The Polytechnic Journal

Published by the Student body of the California Polytechnic School, San Luis Obispo
Issued on the fifteenth of each month

VOLUME TWO

November, 1906

NUMBER TWO

The Steam Turbine

During the last century, nearly all the steam power used to drive machinery, has been derived from the reciprocating engine. In the last ten or twelve years, experiments have been made with a new style of engine. This new engine has been developed to a considerable degree of perfection by long careful study and experimenting of the two eminent engineers, C. A. Parsons and Dr. de Lavel. They have developed an engine that works entirely on a different principle from the ordinary steam engine. Instead of making use of the pressure of steam, they utilize the kinetic energy contained in a mass of steam moving with a very high velocity.

The ordinary method of using steam to obtain power is to admit it into a closed cylinder, where it acts upon a movable piston. The movement of the steam valve opens and closes the steam ports at pressure cylinder for about three-fourths of the stroke and then cuts off. The steam in the cylinder then expands, which keeps the piston in motion. Just before the end of the stroke the valve opens to the exhaust, and at about the same time begins to allow steam to enter on the other side of the piston; which results in cushioning the piston at the end of the stroke. The steam pressures now used on these engines vary from 100 to 300 pounds. If these are exceeded, the strength of the different parts used in the construction of the machine must be great to withstand the enormous pressure, the difficulty of keeping tight joints will be experienced, and the high temperature of the steam will heat the working surfaces so that proper lubrication will be prevented. The revolutions of engines used on torpedo boats in the navy are between 400 and 500 per minute. The speed of pistons on these boats is limited to about 1000 feet per minute, the length of stroke being about 4 feet.

The steam turbine is rapidly being introduced in these vessels.

For very large plants the steam turbine, supplied with superheated steam and a good vacuum, is a most attractive substitute for the large reciprocating engine.

As far back as Hero, the Alexandrian mathematician of the third century, B. C., we have the germ of the steam turbine. Not much attention was given to the steam turbine till the later part of the nineteenth century. An Englishman by the name of Parsons built a steam turbine in the year 1884. This proved entirely practical as it developed 10 h. p. at 18,000 r. p. m. This turbine is made of several turbine wheels, or rows of blades, in succession. These are placed on one shaft within a case having more blades on the interior. The moving blades are in circumferential rows on the shaft nearly in contact with the case. Fixed blades on the casing project inwardly nearly touching the
spindle or shaft. This constitutes what practically amounts to a series of turbine wheels on one shaft, through which the steam is forced. The following turbine is slightly larger than the preceding one, so as to allow for the increasing bulk of elastic steam. This steam exerts its force on each turbine successively, which as it expands reduces in pressure. As the steam passes through it gives to each turbine a rotary impulse, partly by impulse and partly by reaction. This involves the same idea as did Hero's engine. The most notable feature concerning Parson's engine is the expansion of steam in successive stages, which relieves it of a few pounds pressure at each stage. This sort of an engine permits rotary speed slow enough, without serious loss in efficiency, to allow it to be coupled directly to the screw propeller of a vessel, without the ordinary reduction gearing. Another feature about the turbine is its economy of space. This allows it to be placed in about one half the space generally occupied by the vertical engines used on the Atlantic and Pacific liners.

In 1905 the Cunard Steamship Co. placed steam turbine in two of their liners, which were under construction. These turbines, with an indicated horse power of 60,000, and speed of 25 knots, proved to be entirely successful. The disadvantage of the reciprocating motion of the engine is equal, somewhat, by the excessive high speed of the turbine. As regards reliability of operation it is not too much to say that, when the details of construction of the turbine have been given as much consideration as the mechanical construction of reciprocating engines, the new steam power device will give as good results, if not better, as the older machine. This new machine has, at last, come into common use and competes, in its economical performance, with the simpler and less economical types of the standard steam engine.

In some places, the steam engine may be installed where the turbine, as yet, would be of no value but, it is not safe to say at this stage of development that the one machine should be installed in preference to the other. F. L. T.

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The Polytechnic Journal

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TERMS

Subscription . . . . 75c per year
Advertising terms on application to Business Manager.

Editorials.

We are glad to see that some of our enterprising fellowstudents have conceived the idea of organizing the debating society in our school.

It certainly will prove a great help in bringing to the front new and promising debaters that would have otherwise have been undiscovered.

Again it will give our debaters practice so that when they meet an opponent they will be more able to do themselves and their school justice.

Every one should become a member of the club. It can't do you any harm and it may do you a vast amount of good.

Just criticisms given the right spirit will perhaps aid in improving our paper. If you see something that you think you could improve on tell us about it. Perhaps we haven't noticed it or have-
n't been looking at it from the right side.

We are expecting soon to add to our Journal departments on Domestic Science, Agriculture and Mechanics. In these departments the students will give you an idea of what they are doing and how they do it.

In spite of all the care that we could use in making up our copy and reading the proof errors slipped by us unnoticed. As time passes we hope to become more efficient in our duties and give you a better paper. In order to do this we ask the hearty cooperation of all.

The foot ball season is here. We were all pleased with the outcome of our first game on November 3, when Poly defeated Salinas by a score of 6 to 5.

Although the weather was not the best our yell leader was out and had his band of rooters with him. Ask the boys that were in the game if it helped them any to hear their fellows on the side lines cheering them on? They will tell you that it did.

The next game we have we hope it will be pleasant, weather, but rain or shine let every loyal member of the Polytechnic school turn out and help cheer his team on to victory.

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The anticipated Cyclopædia of American Agriculture, edited by Prof. L. H. Bailey, of Cornell University, is announced to appear in part at an early date. The work will consist of four volumes as follows: Vol. I., General Considerations of Farms, Climates and Soils; Vol. II., Crops; Vol. III., Animals; Vol. IV., The Farm as a Part of the Community, comprising discussions of economic and social questions, organizations, statistics, education, history and literature. The Macmillan Company is the publisher.

Prof. Bailey's Cyclopædia of Horticulure is in constant use by our students, and his new Work on Agriculture, which we hope to have in our library this fall, will, we are sure, prove of equal service.

New England Thanksgiving

It was a typical Thanksgiving in old New England. During the night mother earth had taken on a great white mantle, a beautiful sight to behold as it sparkled in the sunlight.

We were to spend the day at grandfather's, so we made ready as quickly as possible and were off, in a large sleigh, drawn by an old white horse. Yet he was speedy and took us at a good rate, once dumping us out in the snow.

The quaint old country home with its low sloping roof and small windows, set far into the wall, was reached at an early hour. We were received with welcomes from all and were entertained till dinner time in the old fashioned living room.

We entered through a low wide door. There we found no elegant tapestries, no rich furniture or pictures, but just plain old fashioned grand mother's things. Pushed up against the partition wall was an old organ, very high and narrow. The key board was low and the instrument, from all appearances, needed a tuning. Old rugs, carefully braided and put together by grand mother, were placed here and there over the old rugged floor. This room was very large and across the far corner was a huge old fire place, in which a large stump was burning brightly,
giving the room warmth and cheerfulness.

The mantle was draped with an old lace cover, and pictures of each individual member of the family were placed on it in alternate positions. In the center was the family group.

As we entered we were relieved of our wraps, and after a short chat with our friend, we were directed to the dining room, which was dining room and kitchen combined. Here I did not take much notice of the furniture except the old table, and I don’t suppose that would have been so noticeable had it not been for the monstrous brown turkey on it. This brown turkey, the mince pies, cranberry sauce and various other goodies only urged our already ravenous appetites on.

We sat down and began eating. Turkey was first course, salads the next, and so on till everything had at least been tasted.

After eating so much we found it rather difficult to move, so to pass away time, grandfather was asked to tell a few stories. This he did in his slow old way, while we eagerly listened for the climax. Then discussing the subject for a few minutes, would start him on another one.

We passed a few pleasant hours this way, and the remainder of them were spent sleighing and snow balling. Our old white horse wasn’t the only one on the go that afternoon, for they could be seen in almost every direction. We enjoyed the tumbles in the snow banks so much that we forgot ourselves and did not return home until a late hour.

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G. T.

How Olive Oil is Made

The olive may be called a fruit, which is nearly coal black when ripe and has a very bitter taste.

The fruit is first picked or pulled off the branches and placed in a sort of basket, which is suspended by a strap from the neck of the picker. When filled the basket is emptied into sacks and hauled to the mill.

The contents of the sacks are passed through an ordinary fanning mill, run by horse power, which separates the leaves and small particles of dirt, which are most likely to be present, from the olives. The fruit is then taken to the dryer, which is a sort of a room built over a furnace, with drawers on two sides in which the olives are partly dried, causing some oil to ooze out. The fruit is then taken to the crusher, which consists of two mighty wheels, which revolve in a circular path. It is crushed by these wheels and the pulp is then put into a large tub, which is supported on a small cart made for that purpose. The pulp is pressed and then put into a false mould about three feet square and four inches thick. There are a number of small boards about one and one half inches wide and one inch apart fastened together by two small ropes, which run through ends. Upon these are several layers of pulp, one upon the other, and around each layer is pled a thin cloth, which acts as a strainer and also serves to keep the pulp from oozing out.

After the layers are in place, weight is brought to bear upon them and the oil may be seen flowing into a large zinc vessel, from which it is emptied into large wooden tanks. The pulp is of no more use after the oil has been extracted, so is thrown out or fed to pigs.

The oil is left in the tanks for several days to settle, after which it is drawn off and put up in quart and pint bottles. The bottles are labeled and are then prepared for shipment. To do this they are wrapped in straw and placed in a box with rows of pasteboard between them or sometimes the space around the bottles, after being placed in the box, is filled with saw dust.

Great care must be taken in the manufacture of olive oil to prevent all odors, as it absorbs them.
Exchanges

We have the same fault to find with our exchanges this month as the Oak and other Journals. Exchanges are coming too slowly. The only journal which seems to be satisfied is the Dictum Est. (Red Bluff) and it may well be satisfied, as its exchanges were the most noticeable feature of last month's issue.

As the Oriole has said, we should be as prompt as possible in sending out our exchanges, so that we may receive and enjoy the returns before we issue our next Journal. It is somewhat discouraging to have exchanges come in so slowly. We lay the fault this month to papers being issued late, and we realize it takes quite a while to get things in smooth running order and also time is required in which to send Journals away.

We noticed a criticism made by the Dictum Est to the effect that advertisements of the purple and white could be made more noticeable if joshers were scattered among them. We don't think you meant that, for we find you are not following that plan yourself.

We want to thank the Oriole of the Campbell Union High for the lesson it has taught us in sending our exchanges. Your paper reached us in splendid condition, neatly stamped and not even the edges turned. We are going to follow your example and hereafter will do away with wrappers and send out our Journal in envelopes.

Besides your journal presenting a neat outward appearance, you have some good stories. The hold up at Spring Valley was very readable. Your cuts are also good.

We hope very soon to have two or three new departments in our issue on which we expect criticism from our exchanges. The boys of the mechanic and agricultural departments are going to have their work and in time we expect to add a domestic science department.

Now let us hear from our exchanges.

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Domestic Science

By Jeanne Tout

Schools of every class and kind are numerous. No conceivable department of science, art or belief is in want of instructors. One thing, however, cannot be taught in our schools, and that is just how to earn an honest living. Theoretical education, however subtle and complete, does not necessarily impart the one thing needful. It does not imply that the graduates of our schools, as a rule are out of work or that they are incompetent, but it means that one may graduate with highest honors and still be useless in point of service. The wants of the world are constantly changing and today, the practically trained are most in demand.

A lady was once heard to remark: "Yes, the theory of Domestic Science is all right, but it will not cook a dinner." This is the gist of the question. The cooking of a dinner is not the thing of least importance.

From the point of health and happiness it is no less valuable than many another kind of handicraft. To know how to do is one thing; to do is another.

In Domestic Science teaching, that branch of education which is of special interest to half the race and concerns the well being of all, this department of the Polytechnic Journal stands for the practical training, which results from actual doing rather than from pursuit of merely the theoretical course of instruction.
Thanksgiving Menus.

Cream of Celery Soup
Roast Turkey, Chestnut Stuffing, Gravy
Scalloped Oysters, Cranberry Jelly
Mashed Potatoes, Creamed Onions
Oysters, Salted Pecans, Celery
Mince Pie, Pumpkin Pie
Fruit, Bonbons, Nuts
Coffee

Clear Soup
Turkey, Oyster Stuffing, Cranberries
Potato Croquettes, Cream Cauliflower
Salted Almonds, Gherkins

Plum Pudding
Raisins
Coffee
Sweetmeats

The Goops in cooking class.
The Goops they are a noisy crowd,
They scrape their stools, they talk aloud;
The slam with heat the oven door.
When tins they wash, you think you hear
The clash of symbols—all too near.
The teacher says, "Do thus and so."
They heed her not, and spoil their dough.

Our football season is well under way and a great interest is manifested in the game.

On October 28, a football game was witnessed on the Polytechnic grounds between a team composed of faculty members and students vs. a strictly student team. The faculty members, who played, were: Messr. Waters, Rubel, Lynch and Gassaway. Mr. Waters left the impression behind him that he was a hard line smasher, also Mr. Rubel proved that he had encircled the pigskin before.

Lisk played a good game for the students, but went out in the first half owing to an injured ankle. At the loss of Lisk our backs were weakened.

No score was made in the first half.

In the second half the faculty team kicked off to the students. They forced the students to punt and one of the student team recovered the ball after it touched the ground and we were fined 15 yards, which was not according to rules of 1906, thereby putting the faculty near the students' goal and after a few line plunges the faculty crossed our line giving them 5 points. This score remained at the end of the game, 5 to 0 in favor of faculty.

POLYTECHNIC vs. SALINAS.
The two captains, accompanied by their respective coaches, came on the field at exactly 2:30 and it was decided a toss would give the pick of goals, as Winkler won the toss, he chose to defend the south goal.

The first half was started by Lisk kicking off to Connor, who advanced the ball to the forty yard line. After a series of line backs on each side, in which Salinas excelled, the ball was brought over the Polytechnic goal line, two minutes before the close of the
half. As Salinas failed to kick the goal the score stood 5 to 0 in favor of Salinas.

The features of the first half were the work of the Salinas ends in breaking up interference, blocking a punt by Curtis, line plunges of Salinas and a few good tackles on the parts of Lisk, Kennedy and Lewin.

The second half opened with a short kick by Whisman to Lewin, who ran the ball in, with poor interference for eight yards, placing the ball on the twenty-eight yard line. The Polytechnic boys took a brace in this half using more end runs and kept the ball in Salinas territory, there being an exchange of punts in which Polytechnic perhaps had the better. The ball was worked back and forth on Salinas’ ground and as the Polytechnic held her line better Salinas was forced to punt, which was recovered by Lisk on the forty yard line, who, with the good interference of Kennedy, ran the ball through a closed field to a touch down, placing the ball between the goal posts.

Lisk had no difficulty in kicking the ball squarely through the goal posts, making the score 6 to 5 in favor of Polytechnic.

The features of this half were, blocking of punts by Curtis, breaking up of a forward pass on a fake tandem formation by Buck, our left end.

By consulting with the official time keepers it was found that when Lisk recovered the ball he had but a few seconds yet remaining to make a touch down and when he had gained his victory, 5 seconds yet remained in which to play. The teams had no more than lined up after converting their touch down into a goal when the whistle sounded the end of a hard fought battle.

On the whole the playing of Salinas excelled that of Polytechnic in regards to speed and interference, but our men deserve much credit for coolness manifested in the game. Lee McDowell and his followers deserve a great deal of credit for their cheering and passing the good word on to our boys.

The following was the line-up:

Salinas                  Polytechnic
Piazzoni               L. E. R.  Cook
Lang                   L. T. R.  Steinbeck
Lemon                  L. G. R.  Pezzoni
Ober                   C.        Drougard
Binsaciu               R. G. L.  Driver
Boswell                R. T. L.  Curtis
Lewis                  R. E. L.  G. Buck
Whisman                Q. B. Lewin (Capt.)
Conner (Capt. L. H. R.  Kennedy
Smith                  F. B.    Lisk
Masengill              R. H. L.  Boone
Oscar Gibbons was the official and a fairer official never walked the field.

He treated both teams alike.

School Happenings

On the 5th of October the Athletic Association of the school initiated its new members. Initiation, it may be said, is one of the most important events in our school life as regards to the promotion of mirth and excitement. The nature of the affair had been kept a secret from almost all and we went with our interests fully aroused.

The assembly hall was beautifully decorated, the school colors being very much in evidence. Initiations began promptly at 7:30 and every one took part in the fun. The stunts were numerous, varied and some quite difficult, but the “Freshies” proved their skill by performing them all successfully and thus gaining a worthy admittance to the association.

After all were initiated the members had a few dances, and later refreshments were served by the senior class in the English room.
The evening closed with hearts full of appreciation.

Trustees R. M. Shackelford and Warren M. John were our visitors on the 8th of October, and we had the privilege of listening to a talk from both. As usual their discourses called forth expressions of appreciation from faculty and students.

On the 10th our morning assembly meeting was made pleasant by Miss Richardson favoring us with a vocal selection. The song was so well rendered and appreciated that Miss Richardson was called to respond to an encore.

Mr. E. L. Mitchell, of Santa Maria high, visited our school on October 8, in the interest of Rugby football.

On October 19th the school was favored with a most delightful talk on "Education" by Prof. Charles Gayley, who is a recognized authority on English classics.

He said that we, as students, must be impressed of the value of history, algebra, languages and chemistry. The hard study of these helped to broaden our minds and shape our characters.

Mr. Gayley is most popular as a lecturer, so simple is he in language and so logical in presentation that one understands all that is presented. He is also surprisingly ready in humorous illustrations of his subject matter.

His talk was listened to by an appreciative audience, who manifested their pleasure by frequent applause.

A challenge to debate was sent by the Santa Maria high school to our institution on the 22d of October. Dr. Anderson read the challenge before the assembled students and by a unanimous vote its acceptance was immediately decided upon. A committee was appointed to arrange for the debate.

This inter-scholastic debate is a much anticipated event as the championship will be fiercely contested.

We are proud of the silver trophy that is in the library of the Polytechnic school and the school will endeavor to maintain its past laurels by winning another victory.

The following is a

List of the Students Enrolled at the Polytechnic 1906-07 with their home towns.

Note—M., Mechanics' course; A., Agricultural course; D. S., Domestic Science course.

First Year.
Boone, Oliver N. (M.) Travers
Brew, Mae (D. S.) San Luis Obispo.
Brown, Clara Bell (D. S.) San Luis Obispo.
Bück, George A. (M.) Santa Barbara.
Carranza, Alonzo R. (M.) Santa Maria.
Chambers, Jennie L. (D. S.) Cordova
Cheda, Mary F. (D. S.) San Luis Obispo.

Coonradt, Francis (M.) Lotus.
Cox, Edmund Donald (M.) Watsonville.
Evans, W. Raymond (M.) San Simon.
Fiedler, Eugene (M.) San Luis Obispo.
Griffith, Hazel May (D. S.) San Luis Obispo.
Hartley, Ernest (M.) Ballard.
Henry, Albert R. (M.) Tulare
Hieok, Leon F. (A.) Colusa.
Halloway, Creed (M.) Santa Margarita.

Obispo.
Keller, G. Walter (M.) Jackson.
Kirk, Ruby (D. S.) Jolon.
Kundsen, Peter (M.) Los Banos.

Obispo.

Obispo.
Matasei, Flossie (D. S.) Cayucos.
Matthews, Walter (M.) Templeton.
McCandless, Joseph H. (M.) Ukiah.
McCrea, Grace (D. S.) San Luis Obispo.

Obispo.
McDowell, J. Lee (A.) Orange.
Methvin, Jesse (M.) Oxnard.

Obispo.
Moller, William P. (M.) Santa Ynez.
Murphy, Elmer H. (A.) Perkins.
Osmun, G. Kent (A.) Whittier.
Pearce, Thomas Edwin (A.) Volta.
Perry, Lucian M. (M.) San Miguel.
Ramage, Rachael Elizabeth (D. S.) San Luis Obispo.

Obispo.
Renetzky, Frances (D. S.) San Luis Obispo.
Roberts, Hugo Lee (M.) Coalinga.
Fresno Co.
Sarmiento, Manuel, Jr. (M.) San Luis Obispo.

Obispo.
Sauer, Arthur (M.) San Luis Obispo.
Schulze, Hertha (D. S.) San Luis Obispo.

Obispo.
Skiles, Thomas (M.) Minneapolis.
Minn.
Spangenberg, Fred E. (M.) San Luis Obispo.

Obispo.
Stebbins, Emmons B. (M.) Modesto.
Tilton, George Albert, Jr. (M.) Bakersfield.
Utzerath, Frederick G., Templeton.
Van Orden, Lincoln (A.) San Francisco.

Vasquez, Otilia (D. S.) San Luis Obispo.
Walbridge, Frank Henry (M.) Montalvo.
Watson, Bulah May (D. S.) San Luis Obispo.

Lamplough, James Jay (A.) Los Angeles.
Wilson, Loring Jay (A.) Colusa.
Wood, Glen Fredrick (M.) San Luis Obispo.

Wood, Hazel Elizabeth (D. S.) San Luis Obispo.

Second Year.
Ashidia, Tsunjiro (A.) Japan.
Bachman, Ida May (D. S.) San Luis Obispo.

Bello, Mary (D. S.) Morro.
Campbell, E. Earl (A.) Orange.
Cook, Samuel H. (M.) San Luis Obispo.

Doleini, Velente F. (A.) Guadalupe.
Drougard, Valentine (M.) Rio Vista.
Duncan, Benjamin C. (M.) San Luis Obispo.

Floyd, Walter (M.) San Luis Obispo.
Girard, Marie E. (D. S.) Cayucos.
Hall, Harvey L. (A.) Pasadena.
James, Harry (A.) Santa Barbara.
Judd, Oswald B. (A.) Watsonville.
Kondo, Eizo (A.) Japan.
Lewin, Frances (D. S.) San Luis Obispo.

Lewin, Nathan S. (M.) San Luis Obispo.

Linn, Edward O. (M.) San Luis Obispo.

Lisk, George A. (M.) Pasadena.

Loomis, Hugh J. (M.) San Luis Obispo.

Lechessa, Roy A. (A.) San Luis Obispo.
Madonna, Margaret E. (D. S.) Cayucos.
Minturn, Lloyd W. (M.) San Francisco.
Mioissi, Ben E. (M.) San Luis Obispo
Moore, Milton E. (M.) Goleta.
Pierson, William B. (A.) Lordsburg
Sebastian, Ruben L. (M.) Camarillo
Storni, Livia (D. S.) Cambria.
Stringfield, Clara L. (D. S.) Chatsworth.
Tout, Grace L. (D. S.) Sultana.
Watson, La Rue C. (A.) Palmdale.
Third Year.
Biaggini, Ester (D. S.) Cayucos.
Brown, Evan (A.) Cholame.
Buck, Francis D. (A.) Santa Barbara.
Dodge, Clara L. (D. S.) Santa Maria
Kennedy, Avery B. (A.) Campbell.
Moissi, Alfred F. (M.) San Luis Obispo.
Musico, Florence (D. S.) Cayucos.
Pierce, Earl D. (A.) San Francisco.
Pezzoni, Henry (A.) Guadalupe.
Schneider, Annie W. (D. S.) Morro.
Stringfield, L. Alberta (D. S.) San Luis Obispo.
Tanner, Ella L. (D. S.) Morro.
Thaler, Fred L. (M.) San Luis Obispo.
Thomas, Myron M. (A.) Riverside.
Tout, Jeanne (D. S.) Santana.
Wilson, George W. (M.) Bakersfield
Worden, Guy T. (M.) Shandon.
Of the 56 counties in the state the following are represented:
1906-07.
Alameda .................................. 1
Amador .................................. 1
Colusa .................................. 2
El Dorado ................................. 1
Fresno .................................. 1
Japan .................................. 2
Kern .................................... 5
Los Angeles .............................. 8
Mendocino ................................ 1
Merced .................................. 2
Minneapolis ................................ 1
Monterey .................................. 1
Orange .................................. 2
Riverside ................................ 2
Sacramento ................................ 3
Santa Barbara ............................ 12
Santa Cruz ................................ 2
San Francisco ............................ 2
San Luis Obispo ........................... 56
Solano .................................. 1
Stanislaus ................................ 2
Texas ................................... 1
Tulare .................................. 4
Ventura .................................. 3
Total .................................... 117
Frances L. to Mr. Twomby—"O, say papa—"
Mr. Twomby in surprise—"I am used to hearing that, but not in the class room."

Who bothers Dixon more than all his money?
Ask Ruth G.?

Moore is getting quite popular of late.
He has company on Sunday afternoons and has been seen walking home with some of the girls after school.

Wanted to know—Why Harvey left the dance so suddenly the evening of the teachers' ball.

Why is it? The Choral society has not started this year.
See Miss Lake about it.

Why was H. H. so careful not to wash one side of his face on the evening of the twenty-fifth of October?
Ask Grace Long about it.

Rastus Johnson—"Why, Tildy, what you lehe so much wattahtmilyun on dat rine foH?"

Tildy Johnson—"Didn't want to muss mah ears all up."—Rastus.

Ester, discussing privateering in the Revolutionary war—"I remember one occasion when—etc." Ester must have a good memory.

Miss Lake, standing in the library.
Student coming in—"Is this still Miss Lake or—?

The Poly skates. Cox, Henry and Van Orden.

Walter Floyd, our Poly pet, always has to have something to play with.
Our Poly girls do not have to learn to throw a fellow down.

Mr. Gassoway, would like to know where Wilson Thaler and Worden were on Friday afternoon at three o'clock, October 26, 1906.

Miss Lewin (in chemistry)—"There! I have done that up (Brown)."

Young lady (in chemistry)—I can't understand these lessons."
Mr. Gassoway—"Well I want you to study with some of the girls and get them to help you. That's the way I did when I went to school."

Favorite song of Herron—Mary-Bell-O.

Instructor (in geometry)—"Your figures are not accurately drawn are they?"

L. W.—"No, they are not mathematically accurate."
Instructor (in history)—“Guy, who first settled Connecticut?”
Guy—“The Indians.”

* * *

Why did some of the senior girls sit on the platform during initiation?
Masculine voice—“To see and to be seen.”

* * *

Pierson—“Trombly is in the office.”
Miss L.—“He has company, hasn’t he?”
Mr. P.—“No! The woman has left him.”

Miss Stringfield, with her hand in L. Watson’s coat pocket in class.
Instructor—“Now, Miss S., that is all right to do, while no one is looking.

* * *

DIFFERENT.
“What I want,” said the young man, “is to get married and have a peaceful, quiet home.”
“Well,” said Farmer Cortntassel, sometimes it works that way, and then again sometimes it’s like joinin’ a debatin’ society.”—Ex.

Murphy—“I want a text book by Bailey.”
Librarian, handing him a nursery book by Bailey.
Murphy—“I am not taking a Domestic Science course.”

* * *

Livia—Grace, how do peanuts grow, on trees?
Grace—No, like potatoes.

* * *

A. Miossi—“A tripod is never made with more than three legs; Is it?”

* * *

George B. says he cannot hear the signals good through a nose guard.

* * *

On the day of the faculty game Geo. B. was all smiles for he had the faculty going some, all he had to do was to shout a few numbers and they would fall over themselves trying to do his bidding.
The Following Merchants Have Advertised in The Journal

and thus enables us to have a firm financial basis. Subscribers and students

Please Patronize Them

as far as possible but don’t stop at that. Mention to them where you saw their advertisements. By doing so you will greatly assist the business manager.

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<thead>
<tr>
<th>Aston Frank, Photographer</th>
<th>Palmer C. W., Undertaker</th>
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<tbody>
<tr>
<td>Anderson J. L. Clothier</td>
<td>Palace Shaving Parlors</td>
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<td>Crocker’s Department Store</td>
<td>Rowan’s, Candy Store</td>
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<td>Dunning’s Bazaar</td>
<td>Sandercoccl, Transfer</td>
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<td>Dawson Drug Store</td>
<td>San Luis Furniture Co.</td>
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<tr>
<td>Duff &amp; Co., Merchandise</td>
<td>Schulze, W. H., Clothier</td>
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<td>Green K., Clothing &amp; Shoes</td>
<td>San Luis Jewelry Co.</td>
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<td>Hill’s Bazaar</td>
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<tr>
<td>Hill J. C., Gunsmith</td>
<td>Smith J. W., Drugs</td>
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<td>Harrington Bros., Harness</td>
<td>Sperry Flower Co.</td>
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<td>Latimer B. G., Drugs</td>
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<td>Lind C. C., Book Store</td>
<td>al Merchandise</td>
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<td>Lewis &amp; Loomis, Real Estate</td>
<td>Snyder’s, Ladies Furn’gs</td>
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<td>McCurry H., Photographer</td>
<td>Southern Pacific Milling Co</td>
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<td>Norton &amp; Norton, Drugs</td>
<td>Salinas Valley Lumber Co.</td>
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<tr>
<td>O’Sullivan Co., Shoe Store</td>
<td>The White House, M’ch’dise</td>
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<td></td>
<td>Vetterline &amp; Butcher,</td>
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<td></td>
<td>Plumbers</td>
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B.G. Latimer
EAGLE
Pharmacy
SAN LUIS OBISPO, CAL.
Phone Main 35
886 Monterey Street

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REAL ESTATE & INSURANCE AGENTS
1038 Chorro Street

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Man
who Cares"

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Material at the very lowest current rates. Estimates given on all kinds Mill Work.

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*will be on display this month. The largest and most up-to-date selection to pick from*

<table>
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<tr>
<th>Our Christmas Mounts</th>
<th>Have you seen</th>
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</thead>
</table>
| *will be on display this month. The largest and most up-to-date selection to pick from* | *Our Hand Engraving?*
| *THE POLYTECHNIC JOURNAL* | *We engrave monograms.*
| *1128 GARDEN STREET* | *We engrave buildings or any scenery in spoons.*
| **McCURRY STUDIO** | *We can reproduce any piece of hand engraving.*
| *SAN LUIS OBISPO* | *See us about any engraving or manufacturing of Jewelry.*

<table>
<thead>
<tr>
<th>J.L. Anderson</th>
<th>Have you seen</th>
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<tbody>
<tr>
<td>Clothing</td>
<td>Our Hand Engraving?</td>
</tr>
</tbody>
</table>
| Gents' Furnishings, Hats, Caps and Shoes | *We engrave monograms.*
| Call Building Monterey Street | *We engrave buildings or any scenery in spoons.*
| *SAN LUIS JEWELRY COMPANY* | *We can reproduce any piece of hand engraving.*

| Vetterline & Butcher | *Have you seen Our Hand Engraving?*
| Will treat you right | *We engrave monograms.*
| *FURNITURE AT MONEY SAVING PRICES*
| *San Luis Furniture Company 766 Higuera Street.* |

| San Luis Implement Co. | C. W. PALMER, |
| General - Hardware | Funeral Director |
| Vetterline & Butcher | *Fine Funeral Furnishings* |
| Will treat you right | *Shipment work a specialty.* |
| Wineman Bl'k, - San Luis Obispo | TELEPHONES, |
| *SAN LUIS JEWELRY COMPANY* | *SAN LUIS JEWELRY COMPANY* |
| *FURNITURE AT MONEY SAVING PRICES* | *SAN LUIS JEWELRY COMPANY* |
| *San Luis Furniture Company 766 Higuera Street.* | *SAN LUIS JEWELRY COMPANY* |

| TELEPHONES, | *SAN LUIS JEWELRY COMPANY* |
| Office Main 58 Residence Main 57 | *SAN LUIS JEWELRY COMPANY* |
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