefore it is far better for the rifleman who would keep in practice to shoot 50 or 100 shots at 200 yards, say once a week or two weeks during the winter with a Sehuetzen rifle, than to abandon the game altogether during cold weather. There are a large number of civilian riflemen who confine themselves almost entirely to this kind of shooting, and who are nevertheless very well posted and skillful riflemen, able to take up other branches of rifle shooting at short notice; and their skill in holding, and intimate knowledge of many of the technicalities of the rifle learned by long and careful practice with their own weapons, certainly put them far in the lead of the novice, no matter what other branch of rifle shooting they adopt.

Long-Range Shooting

Undoubtedly in long-range shooting the rifleman finds the highest development of the sport. And in late years, since the advent of the modern smokeless-powder rifle of high power and small calibre, it is gratifying to note, in the American as well as in the British weapon, that the military and match rifle have approached very near to each other. In the old black powder day the match rifle, with its paper patched bullet, heavy charge of powder, and necessity of cleaning after each shot, was a far different weapon than the military rifle. In those days to attempt to shoot 1,000 yards with a military rifle would have been considered the height of folly. But now there is little difference in the scores made with match and military rifles at these long ranges. Indeed, our Krag, when a good barrel can be selected and when the drag is removed from the trigger pull, is, in the opinion of many expert riflemen, fully capable at the mid and long ranges of holding its own *against the finest match rifles that can be produced*. There are few target sights that afford better aiming than the 1901 model Krag sight, and while it is true that the target sights as a rule are further apart and adapted to the back position, the modern high-power rifle seems to shoot so much better from the prone position as to more than compensate from any slight advantage the target sights might thus gain over our military sight. A glance over the records of those long-range matches of recent years that have been open to both military and match rifle will show that in 90 per cent of the matches the Krag has come out victorious. Indeed, the remarkable accuracy in the high-power rifle within the past few years has not been due to any particular refinement in the weapon or sights, but solely to the improvement in the bullet and in the more uniform measuring of powder charges.

To deal understandingly with the differences that have taken place in

rifles since the adoption of the high-power principle, it will be necessary to look a little into the principles governing all rifles. A rifle may be regarded as an implement embodying all the resources of science and art in the effort to throw a projectile far, swiftly and accurately. The projectile is acted upon by the natural forces precisely as is a stone when thrown from the hand, the differences due to the higher velocity of the bullet, being in degree and not in kind. The mystery that in the minds of the uninitiated is supposed to attend the flight of a bullet is chiefly due to the fact that the bullet cannot under ordinary circumstances be observed in its flight and its motion watched, like the stone.

The first thing that may be taken as true of all projectiles, no matter how thrown, is that they fall toward the earth as soon as the support is removed from them, just the same as if they were not projectiles. But even while they are falling, the energy applied is driving them ahead. From this it will be clear that no weapon, however powerful, can drive a bullet so fast that it will go in a straight line—it immediately begins to fall as soon as it leaves the barrel, unless the latter has been directed upward to some extent, in which case, besides its forward motion, it will rise until the upward force also imparted to it has been expended, and then begin to fall according to law of falling bodies—slowly at first, but faster the further it falls. *The flight of a bullet, therefore, is always in a curved line.*

It does not seem as though air would offer much resistance to the passage of a body through it, but anyone who has ridden a bicycle knows that it does. Moreover, the resistance of the air increases much more than proportionately with the speed of the moving body, for if the speed be doubled, the resistance will be more than quadrupled. The air, therefore, becomes a much more potent factor in retarding the progress of a bullet than of the stone thrown from the hand, even though, weight for weight, the bullet presents less sectional area. The forward motion of the projectile; therefore, will become slower the further it travels, while its falling speed is continually increasing owing to the laws of gravity, and for this reason the further it goes the more curved will be its flight, until at last it drops to the ground.

Why Lead is Used for Bullets

It is evident that the greater weight a bullet has in proportion to its sectional area the less will be the degree of resistance opposed to it by the air, other things being equal. An athlete could not throw a cork as far as a boy could a piece of lead of the same size and shape. Therefore the heaviest available material—lead—is used in the manufacture of rifle bullets. For the same reason the modern bullet maintains its velocity much better than the old round bullet used in the musket and early muzzle-loading rifle.

But when a bullet is made longer than its diameter, some means must

**SOCIETY NOTES**

The Crucible Club held its first meeting of the year on the 16th of last month. Professor J. A. Reid, was elected president, H. B. Bulmer, vice president and C. C. Smith, secretary and treasurer.

Professor George Young was the speaker of the evening. His subject was "Tonopah—Its Mines and Geological Formations." The subject was handled in a masterly style, and many valuable points were absorbed by the members. Professor Young went deep into the geological side of the subject, and showed that, outside of a small area of country in the immediate vicinity of Tonopah, the ore deposits lie far beneath the present surface.

At some future date Professor Young will again speak before the club and will confine himself to the methods of mining now in use at that camp.

Five new men were recently initiated into the mysteries of the T. H. P. O. They were Dad Skinner, Dwight Leavitt, Julius Parry, Pierce Evans and Stewart.

The T. H. P. O. fraternity enjoyed the hospitality of John Wright, the assemblyman elect. After the regular meeting the members repaired to the Turtle, where a bounteous spread was served by Mr. Wright.

The Sigma Alpha fraternity gave a house warming on the evening of the 18th, at their home on Elm street. A very enjoyable time was had.





CAMPUS NOTES



Miss Laura N. Smith, '96, was married to Wm. G. Anderson, a mining expert of Salt Lake, on the evening of November, 22, at the home of Miss Smith's parents on west 9th street. The wedding was attended by a few friends only, but was a very pretty affair. Miss Edyth Keddie was bridesmaid and Bren. Smith acted as best man. After the nuptial knot was tied, Mr. and Mrs. Anderson left on the east bound train for New York. They will make an extended tour of the East, following which, they will return and reside in Salt Lake. The Record wishes them continued success and happiness.

Fred Bristol, '92, has been promoted manager of the Robinson Deep mine, in the Transvaal, South Africa. This promotion brings his salary to \$15,000 per year, which is undoubtedly the highest pay being drawn by any U. of N. graduate, although several others of our alumni, in South Africa, and also in Mexico and Central America, are commanding very high salaries. Mr. Bristol is certainly to be congratulated upon the manner in which he has met and mastered the rapid succession of advances which his progressive ambition has brought to him, during his comparatively short mining career.

The university is in receipt of six modern rifles, of the new Springfield

type. These weapons are the most useful articles received from the War Department for many moons. A requisition has been sent to Washington for 5000 rounds of ammunition, and as soon as it arrives the Cadets will be taught how to handle the most effective arm used among the nations of the earth.

A PAINFUL ACCIDENT

Professor Robert Lewers met with a very painful accident last week while riding on his bicycle. He was run down by a big automobile and narrowly escaped death. Fortunately no internal injuries were received, and in a few weeks the Professor will be able to hear his classes. The sympathy of the entire student body goes out to "Bobby" Lewers, and may he soon recover.

The football team recently had their picture taken. It was the intention to postpone the picture until after the final trip, which lately has fallen through, had been taken, but owing to the fact that Menke, Nevada's right guard, was suddenly called to St. Louis, it was decided to take the picture somewhat sooner than was expected.

Emmet Boyle, '99, manager of the North Rapidan mine at Como, leaves in a few days for Pittsburg, Penn., on mining business.

The 1904 Artemisia will be among the best books that have ever been issued by a graduating class from this institution. Editor Standerwick is working hard, as well as is Manager Bradley. Many new and original joshes will be given space and some of these alone are worth the price of the book.

There was no general assembly on the 12th, but in its place the faculty met with many prominent engineers and citizens and discussed methods of improving the work along certain engineering lines. Just what was accomplished cannot at this time be stated.

George Lyman, ex '04, came up from Stanford to attend the wedding of Miss Martin. He spent Thanksgiving with his relatives in this city and returned to Palo Alto the day following.

Harold Louderback, '05, was recently married to Harriette Colyer, of this city. The Record extends best wishes to Harold and his fair bride. May they live long and happy.

Professor and Mrs. Gordon True have returned from an extended tour in the east. They will make Reno their home. Prof. True has resumed his work as head of the Agriculture School.

The Editor of the Record is in receipt of a souvenir of the Russian

army, at Liao Ho. It is a piece of the daily food of the Slavs, and is hard enough to break a woodrats teeth.

Stanford Weathers, ex '06, who has had a hard struggle with death at West Point, is now almost entirely recovered. He underwent two operations for appendicitis.

Captain Linscott, former Commandant of Cadets at the University, passed through Reno on the 20th, for San Francisco. Scotty expects soon to leave for South Africa.

Lieutenant Bulmer, of the U. S. Navy, has returned to Nevada on a visit to his parents. Mr. Bulmer is a graduate of Annapolis.

Claud Smith is at present serving with the U. S. Land inspector at Deeth. He expects to return in time to take final examinations.

A. M. Smith, '01, has severed his connections with the Abangarez Co., of Costa Rica, and is now with Corinthian Mines Co., at Esparta, Central America.

It is reported that Gus Sielaff will spend Christmas with his sister in Reno. He is at present Manager of the Boston Mine, in Costa Rica.

Harry Price, '04, is in from Wadsworth, near where he has been engaged in the engineering department of the Government Canal.

Coach Shorts departed on the 16th for Alaska, where he owns many large mining properties.

Bren. Smith, '02, Assistant State Geological Engineer has gone to Lovelocks on business.

James McVicar, '02, spent a short time on the campus last month.

Coach Hoffman recently went to Susanville with the Reno High School football team.

Alfred Hamlin is expected home within the next few days.

Several Cadets have recently been suspended from the university for not attending drill.

At the meeting of the Social Club held in the Gym., on the 12th of last month, there was a small attendance.

A. W. Keddie, '01, spent several days in Reno last week.



FUNNYGRAPHS



SENIOR TO SENIOR

"Hello!"

"Hello! Is that you?"

"Yes. Is that you?"

"Well er, are you going to have *anything* on tonight?"

"No."

"Alright then, I'll come over."

Prof. Y.—In this mine it was found there was a larger consumption of powder.

A. I.—Was it miner's consumption?

'Twas a Friday night and a nice large night. They strolled leisurely upon the campus. It was eight o'clock, the dance had not begun. Slowly they walked up to the Gym. It was dark. They surely must be early. They would sit upon the steps and wait till the manager came to light up. They talked. They dreamed of the four years still to come. Then silence fell. A distant clock chimed. They started. "Ten o'clock!" A breeze stirred. A paper fluttered from the Gym. door to their feet. In the pale moonlight they read, "Social postponed till Saturday night. Manager."

"What is his rank? A Senior? Why I thought he was only a first prep."

From station sign, Oakland depot—Oakland, elevation 8 feet.

From a member of Mills College—No the basketball team could never play in Reno. The players are nearly all Hawaiians and can hardly stand the altitude of Oakland.

The Miller has found a new flame. Keep cool Adjie, don't flare up.

Prof.—There is a considerable loss of head by the time the water reaches the city.

Mr. B., '05—Then it ought to be hot?



Prof.—No.

Mr. B., '05—I don't understand how you can loose your head and not get hot. It seems to me the water should become heated.—At this juncture Mr. B. was taken home and put to bed.

1st Senior—Does he sing?

2nd Senior—Well he ought to, he has canary bird legs.

She muttered. He swore. If he had only believed the information his friend gave him. But nobody knew. No one cared. They were only Freshmen.

	EXCHANGES	
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He—I wish you could make pies like mother used to make.

She—And I wish you could make dough like Pa used to make.

1st Football Player—Did you stop him?

2nd Football Player—Yes. He put his finger in my eye and I closed the lid on him.

As seen by our mothers.

A rush, a scramble,

A tackle, A fall,

Six wounded, three senseless

Four dead—that's football.

Prof.—Have you been through Calculus?

New Student—Not unless I came through in on my way out here. You see, I came from Missouri and was asleep part of the time.

Mike—(to Pat painting his barn)—Hey, Pat, what are you painting so fast for?

Pat—I want to get through before my paint gives out.

“Evolution” quoth the monkey,
 “Makes all mankind one kin,
 There’s no chance at all about it,
 Tails we lose, and heads we win.”

Junior—Professor, I am indebted to you for all I know.

Professor—Don’t mention such a trifle.

What did the editor think of your jokes?

Threw them in the fire.

Made light of them did he?

He’s quite a star as an after dinner speaker, isn’t he?

Star? He’s a regular moon! He becomes brighter, the fuller he gets.

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