

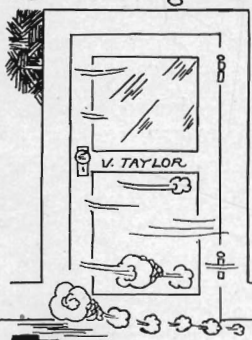
# IN AND OUT COGSWELL



**A**fter the game.



**P**ete Johnson Cartoonists.



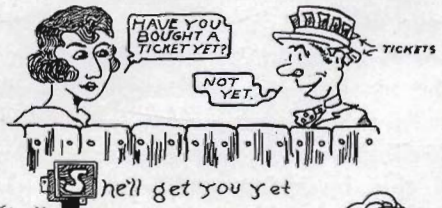
**T**aylor's Room 9: AM



**S**ome things wrong here



**W**hy some boys ARE late



**S**he'll get you yet



**A**t A RALLY.



**A**t the game.

DRAWN BY  
BERTELLUND

# Concerning Scrubs

ANDREW DIXON, '23.



WHEN the Freshman, alias the Scrub, enters High School, he resembles the proverbial hay-seed that the humorist at one time loved to portray. His doings and actions, which consist mostly of mistakes, are as varied as the famous "57 varieties."

As the Cogswellite-to-be enters the ponderous portal of C. P. C., he is cautious, curious, and embarrassed. The Scrub finally finds his way to the office, where certain high Moguls proceed to frighten and mystify him. The victim is now enrolled and is entitled to enter his morning classes.

At noon time when the Scrub is quietly eating his lunch, a certain swarthy looking cut-throat, known as Treasurer of the Something-or-Other, demands a dollar for some reason quite beyond the comprehension of the intended victim.

The next day, as our Scrub starts about on his own business, he is grabbed by the collar and conducted very unceremoniously into the Assembly Hall, called the "Aud" by well-versed upper classmen, where, along with the rest of his class mates, he is made to yell, bellow, shout, and whistle under the leadership of two very noisy beings. The noisy beings seem disgusted with the result, but it affords great amusement to a crowd of dignified upper classmen in the rear of the hall.

While our friend is learning to yell, he is also introduced to the athletic field. This is undoubtedly the hardest of the Freshman's trials. There under the boiling noon-day sun, the unlucky Scrub pulls weeds, some more weeds, and still some more weeds.

After this, the poor Scrub is left severely alone. He is soon chasing the elusive  $x$  of Algebra, grappling with the experiments in Physics, wearing out innumerable erasers in Mechanical Drawing, falling asleep over endless homework in English, and spoiling wood in Shopwork. He sadly realizes that his motto must be "Dig" and his middle name "Work."



GIRLS' PAGE



THELMA MOREHOUSE, '20.



ANOTHER year has already passed by, and again the girls must say good-by to their senior friends who have played no small part in the activities of Cogswell. They are waiting with eager hearts for their long-looked-for diplomas. But many of the graduates are not satisfied with just a diploma from high school; so they are going to seek something better in either college or the normal school. What could be

better than a college education?

Because I think that you will be interested to know what we, the girls of Cogswell, have done during the past semester and what we intend to do, I intend to give you a summary of some of our many activities.

Just as every organization needs leaders, we girls needed ours. The following prominent girls were chosen to fill the respective offices: President, Dorothy Howell; vice-president, Elsie Selm; secretary, Hazel Towne; financial manager, Vera Mariani; faculty representative, Miss Noble. The representatives of the classes were chosen as follows: Edith Forrest and Mabel Kreissig of the '20 Class; Frances Almquist and Hannah Ross of the '21 Class; Ruth Miller and Adele Scholtz of the '22 Class; Vivienne Sager and Frieda Barner of the '23 Class.

The section managers who were chosen are Frances Andrews for tennis; Emma Karp for walking; Mildred Debenham for swimming; and Thelma Morehouse for collecting tinfoil.

## A Social

The social activities have not been so numerous as we would have liked to have had them, because of the fact that our old building was closed for repairs and alterations. During the course of construction, we were crowded into our new building across the street. Since the reoccupation of our old building, we are planning to have greater social activities.

The first event that we held was the delightful Freshman Reception that took place in September. All of the girls rallied in the Auditorium to enjoy themselves. A delightful program was arranged by the social committee of which Mabel Kreissig was chairman.

Miss Howell, our president, made a few pleasing opening remarks welcoming the Freshmen. Then our attention was centered, for a few moments, on Vivienne Sager, who entertained us with a very interesting violin solo, and several encores. She was accompanied by Edith Forrest at the piano.

The second number on the program was a vocal solo offered by Cogswell's promising prima donna, Dorothy Woodbury, accompanied by our renowned pianist, Mildred Debenham.

Then followed a few interesting games, the first of which was an introductory game, the purpose of which was to give the Freshmen and the upper classmen a better chance to become acquainted with one another. The next hour was filled with dancing. The Freshmen delighted in having their new friends show them a few steps in the latest dances.

The next event was an indoor track meet which, because it was a novelty, gave the girls much enjoyment.

Following the track meet, came a most enjoyable part of the program: namely, the refreshments. The "eats" for the occasion consisted of brick ice cream and fancy cakes, which were very charmingly served by the hostesses, and which were very greatly enjoyed by everyone, because the girls had succeeded in working up great appetites during the rendition of the preceding program.

More dancing completed the first of our ever interesting socials.

## A Pageant.

In the Spring of last semester a very spectacular feature at one of the girls' socials was the "Pageant of Civilization." In the play the characters represented the Allied Nations and the Central Powers that took part in the great world war, and were as follows:

Civilization .....	Thelma Morehouse
Democracy .....	Bessie Cannon
Autocracy .....	Josephine Raycraft
Peace .....	Marie Tiencken
Education .....	Ethel Woodhouse
The United States.....	Dorothy Woodbury
France .....	Elsie Selm
England .....	Edith Schenkel
Belgium .....	Dorothy Howell
Serbia .....	Maude Fleming
Central America.....	Louise Barner
China .....	Violet Kreissig
Japan .....	Theresa Millen
Italy .....	Alvina Gumm
Portugal .....	Edith Forrest
Cuba .....	Adele Jones
Liberia .....	Mabel Kreissig
Russia .....	Ethel Petersen
Germany .....	Laura Schudel
Austria .....	Esther Charlson
Turkey .....	Berniece McKenney

The message of the pageant was to show to us how unworthy of Civilization the autocracies were. Autocracy, dressed in black, was represented leading in by chains the blindfolded Central Powers, the countries offering their tributes to "Civilization," who refused them. In shame these nations then knelt in subjection before the throne of "Civilization," who, taking Democracy by the hand, asked her to remove the blindfolds and break the chains. After she did so their tributes were accepted, and these Powers were no longer powerful under the name of Autocracy, but of Democracy.

The stage for this performance was beautifully decorated and draped with many large flags representing all nations. The costumes worn were long white, flowing robes, but several characters were represented in the native costume of the country and dancing a graceful little folk dance. Each carried a flag or banner. National airs and patriotic songs made the occasion very impressive. To a very pretty little march, Peace, robed in white, wearing a crown of evergreen and carrying an olive branch, tripped lightly in at the end, creating a very thrilling moment. The program was concluded with the singing of "The Star-Spangled Banner" by everyone.

### Stunt Day.

The last big day the girls had was held a short time ago in the auditorium, when each class gave a stunt, some of which were original, but all of which were very clever and interesting. One that caused much interest and applause was the Senior "skit" given by twelve girls, each of whom represented one month in the year. The curtain rose with Dorothy Woodbury dressed as a very sporty college young man, singing "I Want a Girl for Every Month in the Year." As she sang, the girls, in order, danced lightly across the stage and off. Each wore a costume to represent her month. January wore a dainty little evening dress and was decorated with balloons and serpentine. February carried her ice skates, and the other girls were appropriately dressed for the affair.

May, the flower girl, wore a fairy-like little dress covered with pink roses and carried a big pink basket filled with several varieties of spring flowers. A very sweet little bride for June tripped bashfully across the stage, attracting much attention. The girl representing the warm month of July wore a bathing suit, while August and September made a great showing in their costumes. The program was concluded with the singing of the chorus by all of the girls who, at the same time, went through some motions. With the boy taking his bride, the curtain was lowered. Much applause made it necessary to raise the curtain two or three times.

### Social Service

Under what may be called social service work, the girls and the boys are saving tinfoil; the proceeds from the selling is to be used to help little crippled children.

### Swimming.

As many of the girls find much pleasure in swimming, we have a manager for that section to arrange for swimming meets whenever the girls want to go.

One of these meets was held in September at the Sutro Baths. Seventeen girls, most of whom were Freshmen, derived much enjoyment from the occasion. The group was chaperoned by Miss Noble. Although many of the girls have never learned to swim, they are brave enough to go and try.

## Walking

There are a great number of girls who seem to delight more in "hiking" over the hills than in swimming. To show how much enthusiasm the girls have for this sport, over twenty-five girls, under the chaperonage of Miss Simpson, took the five-mile "hike" to Mussel Rock and back, walking in the sand all the way. They made the day more enjoyable by baking potatoes and roasting "weenies" over a bonfire. The girls waded in the water, but one of them thought she would cause a little excitement; so she fell in. Of course we all know who it was. If the sun hadn't been so hot she would have been in trouble.

The walking manager has planned another "hike" to Rattlesnake Canyon, which is scheduled within a few days. Without doubt many of the girls are anxiously waiting to go.

## Tennis.

The girls haven't made much progress this term on the tennis courts. A tournament has been started, but as yet has not been completed.

## Technical Work.

The girls take as much interest in working along other lines, such as sewing, cooking, and drawing, as they do in the pleasures of the school, for when we like our work it is a pleasure in itself.

## Sewing.

Many dainty dresses and fine undergarments have been turned out from the sewing department by the girls. Don't think that's all. The girls can make their own hats, and often, one or two have confidence enough to try a suit or coat. We would like to express our deepest sympathy for our teacher, Miss Fylpaa, who has been absent almost all term because of a severe illness; but we hope to see her with us again very soon. We have to thank again a very dear friend for standing by us in this difficulty, and that is Mrs. Brooks, who has always been so helpful and encouraging to the girls, and who has been substituting for Miss Fylpaa for the past two months.

## Cooking

What could be more interesting to a girl than the art of cooking? Of course the boys are always interested also when there's anything for them to eat. Under the direction of Miss Horstmann the girls are learning to make some very appetizing dishes. Usually the cooks are allowed to use their own judgment and taste. The results are always very pleasing. If you desire to know something about planning menus and serving luncheons, visit this department and see how daintily the girls can serve them and how very attractive and

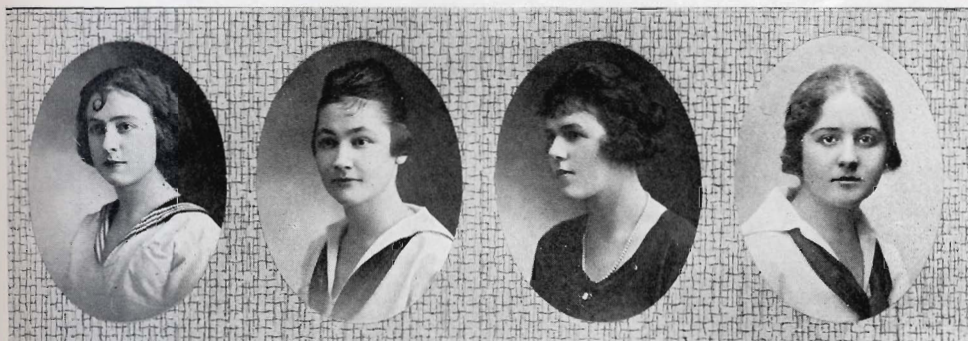
appetizing they are. Much joy and pleasure is derived from these luncheons by the hostesses as well as by the guests.

## Art Department

In this department the students get a conception of all that is beautiful in the way of form, lines and color. The Freshmen are just beginning their charcoal drawings, while the Sophomores are working on posters, photograph albums nicely decorated, and color drawings. The Junior girls take much interest in studying the characteristics of plants, and the Seniors are receiving a very thorough course in Design that takes one as far back as the history of Egyptian Ornament, and forward to the present day. The craft work that the girls seem to be most inclined to do is the china painting. Most are progressing very rapidly, and by the end of the term we hope to have a display of some beautifully decorated chinaware.

## Music.

The girls of this department can appreciate the value of good music, because it is only the best that they get under the direction of a very accomplished musician, Mrs. Stradling. The class is now working very hard on a song festival that is to be given soon in the school auditorium. The hall, having been improved with electric lighting fixtures and footlights, will be an attractive place for the entertainment. We are looking forward to something very good, because the girls are working so hard and earnestly to make the affair a great success. The proceeds of the occasion will be contributed to the Associated Girls' organization for the purpose of helping them to furnish their lunch and rest room. The future plans of the girls are to raise money in order to make their room as comfortable and attractive as possible. Just recently a very nice set of china dishes has been purchased so that the girls can serve luncheons and refreshments whenever they wish. Just off the lunch room a very convenient kitchenette has been built, in which the girls may cook their lunches, and from which they can easily serve luncheons.



### ASSOCIATED GIRL-STUDENTS OFFICERS

Dorothy Howell, President

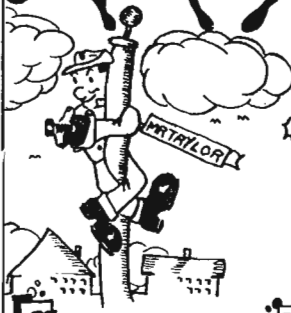
Elsie Selm, Vice-President

Hazel Towne, Secretary

Vera Mariani, Financial Secretary



# SPLASHES OF HUMOR



**T**AYLOR IN ONE OF HIS NATURAL POSES.



**T**RYING TO PASS A CAR TICKET WITH A WEEK'S GROWTH ON HIS NOSE!!



**L**OOKS ALRIGHT—BUT IT DOESN'T MEAN ANYTHING



**F**ALLING ON IT!!



**C**RAB LOST IN HIS SEAT!!



**P**ET PETRIFIED!!



**G**REY TICKLIN' THE IVORY!



**F**USCO TUNIN' IT UP.



**D**IDN'T OUR YELL LEADERS SHOW CLASS!! HUH!



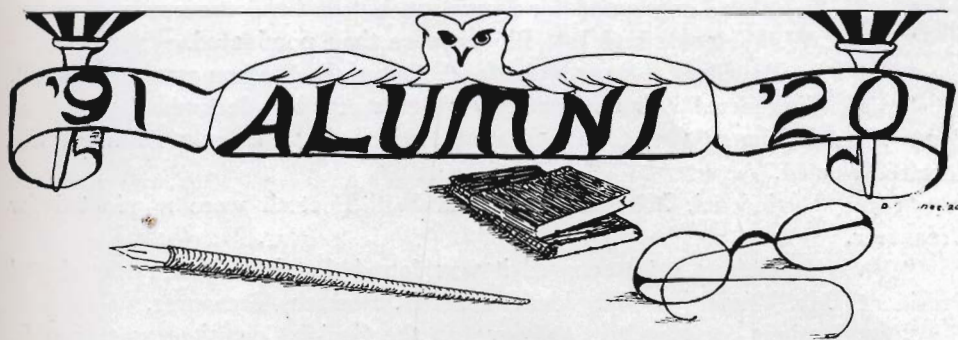
**2** MINUTES TO NINE!!



**T**RACK FAN TEARS IN THE CINDERS!!

I HATE TA LEVE YA!

BY P. JOHNSON



ERNESTINE WINDHOEVEL.



AFTER almost three years of social inactivity during the war period, the Alumni Association welcomed back its members who had seen service in that war, with a "Welcome Home and Victory Dance" at the Century Club on November fourteenth. The dance was well attended, everyone being anxious to meet again old schoolmates whom they had not seen for several years. As the regular election of officers of the Association occurs in December, it had been decided by the committee in charge of association affairs that a short business session could be held on the evening of the dance, and so dispense with an additional meeting a month later. The minutes of this meeting follow:

"The regular annual meeting of the Cogswell Alumni Association was held on November 14, 1919, at the Century Club, during an intermission of the 'Welcome Home Dance.'

"The meeting was called to order by President L. H. Price, who explained that, because of the war, in which some 180 Cogswell men and women had taken active part, the Alumni Association had held no formal meetings nor social affairs during the past two years, its entire activities having taken the form of war work, with the girls of the Association organized as a knitting club, which was recognized by the Red Cross as one of its auxiliaries.

"The minutes of the last annual meeting held on March 7, 1917, were read by the Secretary, Miss Windhoevel, and approved as read.

"Owing to the fact that the membership of the Association had increased so greatly and would steadily increase each year, a suggestion was made that the office of Treasurer be created, thus relieving the Secretary, who had heretofore also served as both Secretary and Treasurer, of the task of collecting dues. This suggestion was favorably received, and Mr. Joe Pracy made a motion that an amendment be added to the Constitution providing for the election of a Treasurer instead of a Secretary-Treasurer. This motion was carried and the following amendment to Article III, Section 1 (a), was added by unanimous vote:

"The officers of the Association shall be: a President, a Vice-President, a Secretary, and a Treasurer."

"The President then announced that nominations for officers for the year 1920 were in order.

"L. H. Price was nominated for President, but declined the nomination.

"Dr. C. W. Welcome and Jos. Bloom were then nominated.

"For Vice-President, Edgar Vogel and Arthur B. Pierson were nominated.

"Miss Windhoevel was nominated for Secretary, but declined the nomination. Miss Leishman was then nominated, and being the only nominee, was declared elected.

"Elmo Devincenzi, Miss Knudsen and Will Poetsch were nominated for Treasurer.

"When the ballots were counted it was found that Mr. Bloom was elected President; Mr. Vogel, Vice-President, and Mr. Poetsch, Treasurer.

"Nominations for members to serve on the Social Committee were now in order, and the following were elected: Loren Taber, Jos. Pracy, Miss Windhoevel, Dr. Fred Burlingame, Fred Kluge, John Lindstrom, Miss Bahrs, Miss Hansen, Alfred Peterson, Jacob Cordsen, Miss Marie Axt, Miss Charlson and Dr. Clifford Welcome.

"There being no further business before the Association, the meeting was declared adjourned."

Miss Axt and Mr. Kluge have resigned from the committee, and Miss Myrtle Armbrust and Harry Melendy are serving in their places.

On April 9 a Jolly-Up-Karnival was held in the school auditorium, which was well attended and proved to be a most enjoyable affair.

Numerous booths scattered about the auditorium offered various amusements to the dancers and served as a means of adding a fair sum to the Association's treasury. In one corner the lucky ones tried their skill at fishing, and many handsome (???) prizes were distributed by the busy keeper of the fishpond, Mr. Jos. Pracy.

Over by the stage, Madame Wee-Gee, better known to us all as Irma Bahrs, held court in a fortune teller's tent, and we are sure that none who had this lady read their palm need have any doubt as to the truthfulness of her forecasts. We chance to know of one young lady who had Madame Wee-Gee look into her future, and have been assured that Wee-Gee's prediction was fulfilled before the evening was over. So be convinced, ye skeptical ones! We'll tell you *all* about it at next Knitting Klub.

For the refreshment of the dancers, hot weenies and rolls were served in another booth, as well as soda pop and cider. Messrs. Lucas, Abner Doble and Lindstrom made ideal soda dispensers.

For those who were not satisfied with fishing in Joe Pracy's prize pond, nor listening to the tales of Madame Wee-Gee, there was the exciting aeroplane ride presided over by Dr. Welcome and Mr. A. Pierson. Not having entrusted ourselves to riding on this perilous conveyance, we cannot well go into detail about it, but ask Doc Welcome; he can tell you all about it if you didn't venture yourself.

Gay paper caps, made by members of the Knitting Klub, were handed to everyone at the door and added much to the charms of all who wore them.

Spot dances also were part of the evening's entertainment, and many lucky ones carried home lovely Kewpie dolls as a souvenir of the Alumni's Jolly-Up-Karnival. The one unpleasant feature of the evening was that twelve o'clock

arrived much too soon, and not even the coaxing of a score of our pretty girls could inveigle Mr. Ross into letting the lights burn until one o'clock; so we went regretfully away at the proper hour of midnight.

A number of former Cogswellites are now attending college. At Stanford we have Will Burkhard, Everett Young, Willard Sullivan and Martin Debenham.

Will Burkhard has won distinction for himself by his work on the Freshman basketball team.

At California are Burke Doyle, Fred Staude, Frank Busse, Arthur Charlson, Richard Thompson, James Turner, Elmer Briggs and Abel Santos.

Arthur Charlson finished in sixth place in the annual Stanford-California Cross Country Race.

Elmer Brown, '15, is attending the University Farm School at Davis.

Alvera Bernsten, '19, is continuing her work in drawing at the Mark Hopkins' Institute of Art.

Two former Cogswell athletes have been coaching at our Universities. Karl Zamlock, ex-'11, has for several years past been the baseball coach at the University of California. During the war he served as athletic director at one of the army camps in Texas, but last spring, upon his return to civil life, resumed his position as coach at California.

Clifford Michaels, ex-'13, who after leaving Cogswell attended the Oregon Agricultural College, was the assistant football coach at Stanford last fall.

Quite a number of our graduates are now teaching in the city schools. They are: Vera Franklin, '12; Francis Girot, '12; Verona Leason, '14; Elsie Rippe, '14; Mrs. Stratton (Emma Budgen), '15; Olga Johnson, '15; Florence Muller, '15; and Grace Leishman, '18.

Alma Anderson, '05, was recently married to Mr. Lee Chadwick.

Dr. John N. Blood, '07, is the Chief Surgeon at the Veterans' Home at Yountville, California.

Dr. Alma Pennington, '09, has recently returned from Boston, where she was resident physician in one of the large hospitals, and has opened an office in San Francisco.

Buel Moody, ex-'09, is engaged in business in Miami, Florida.

Lester Moody, '09, is with a lumber company at Caspar, Mendocino County.

Lester Martin, '09, is chief draftsman for the Best Tractor Company in San Leandro.

Charles Kinsey, '18 is with the Pacific Coast Glass Works.

Elmo Devincenzi, '18, is employed as a draftsman by the Western Sugar Refinery. Ray Clisham, and Alex Fisher, '06, are also with this firm.

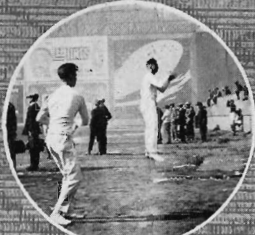
A number of our former basketball stars played together this season under the name of "The Comets," and won second place in the P. A. A. Championship contests. The members of the team who are proudly wearing silver P. A. A. medals on their watch chains are: Chas. Kinsey, '18; Jas. Turner, '18; Burke Doyle, '18; Jos. Carterra, ex-'18; Lloyd Emerson, '20, and Everett McDonald, '19.



*Casswell vs. "Poly"*



*"Tennis Stars"*



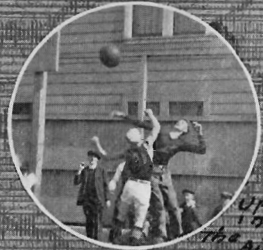
*Casswell yell leaders in action*



*Lots go*



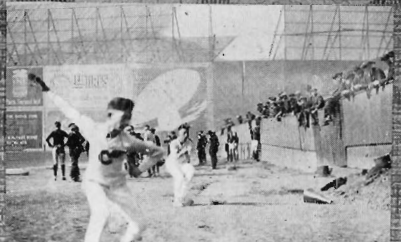
*Fremont Game*



*Up in the air!*



*Basket Ball*



*Leading yells at Foot ball game*

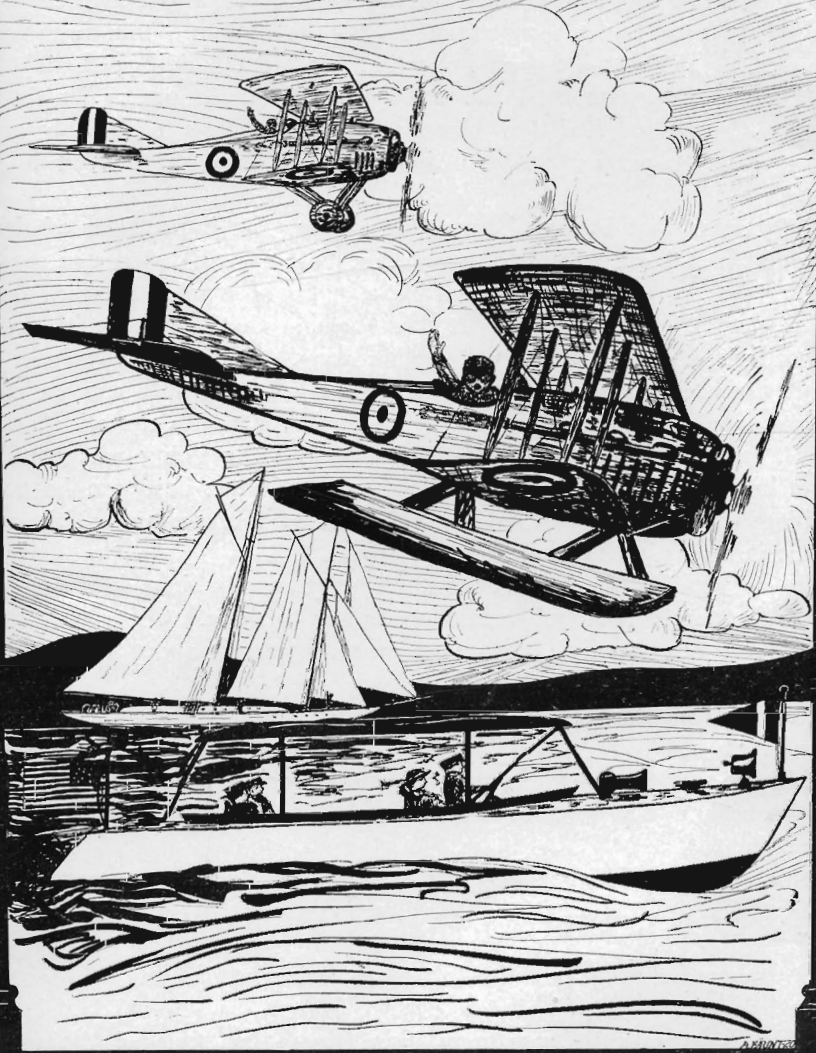


*The "lineup" at Ewing Field.*



*Heave!*  
(T)

# TECHNICAL



# Shop Notes

ROGER McCARTHY, '20.

## Drawing.



IN studying along technical lines, the best place to begin is at the bottom rung of the ladder, for, if we expect to reach the top, we must not forget the bottom. The foundation is perhaps the most important part of a building; if the foundation crumbles, the building will topple over. In the same manner, if the plans and specifications of a job are not properly made, the job will fall through. "Well begun is half done."

The "powers that be" of Cogswell recognize the importance of drawing and have installed there what are perhaps the best drawing rooms in the State. In these rooms are designed all the various parts of machinery, etc., that are needed at school. For instance: It was decided that Mr. Merrill needed a one-ton swivel-jib crane in the automobile shop. Well, it couldn't be made "right off the reel"; it had to be planned first. As this is a mechanical job, it was given to Mr. Burkhard. He turned it over to "Eleanor" Mack, and "Eleanor" went right to work. In the beginning the going was rough, but that's the kind of work "Ellie" likes. After some time, however, he got into clear sailing, the drawing took on the semblance of a crane, and, at the present writing, it is well nigh finished.

When we go further, we find that "Red" Fennell thinks he's the "goat," because every time a hard job comes up he has to do it. Cheer up, "Red."

Al Faunt, our "artistic designer," needn't worry about his graduation diploma. He makes 'em.

"Mel" Mordaunt, "Nezer" Kinnear, and "Slim" Morrill are graduate gear drafters.

Buttleman, Phelps, and Horstmann are "learning the business." Buttleman is the best, and "Sausalito" and "Butch" are far better electricians than draftsmen.

Roethel has been absent from the drawing rooms for one quarter, but he is coming back. To use "Mel" Mordaunt's words, "Welcome to our city, George."

It's funny. Lehning isn't making much noise nowadays. He is working quietly and industriously. Maybe he's got a job up his sleeve. Huh? Maybe.

In the Architectural Department, Sam Fusco has finished the full sized details. He has done very good work. Future sign: S. FUSCO—ARCHITECT.

Lloyd Ling will be another Tim Wong. He is working on full sized details.

Ward Briggs has been studying the elementary bungalow designs, but is now on elementary full-sized details.

Carnes, Calderona, and J. Petersen are doing the elementary details. There seems to be a race between them, and, at the time of writing, Carnes is in the lead.

Arnold Weeden is our pioneer in ship drafting. He has finished a cargo-boat profile and has designed a life-boat; one that'll float, too. What d'ye know about that? At present he is working on ship details. Don't forget the Yarrow Boilers, Arnold.

In the University Geometrical Drawing, Charlson and Gray have done exceptionally good work and have received recommendations.

"Davy" Jones has finished two quarters of drawing and expects to get recommendations soon. "Atta boy," Davy.

"Pose" Baloun and "John L." Sullivan are doing good work, while Gus Millen and "Red" Irvine are proving that even athletes can draw.

In the I-B's, E. Ingmanson and L. Ellis are doing the best work, while F. Vierra and J. Von Husen are the leading lights in the II-A's. \*

## Woodwork.

Bang! Bang! B-z-z-z! B-r-r-r! Bang! No, this isn't from the Union Iron Works. It's just the noise those woodworkers are making up in Mr. Younger's shop. It isn't all noise, either, that's going on up there. Do you know what the scrubs are doing? You all have seen the stairs that lead from machine shop to woodwork, and many of you have wondered what all the planks and staging were doing there. Well, the scrubs are building a large platform over that opening. The platform will be used for keeping patterns, as the other pattern-rack is getting crowded. Making the platform is in itself quite a job, but besides this, our Freshman friends are building a chute under it for an exhaust system. And say, it's going to be some chute, too. A large pipe will lead from the planer to the chute; and connected with this pipe will be a blower. When the planer starts, the blower will create a vacuum in the pipe, and the shavings will be drawn into it and conducted out through the chute. Some system, eh? Leave it to the scrubs.

Another thing they are doing is making benches. All the old benches are going to be discarded and new ones will take their place. The new benches will be slightly smaller than the old ones, and so more can be put in the shop. Efficiency seems to be the watchword and, instead of having each fellow keep his drawer in his bench, all the drawers will be kept in a large cabinet. By the turning of one key, all the drawers in the row will be unlocked at once. This will save time and trouble, and no more will be heard the wail, "Oh! Mr. Younger, please unlock my drawer. I've left my key home." Each student, under this system, will simply take his drawer out of the cabinet, and it will be locked up. All this work is being done by the I-B boys. If they weren't mentioned, I'd get "in Dutch" with them.

The I-A's have been started out this time under a new system. Instead of doing all the preliminary exercises, they have started in right away on patterns and are making good headway.



In the advanced pattern-making class, we have Eb. Kinnear, Howard Hansen, and Adolph Charlson. They seem to like their work but are bashful about telling the reporter what they're doing. Rest assured, though, that they're working.

## Foundry.

Things are surely humming in the Foundry this term. At the present writing there have already been four heats.

In the line of improvements, a core oven truck is being made. Also an oil-burning brass furnace is being installed. This will enable us to have castings of alloyed metals in the near future.

That the foundry course is interesting is shown by the fact that five of the scrubs, Walters, Raggio, Pilster, Makowski, and Suhling are taking a full semester of it instead of only one quarter.

## Machine Shop.

The Machine Shop is being kept busy right along with various repair jobs and many new ones. Mr. Murray said, "We're pretty busy now. Lots of drill presses are being made." It is a fact that if you go up there, you'll see everyone working hard—more or less.

Some of these hard workers are the two Reds—Emerson and Fennell. Just to show that a redhead can work they went down to the forge shop and fixed up an oil-burner. Not content with that, "Red" Fennell turned out a flange coupling to join a motor and a generator. The coupling is still in good order, and it seems as if it will last for a while. Good boy, "Red."

"Slim" Morrill and Al. Faunt are graduate cylinder-grinders. When they are asked how many they have ground, they reply, "Oh, about a million."

Barsotti has repaired a pump but will not guarantee it for more than one week.

Joe Francisco says he isn't doing anything, but we are assured by Mr. Murray that he's been working hard right along. Can't fool us, Joe.

"Butch" Horstmann can't seem to get away from electricity, and to pacify him, Mr. Murray put him to work making a  $\frac{3}{4}$  H.-P. motor.

The II-B boys are progressing nicely. They have finished the block and are now on lathe work.

## Forge.

In the Forge Shop the boys have been going along very satisfactorily, and Mr. Lucas is well pleased. At the time of writing they were up to welding.

The shop is being extended, and room is being made for four or five more hand-forges. The boys are laying the concrete foundations, and they seem to be doing a good job.

## Electrical.

When we stop to consider the small amount of time spent on the Electrical work by the class this year (only one quarter), we'll have to admit that the seven electricians certainly accomplished something.

The first thing the electricians did was to learn to solder. They learned to use the various fluxes and how to make various joints. Dante Luchetti and Ralph Alden proved themselves adepts at this soldering. After a short preliminary course, they started in to wire the new auto-shop. Of course, they were not experts then, and they naturally took a little longer than journeymen electricians would take to do the same job, but they certainly did a good one—no fooling. They wired the entire shop for lights, and connected up the motor, “n everything.” “Butch” Horstmann and “Len” Phelps put up the motors and made a good job of it. The motor ran at the first trial. “Ernie” Simas and “Mack” McCarthy finished wiring the old building. “Ernie” proved that he can work even if he is a track man. In order for this job to be done, a permit had to be gotten out, and after the work was finished, it had to be inspected. It passed inspection at the first examination.

George Roethel is working on a no-voltage-release, an ingenious contrivance used when batteries are being charged. In case the dynamo stops, the no-voltage-release immediately breaks the circuit and prevents the current from backing up and running the generator. George is a good mechanic.

## Auto Shop.

The Automobile industry is an important one, and the auto department at Cogswell grew crowded in the machine shop; so the old foundry was fixed up for a new home.

This is a one-story brick building, with a floor area of forty by eighty feet. Half of the building is floored, and in this half there is a cemented pit about twenty-five feet long, three feet deep, and three feet wide. There is a slight part cut out all along the length, and boards may be placed there in order to keep an absent-minded student from falling in. In one corner of the shop, there is a small bench where the soldering work is done. Along about half of the length on one side, and two-thirds of the width in the front, is a bench about three feet high, and two and one-half feet wide. This is where much of the work is done—and undone. Mr. Merrill’s office and wash-room is about ten by ten, and is in the corner of the building. The tool-room is also included in this, and in it can be found every tool used in the automobile industry. Incidentally, this room and the benches were made by Pete Johnson, Harry Rice, and the rest of the scrubs (now Sophs).

For its equipment, the shop has a “bran’ new,” absolutely up-to-date, lathe, two drill-presses, a forge, and an emery wheel. These, together with their pulleys and belts, were installed by Torre and Company. They “stalled” all right; the “and Company” took long enough to do it. At the time of writing, an oxy-acetylene outfit is on its way, a recharging outfit is being put up, and a one-ton swivel-jib crane is being planned. This crane will be right near the pit and will be used for moving heavy parts, such as engines, etc.

The University of California Extension Division has night classes in the auto shop, and Mr. Merrill says his shop is the best-lighted one in the city. He is very proud of it, partly because it is new and up-to-date, and partly because, with the exception of the lathe, everything was made by the boys, and everything, including the lathe, was installed by the boys.

The dealers think well of the shop, and have furnished much reading matter. They have also furnished parts, such as cutaway magnetos, for exhibition purposes. A large board is now shown, upon which are placed all the parts of a wet-cell battery. Arrangements have been made for a display car, to be used to demonstrate timing. This will include both valve and ignition timing.

There are always at least five cars at this shop, and there is always something doing. For instance: Emerson frequently brings his Buick in to "fix" it. He "fixes" it all right.

Mr. Bradley is working on his Peerless and is now almost finished.

Kramer's Ford is a regular boarder in the shop. He's always tinkering with it.

Mr. Merrill, using the latest and most approved statistics, has calculated that if he waited for "Mel" Mordaunt and "Parson" Blacklock to make a connection on the "American" car, he'd get it on graduation day, 1925. "Mel," however, has done good work on his motorcycle. He took it apart and put it together again. When he had finished, he proudly exhibited about one dozen nuts and bolts. They were all that were left over.

"Butch" Horstmann and Phelps, "electricians extraordinary," are the gentlemen who installed the motors. The motors are running, too.

"Red" Irvine—Oh boy—"When you get him alone" sitting on the radiator grinding valves—"you'd be surprised"—that's when he works (he stayed one night until half-past five), but when there's another redhead with him—nix. Ask Mr. Merrill—he knows.

Joe Francisco is the boy who never grumbles at a job no matter how dirty it is; he just gets right in and does it. And when a fellow is helping Joe he has to step around rather lively.

Carleton has learned what makes the horn blow on the Haynes.

Al Faunt is working on Mr. Merrill's Chalmers and is doing a very good job—oh, my, yes.

Bassotti said he was "repairing" Mr. Dodd's Nash. He meant he was wrecking it.

## Chemistry.

There are five chemists working in the lab. now, and they are going at their work as if they meant business.

Bernadette Jones and Virginia Young are in "quantitative." They do a great deal of weighing and measuring, and they are doing very good work.

Evelyn Maack, Carlo Fusco and Roy Woodbury are taking "qualitative."