

SPECIAL ASSEMBLY IN AUDITORIUM TODAY; CALLED AT 11:30

STUDENT BODY ELECTION TO BE HELD—MONDAY IN STUDENT OFFICE

VOL. XI

Santa Barbara, California, Wednesday, May 4, 1932

No. 31

\$5 Tuition Fee Boost in College Is Planned

Raise Affects Both Summer and Fall Semesters

Two emergency financial measures for next year will be adopted by all state institutions this coming fall, according to President Clarence L. Phelps of the Santa Barbara State college. The student registration fee, or state enrollment fee, formerly \$1.50 will be raised to \$6.50 a semester, while the summer session fee will be raised from \$15 to \$20. A second measure which affects college faculty members only, provides that due to the necessity in cutting state expenses, there can be no increase in salary for faculty services this coming year. Hitherto, faculty members have been entitled to automatic increases in salary at given periods. Several thousand dollars of next year's expenses will be cut off by these two measures, according to President Phelps. The state cuts in expenses were distributed on the basis of ability to pay as indicated by the respective financial records of the schools, and since Santa Barbara State's expenses last year were the lowest per student class hour of any state institution, we did not receive the full ten per cent cut given to many of the colleges, says President Phelps. These measures took form at a meeting of the presidents of all California colleges which was held at Sacramento last week-end. Leaving Thursday, President Phelps, who represented Santa Barbara State at the convention, returned Sunday.

U. of Washington Bans Honor System

SEATTLE, May 3.—(CNS)—Abolishment of the honor system in connection with law school examinations at the University of Washington this week was announced by Dean Harold Shepherd. "Cheating among law students is almost unbelievable," he declared. "We are positive that certain students cheated in law examinations, and we are going to use every means to prevent any more such practices." He said he was referring particularly to examinations given for the winter quarter. Instead of the honor system, law exams will be strictly supervised by faculty members, Dean Shepherd said. Those found cheating probably will be prevented from taking state bar examinations, he indicated.

Local News of the Week

Murder Charges Filed
Charges of attempted murder have been filed against John Curtis, Manuel Cota and Edward Traspuestos for an alleged attempt to kill Thomas Valenzuela, federal undercover agent last week. According to reports the three men are alleged to have lured Valenzuela to a lonely spot on the edge of the Mesa, near the west end of Arrellaga street, where his car was forced over a 500-foot cliff. The machine caught upon an oak tree about 50 feet down, saving the federal agent's life.

Game Refuge Posted
Work was started last week posting new signs outlining the state game refuge in the mountains back of Santa Barbara. The refuge is bounded by the ridge from San Marcos pass to Gibraltar dam, up Camuesa canyon and west over the divide down to Oso road and along the road to Santa Ynez river and down the river to San Marcos pass.

Oriental's Ordered Deported
Twenty-five Chinese were lodged in the county jail Sunday by federal immigration officers. The Chinese were sentenced in Federal court in San Diego to be deported, according to Undersheriff Jack Ross. It is stated fifty other Chinese are awaiting deportation in the Ventura jail.

Bird Refuge Improvement
Plans are being considered for a bridge path around the Bird Refuge on East Cabrillo boulevard.

MONDAY BALLOT ENDS DRIVE

College Dramatists Will Stage Vaudeville Friday

Program Will Feature Novel Presentations

Dean Ashworth Is Director of Roadrunner Revels, New Drama Venture

By FREDDY PITTOCK

Friday, May 6, will see the play production class and the Dramatic circle in the biggest fling of the dramatic year when the 'Roadrunner Revels' will be presented in the College Auditorium at 8:00 p.m.

Plenty of laughs, plenty of variety, plenty of talent are promised in this year's 'Chauve Souris.'

Just exactly what numbers the program consists of are not being given out as general information until the night of the performance, but we suggest that the faculty particularly be prepared for something of a shock.

Bill Maxwell, one of the favorite comedians of Sophomore Day will be present in another bigger and better laugh role.

Just as a sample of some of the fine acting; you will see in this production: Audrey Moore, John Brecker, Joe Gunterman, Chappie Harrison, Bobby Goux, Bill Maxwell, Phyllis Welsh, Sara van Thiel, Evallin Eaves, Van Higginson, and a many more. Come and see your favorite at his or her best.

Paul Hylton

Whose name will appear upon the presidential ballot in the student body election Monday.



S. Thompson Ousted as Sig Alph Prexy

'Irregularities' in Fraternity Affairs Brings Action by Dean of Men

Bringing to a head charges that Sigma Alpha Kappa fraternity members had committed irregularities in conducting their fraternity affairs, Dean William Ashworth announced Monday that he has asked for the resignation of Stuart Thompson from the presidency of the organization.

The request for Thompson's resignation came as the result of the fraternity holding a formal dance last week against the express orders of the dean. While the dance was said to have been given by the alumni of the group, Dean Ashworth declared that the affair was a breach of his order, and that some punitive action was necessary.

"It's too bad that the fraternities can't do something forward-looking, something progressive or constructive when there is so much room for such action in the college," declared the dean, "instead of conducting their affairs in this fashion."

The formal had been forbidden because of previous irregularities in fraternity affairs.

Ericson Will Speak Before I. E. Ass'n

The annual spring meeting of the California Industrial Education association, southern section, will be held May 7, at John Muir Technical high school, Pasadena. The general session beginning at 9:30 will be presided over by the president, Claude E. Nihart.

During the luncheon period, E. E. Ericson, director of the division of Industrial Education, Santa Barbara State college, will talk on "A National Organization of Industrial Arts Teachers."

The afternoon will be devoted to sectional meetings under 13 divisions. Several of the group chairmen are to be instructors at Santa Barbara State this summer. These include J. Douglas Wilson, building trades; Walter B. Ford, electricity; and Morgan N. Smith, machine shop. Francis Noel, of the La Cumbre Junior High school staff and a June graduate at Santa Barbara State is on the program in the electrical section.

PI SIGMA MEETS
Pi Sigma Chi, honorary Industrial Education fraternity, held an informal meeting Wednesday evening. Several student teachers brought interesting and unique class projects and problems for the benefit of the group.

Women Hold May Festival in Quad Mon.

'Rise of Prosperity' Is Theme of Program Ruled by Luella Hiebert

Approximately 350 people attended the presentation of the May Day Festival, "The Rise of Prosperity," in the college court Monday afternoon, May 3, at four thirty o'clock. The theme of the pageant was in accordance with the present depression.

The May queen, Luella Hiebert, ruled over the affair and also played the part of Prosperity in the dance pageant.

The girls from the Physical Education Department played the pageant characters. Virginia Sliction danced the part of Depression, Margaret Beddome represented the World, Pearl Reiger acted the role of Courage, Ethel Hudson took the part of Determination, and the May Queen, as Prosperity, reigned over all.

The Pageant opened with a dancing scene, the World and all the nations dancing in gay abandon. Depression then sneaked around the corner, forcing his spirit of discouragement and sadness on all the groups. When Courage and Determination discovered the situation, they gave The World strength and confidence for the combat. The World and Depression fought, Depression being defeated, and as he was being helped from the scene, Prosperity (The May Queen) entered, to reign supreme, while the nations danced together around the maypole.

The girls from the different gymnasium classes gave the Cheerful and Gloomy dances. The Cheerful dances included Irish Lilt, La Jota, and Kamarinski, and the Gloomy dances consisted of the Waltz Clog, representing Spain, and an Oriental dance by Toshiko Asakura and E. Kukulshima for Japan. Representatives from each nation united in the Maypole dance. Mr. Byron Abramson personally directed the Spanish dances, and added a special feature to the program. Those men and women from the Physical Education Department who took part in the Spanish dances were Ella Cornwall, Louise Dunham, Carmelita Janssens, Fern Johnson, Audrey Moore, Mervilyn Shaw, Alice Stephen, Clare Wade, Walter Barnett, Don Carter, Victor Colton, Lorenz Greeson, Fred Harrison, Fran Manis, William Pensinger, Dick Waterman.

The Irish dancers included Ruth Braly, Florence Longawa, Margaret Mathias, Clare Wise, Constance Wise.

Kamarinski, the Russian dance, was interpreted by Louise Albaugh, Agnes Braley, Mildred Chamberlain, Alyce Corbin, Alice Furman, Dorothy Hardison, Irene O'Leary, Dorothy Poole.

The American dancers who danced a clog number included Marian Ek, Leona McCubrey, Harriet Osborne, Vivian Rodriguez, Vivienne Sims, Marjorie White.

The accompanists for the dances were Esther Alkire, Betty Procter, and Ruth Reynolds.

Louise Dunham and Pearl Reiger had charge of the program with several committees working under them. Dorothy May devised the costumes. The program was arranged under the supervision of Meryl Adams and Betty Thomas. Ella Cornwall, Margaret Beddome, and Pearl Reiger arranged the dances. Fern Johnson managed the properties, with the help of Mildred Chamberlain, Evelyn Maitland, and Ida Pagliotti.

Elizabeth Stover and Margaret Osborne acted on the committee of programs. Marian Ek and Vivienne Sims supervised the seating; Irene Sampson and Maurine Moore advertised the event; and Marjorie Juleff, Virginia Sliction and Marjorie White worked on the theme of the play.

Staters Parade With Autos to Advertise Meet

Rally and Entertainment Held in College Gym; Follow State St. Parade

Santa Barbara's attention was forcibly attracted to the Pre-Olympic games at Peabody stadium last Saturday, by the athletic parade, led up State street from Cabrillo boulevard to Michelorena street by Clifford L. Leedy and the college band. The parade, sponsored by Block "S" society, was arranged by a committee composed of Hal Polley, chairman, assisted by Ted Neidermuller and Charles Illenstein.

Bill Neidermuller and his short gauge automobile (?) followed behind the band, and a hundred cars, including floats decorated by sororities and fraternities, honked and bumped in the line of march, and caused a number of minor traffic jams as the parade moved jerkily up State street.

Mrs. Irene Clow, Wilhelmina Menkin, and Norman Lee, of Lee's Kandy Kitchen, judged the floats as they passed by the Granada theater. They declared a tie in the best float award between the entrees of Gamma Delta Chi and Block "S" society, and gave the prize for the noisiest car to Howard Schlyer.

A dance, sponsored by Coach and Mrs. Hal Davis, was held in the college gymnasium immediately after the parade, music being furnished by Gotche's seven piece band. A novelty act presented at the dance by Whitney Haberek, and a Paul Revere Act by Sally Leonard, Ruth Imier, Gene Eckhardt, Margaret Hull, Virginia Sliction, Lawrence Connell and Hal Polley were generously applauded. The prizes were donated by Lee's Kandy Kitchen and the Associated Service Station at 1835 State street.

Oscar J. Trautz

One of the candidates who hope to control the destinies of the student body for the coming year from the president's chair.



Piano Player Appreciated by Audience

Miss Mullins Entertains With Varied Program During Fourth Period

By MRS. HELEN M. BARNETT

The piano recital given in yesterday's assembly by Miss Frances Mullen proved to be a rare treat for those students fortunate enough to get to the assembly. So spellbound was the audience held by Miss Mullen's personal charm and beautiful music that the noon bell rang unheeded and an encore was insisted on before the students consented to leave. This is a rare tribute to a performer from a school audience.

Miss Mullen played a varied and interesting program, using a masterful force and rich tone quality in her heavier numbers and a crystalline delicacy of touch in the more lyric numbers. Her most popular number was perhaps the "Cat and Mouse" by the American composer Copland, expressing in a whimsical use of whole tone and scale passages, the scampering of the cat and mouse over the piano keys.

Debussy's "Sunken Cathedral" was played with an artistic feeling for light and shades, the pianist making the rising and sinking of the cathedral in the waters of the sea a vivid tone picture. Brahms' "Lullaby" was played with true warmth and sympathy, Miss Mullen keeping to the beauty and simplicity of tone color demanded by the composer. The biggest number on the program was the Etude by Chopin, displaying a brilliant technique and accuracy of attack. For a final encore on her lovely program, Miss Mullen played "Allegro Barbaro" by Bartof. Santa Barbara State hopes to have an early opportunity to hear this splendid artist again.

Hylton, Trautz Vie in Battle for Prexy Job

Election Climaxes Race for Student Offices; Polls Open All Day

Candidate Speech Day will be held today in the auditorium at 11:30 o'clock. Candidates for next year's student body offices, whether or not qualified by petition to date, will present their platforms.

"This is a Candidate Speech Day," says James L. Kent, president of the Associated Student Body, "not a nomination speech day." The candidates themselves are to appear on the platform and not their managers.

With the ringing of the assembly bell at 11:30 o'clock, all classes will be excused for attendance at this special assembly.

Santa Barbara State college students will go to the polls Monday, May 9, to elect student body officers for next year. Voting will continue from 8 o'clock Monday morning until 3:30 that afternoon, during which time members of the Student Body are expected to cast their votes.

Candidates who have qualified to date for their respective offices include:

President—Oscar J. Trautz, Paul Hylton.

Vice-president—Luella Hiebert.

Secretary—Mary Larco, Phebe Steer.

Treasurer—Paul Hopkins, Roy Davis.

Manager of dramatics, debate and oratory—Betty Thomas.

Friday is the last day for filing candidate petitions with James L. Kent, president of the Associated Student Body, and several have not been turned in to date. These prospective candidates are:

Vice-president—Irene Mayhew.

Secretary—Dorothy Hodgins, Esther Ibsen, Clare Wise.

Treasurer—Lorenz Greeson.

In emphasizing the necessity for all students to vote next Monday, President James L. Kent of the student body writes:

"Students, we are facing a time in our college life when it is essential that we all cooperate as a body in maintaining the type of democracy which is so desired in our institution. We go to the polls Monday, May 9, to vote for candidates who have proven their worth and are desirous of offering you their abilities.

"Be democratic, interested, loyal and above all be impartial. It is not up to me or any other person or organization to dictate to you the way in which you should vote. That is your right and one of the most sacred which we possess as members of a democratic nation and institution. Be fair to yourself and vote your own mind.

"But above all, VOTE. We do not want any person in office who is not a choice of the people. Let us show the candidates that we, too, have the good of the school at heart and cooperate with them by using our vote."

Ericson Urges Men to Plan Fall Term

The time has come for filling the pre-registration cards for the fall semester," says Mr. Ericson, head of the Industrial Education department.

The men of the department are urged to immediately list their choice of subjects from those posted on the bulletin board opposite his office. Promptness in doing this will enable the student to get what he wants without too many conflicts.

Besides the regular required courses, the following electives are being offered for the fall session: home building, wood-finishing, Industrial Arts design, advanced cabinet-making, advanced machine shop, auto repair, general shop, and possibly radio. Home building is now a requirement for the wood-working credential.

Ericson Urges Men to Plan Fall Term

The following statements are issued through the Trautz headquarters. Similar space was offered to the opposition.

There is no doubt in my mind as to Oscar Trautz being the man for president of the Associated Student Body for the year 1932-33. He has proved his worth so far, and needs only a chance to show us what else he can do for our school.

ELIZABETH PEACOCK.

As a member of the athletic department, I feel that O. J. Trautz has done more, not only for my department but for the entire school, than any other candidate for student body president.

It is my sincere desire to see him elected to office.

WALTER BARNETT.

(Continued in 'Political Dope')

Trautz Supporters Issue Statements

EDITORIAL COMMENT

State College Roadrunner

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- Sidney Root Circulation Manager

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The Election

The climax of the Student Body election campaign will be reached this morning, when the candidates for the various offices will appear in the auditorium to give their campaign speeches.

Calling the assembly on the day when the most students are on the campus is a wise move, for everyone should hear the speeches and have some knowledge of the abilities of the students who will control the student government next year. However, it is not wise to let one campaign speech offset the proven abilities of another candidate for the same office. Words do not make a worker nor an able student officer.

The election Monday probably will see a record vote, for interest in the campaign is high on the campus. Students who do not vote will be out of the circle of campus interest.

It is too bad that the campaign has created ill-feeling between the various interested factions—in a college of this size ill-feeling is both noticeable and more harmful. We feel that certain groups have not displayed much effort to avert such a condition. This criticism is especially true in its application to the campaign policies of some of the supporters of the two presidential candidates.

The Stolen Petitions

The misplaced sense of humor of the person who stole the petitions of the candidates for Student Body offices from the bulletin board last week would not be worthy of editorial notice if it were not for one significant fact. It was the first time in more than two years that the entire Student Body has expressed its whole-hearted indignation and disgust over any action. Such signs are hopeful.

Cynical remarks—"We wonder what connection there was between the amount of applause for the excellent piano recital yesterday and the fact that the pianist was the niece of the superintendent of schools, that the hall was filled with prospective school teachers, and the superintendent was in the lience."

Political Chaos Within

The confusion of political thinking has almost reached the point of chaos within the two major parties. At the Democratic "victory dinner," given recently, Governor Franklin D. Roosevelt pleaded earnestly for a clear line of demarcation between the national government and the state. He would have no transgression by the national powers on the rights of the individual states. But while Governor Roosevelt was speaking in this strain in New York, former Governor Al Smith, in Boston, was crying out that the country must be put on a war basis to fight depression. That we "need a federal public works administration, clothed with that plenary power we gave to men in war-time" was the keynote of the ex-governor's speech.

Such a thing as joining the League. A man may be a Federalist or a Jeffersonian in his conception of government but it makes little difference to him when he becomes a candidate for office. Too many of our politicians are Federalists in times of depression and strictly Jeffersonian when federal subsidies are not necessary. American "empty-bottle" politics have need of reorganization along class lines. The desire of political candidates to propagandize the entire United States public is fundamentally wrong. The sooner we recognize the class groups into which we are divided the sooner we shall be able to eradicate many of the evils of our political and economic system. —H.C.W.

Around the Campus

Prospective teachers discouraged over the lack of jobs. Mrs. Abraham busy as usual. More co-eds in riding clothes. MacQuiddy with no mustachio at all. A beauty contest is launched. Personality, pep, and appearance count more. Track meet this Saturday more important than most studies realize. Ross Nichols mentioned in an article by Charley Paddock in Colliers. Eckhardt and Gene Crouch finally have the knot tied. Such a change in the weather starts the sneezes again. The health cottage a great improvement over the former one-room arrangement. Just like a doctors office. Even the magazines are old. A group of young college men and women learning traditional dances of old Spanish days under the coaching of

Mr. Byron Abraham. Audrey Moore acting affected again. Wonder if Gibby Martin ever gets mad? Jean Gourley has Valentine as her middle name.

"A Cleanup Campaign"

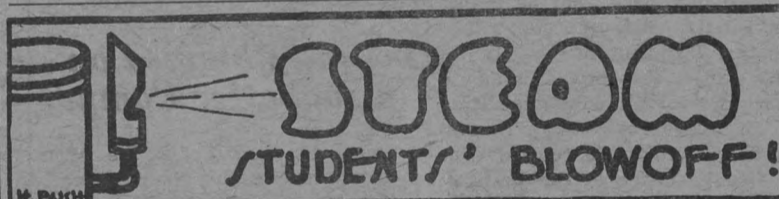


Ye Kampus Commente

By CASEY BEE

THE OTHER day, I WAS reading. IN A town newspaper. AND ALL of a sudden, I WONDERED. IF MY physio book, WAS RIGHT after all. ABOUT SOME of the laws. AND SOME definitions. AND I wondered, IF MY grammar book, COULD BE trusted. AND I wondered, IF MY history book, REALLY SPOKE the truth. AND I wondered, IF THE diatonic scale, WOULD LAST much longer. IN MODERN music. AND I wondered, IF THE color wheel, OF COLOR and design, WOULD ALWAYS be, THE TRUE foundation.

FOR ALL art, AND I wondered. IF I was true. THAT A cold place, IS ONLY where, NO HEAT gets in. AND I wondered, IF IT was true, THAT COLLEGES are, A PLACE for education, AND CULTURAL training. AND I have decided, THAT we can't trust much, OF WHAT we are learning. FOR NOW I can verify, MY LONG believed thought, THAT CHEMISTRY books, ARE CRAZY things. FOR THE other day, I READ in the paper, THAT SOME poor fools, HA DSPLIT the atom. I THANK you.



Editor The Roadrunner: Have you ever noticed how some rude and discourteous students spring from their seats like a fleeing, panic-stricken army the minute the first sound of the bell is heard? It seems to make no difference whether or not the instructor is in the middle of a sentence. But then, perhaps these people never were taught the meaning of courtesy.

really is a humorous and pathetic scene to watch crouched figures inching their way out into the aisle while the teacher is vainly trying to finish his sentence. Perhaps the teacher has no right to say a word after the bell rings. This evidently must be what some students believe.

Can't something be done about this? We might offer a college course in "Basic Principles of Being a Lady or Gentleman," but then the enrollment would be so large we would have to add another building to house the classes. Even junior high school children are taught to sit quietly until the instructor has completed his sentence. If we try hard enough we might be able to meet the junior high school standard. Some of the students, particularly the guilty parties will stick their noses in the air, look disdainful and loftily say, "But my dear, this is not a junior high school; this is a college!" All of which may be true, but nevertheless there are certain elemental polite forms that are true everywhere and this subject under question happens to be one.

Most of us are going to be teachers. In closing may I with a truly humble spirit ask that we, the students of this college, give our instructors the same respect and courtesy that we will expect when we go out to teach. Very sincerely yours, DOROTHY J. WOLF.

Editor The Roadrunner: I have been a student in this institution for three years and I have been a regular reader of The Roadrunner. I have noticed that every year some sorority or fraternity member gets the position of society editor. Then what happens? Some other fraternity or sorority hands in an article and either the story never is printed or the names and dates and details of it are all wrong. How about it? Let's have the articles straight. Personally I think that for the position of society editor a non-"frat" man should be chosen. There is enough fraternity and sorority propaganda without "messing" the Roadrunner up with it. A JUNIOR.

STORKITES

MAY 5TH-11TH

- Daisy Cromwell, May 5.
- Dorothy Hardison, May 5.
- Helen Johnson, May 5.
- Sheila Davidson, May 6.
- Eileen Donovan, May 10.
- Irene O'Leary, May 11.

From the Old Bird's Nest

By FRESH EGG

The mud of the mud-slinging campaign in the student body election battle has been dried by the hot air from the same source and now appears as a thick dust cloud on the political horizon, clouding the issues, when, lo!, out of the dirt issues triumphant the Fresh Egg. The Fresh Egg, the people's candidate for student body president, who wears no man's collar and no woman's petticoat! (N. B. How is he to know that women don't wear petticoats any more?)

Still the depressing presidential contest drags its weary way towards election day (poetry unintentional) with none of the candidates, except the F. E., expressing themselves on the vital questions that would ruin this college were it not that "Unkraut verdirbt nicht,"—weeds do not spoil, literally.

Only Dick Bolling, the home economics candidate, comes forth on one question: that, in the event of election, he will change the passing period between classes from five to ten minutes. Undaunted, the Fresh Egg goes Dick one better, and swears that if he becomes A.S.B. prexy he will cut the length of class periods to five minutes and lengthen the between class time to fifty min-

utes. This system will be much more valuable both to faculty and students than the present asinine arrangement.

F. E. has put up no petitions for nomination because of his great faith in the common people. He firmly believes that he need not do so, that the common people will always find the right man—if he yells loud enough.

Complete strangers who know of the Fresh Egg's intention to transfer to the University of Washington ask him why he runs for the office when he has such plans. This student body wouldn't notice the difference if it had no president, and in the case of this candidate's election at least it would have the comfortable assurance that it had a good man representing it fifteen hundred miles away.

Jean Gourley, one of the campus leaders, has expressed her determination to vote against the miserable state of affairs fostered to date at this college and for the Fresh Egg.

"I will vote for the best man," she said. "If there is one."

VOTE FOR FRESH EGG!

Contemporary Science

By STUD

The hottest flame attainable by combustion has in the last 100 years been produced by burning hydrogen in an atmosphere of oxygen.

But Irving Langmuir found it possible to get a higher temperature by burning hydrogen in an atmosphere of hydrogen.

The process consisted of producing a stream of hydrogen gas in the form of single and separate atoms, instead of the usual paired atoms as hydrogen has previously been handled. The pairs of hydrogen atoms are divorced by passing the gas through an electric arc.

The stream of gas projects a double flame, the inner one a stream of atomic hydrogen burning in molecular hydrogen and the outer one molecular hydrogen burning in air.

The temperature of the inner flame is probably more than 7000 degrees F. It melts tungsten wire and makes puddles of chrome steel.

The heat is delivered at a rate about 26 times greater than the Bunsen burner and about double that of the ordinary oxyacetylene torch.

Metals heated by this flame are not oxidized and are left as soft and ductile as the unbroken bar.

OUR SOLAR SYSTEM Chapter III

Life on the planet Mars would have to contend with a rare atmosphere, scanty water-supply, and a temperature falling so low at night that everything must freeze. At day, however, the temperature almost reaches the stage that we call temperate.

The year on Mars is a period of 687 days. Its rotation period is very close to ours, only about 40 minutes longer. Its diameter is about 4200 miles. Being at a greater distance

from the sun it receives about one-half the light and heat that we do here.

Mars has two asteroids. They are very small, having diameters of about five and ten miles each.

Jupiter is one of the brightest of the planets. Its year is 11.83 times as long as ours. Its diameter is more than ten times that of the earth. Its rotation period is ten hours. A terrestrial would not be able to finish one day's work before he would have to be back on the job for the next day's. Furthermore, he would find it rather cold as Jupiter gets only one twenty-seventh the amount of heat and light to the square mile that the earth does. As Jupiter has nine known satellites there is certainly no lack of moonlight.

Man may soon be able to travel in aircraft flying through the stratosphere at the rate of 600 miles per hour. Perfected and tested equipment is ready; equipment that will keep modern aircraft motors operating at full efficiency at high altitudes.

The one thing preventing its use is the inability of a pilot to live at such an altitude. Probably a hermetically sealed cabin will permit a pilot to fly as comfortably at 40,000 feet as at 10,000 feet. The stratosphere begins about six miles above the earth.

Imagine a star so large you could not see it. Such a star would have to be 50 million times as heavy and 50 million times as large as the sun.

Einstein said there could not be such a sphere. For if there were it would upset his law of gravitation. Betelgeuse, a star in Orion, is 50 million times as large as the sun, but its weight is only about 50 times as great as the weight of the sun. Its density is about the same as the "vacuum" in our electric light bulbs, or radio tubes.

Professor Eddington gave three reasons to support Einstein's negative. First, as light is subject to gravitation, the pull of such a great mass would not permit the rays of light to leave the surface. Second, the spectral lines of a heavy shining star are shifted toward the red end of the spectrum. The shift of a sphere with so great a mass would be so far the spectrum would go out of existence. Third, according to Einstein, "a heavy body crumples up space in its vicinity; and so immense a mass of matter as we are imagining would be sufficient to close up the space around the star and leave us shut outside of the universe—that is to say, nowhere."

May I quote Laplace, the founder of modern astronomy, who arrived at a similar conclusion over a century ago, that so great a star would be too big to be seen and "it is therefore impossible that the largest luminous bodies in the universe may, through this cause, be invisible."

Well, well, well. Sirius, the Dog Star, has a companion whose density is 60,000 times that of water. Although it is denser than any metal or stone Prof. Eddington says it is a pure gas. A point of this gas would weigh about 60,000 pounds. A teaspoonful of it would weigh about 490 pounds.

EXCHANGES

"If I were president of a college, I'd have every student applying for a degree shut up alone in a room to write a twenty-five page paper on any subject he chooses—without aid of books." This, according to Charles A. Beard, noted historian and leading political scientist, would be a better index of the extent to which a student is educated than any system in effect today. And he feels that "competency should be the watch word of a college education."

POETRY

FRIENDSHIP

Frailest thing we have now
So hard to form and mold
Shining with the faintest glow
So hard to have and hold.

There are friends, and a friend,
Tho' only few prove true
For broken friendships never mend
When smashed by tactless cue.

Then we have the few
Who to us become so dear,
And the hasty word we rue
When the parting seems near.

Of course there's the one and only
Possessed by you and I
Who comforts when you're lonely
And never does ask why.

—L. C.