

ROTATION NEXT YEAR!

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California Tech

Associated Students of the California Institute of Technology

Volume LXIV.

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Number 20

New PE Program Offered



—photo by Bob Levin

Ed Bloomberg leads the Ricketts Glee Club as they win the Interhouse sing trophy after a two year hiatus.

Ricketts Returns As Interhouse Sing Victor

Ricketts House, directed by Ed Bloomberg, and singing "How Lovely is Thy Dwelling Place" and "All Ye Saints Be Joyful," won the tenth annual Interhouse Sing contest held Wednesday, Feb. 27 in the Gym. A Ruddock House quartet, singing "It's a Blue World," "Hammer Song," and "You Can't Chop Your Papa Up In Massachusetts," won the quartet competition.

Page House, directed by Jan Dash, and singing "Laudate Nomen Domini" and the "Pilgrims Chorus" from "Tannhauser" placed second for the second year in a row.

Ruddock House, singing "Amo, Amas, I Love a Lass," "Black is the Color of My True Love's Hair," and "Gratias Agimus Tibi," and directed by Don Terwilliger, took third place in the choral competition.

Blacker's Sing

Blacker House's choral group, singing "Now Let Every Tongue Thee," "High Bridge" from "The Early Missouri Hymnal," and "Ave Verum," took fourth place in the choral contest. They were directed by Bob Sweet. The Blacker quartet, singing "This Train" and "Good Old Mountain Dew," was the second ranked such group.

A Lloyd House chorus, which sang "Summertime" from "Porgy and Bess," a choral adaptation of the poem "A Nun Takes The Veil," and "The Riff Song" from "Desert Song," placed fifth.

Fleming, after two years of preparation, entered a choral group directed by Don Blankenship, which sang "A-Roving" and "Troll's Progress," and which took sixth place in the competi-

tion.

Dabney, although too busy eating to enter a chorus, entered a quartet, singing "Roll the Patrol Closer to the Curb," "Banana Boat Song" and "Basin Street Blues," and won last place in the quartet competition.

A special feature this year was the singing of several J. Kent Clark songs by a faculty "chorus" consisting of Dr. David Wood, Dr. Richard Sutton, Dr. James Knowles, Mr. Tom Huff, and Dr. Peter Fay.

The judges of the contest were Dr. Leland Green, who is coordinator of Musical Activities for the Pasadena Public School System, Mr. David Thoreson, (Continued on page 3)

Johnson, Hammer, McEliece Among New House Presidents

New House Officers are as follows: Ruddock: President, Dave Hammer; Vice-President, Don Terwilliger; Social Chairmen, Bill Meisel and Bill Broste; Secretary, Murray Sherman; Treasurer, Dick McGehee; Athletic Managers, Steve Gorman and Mike Gosgrove; Librarian, Stewart Davey.

Page House has chosen Jerry Thomas President; Dick Burgess, Vice-President; Johann Lau, Secretary; Jack Beauchamp, Roger Hendrix, Chuck Holland and Mike Lambert, Social Chairmen; David Posner, Librarian; Bill Stwally, Tom Resney and Bob Bunker, Athletic Managers; David Holtz, Treasurer.

Two proposals for future Caltech PE, one calling for a three year program and another, a modification of the first, presenting a two year program, were presented to the joint meeting of the faculty Educational Policies committee and the faculty PE committee in Chandler Dining Hall last Monday at noon. Both programs call for grading PE classes and eliminating PE credit for Interhouse athletics.

The major proposal is a three year proposal, called in various places the "Ultimate Program"

or the "optimum program." The two year proposal is essentially the same as the three year program; it differs only in requiring the student to take one year of PE class electives instead of two.

Three Year Proposal

The three year proposal calls for students to have to enroll in PE every term until they have received a total of nine terms of passing grades (six in the two year program). Students will be graded "primarily upon ability and improvement; effort,

attitude, and attendance would be considered only as they affect the above items," according to the description. Unit credit would range from two units for classes to five units for intercollegiate athletics. The PE grade is intended to be included in the GPA the same as for all other subjects. The program notes that "Seniors who enroll in either class or intercollegiate activities would be required to participate on a regular basis or drop by the school deadline for dropping classes. Their grades would count in the GPA for the same number of units as other students."

No Interhouse PE

As far as Interhouse athletics are concerned, few words are spent with them. The program notes that Interhouse participation would be voluntary, but continues by noting that "The difficulty in grading on the basis of ability and improvement in these activities, and the fact that no instruction is carried on in this program, precludes its inclusion in the program for credit." The PE department evidently feels this to be no problem, however, for the next paragraph notes that "It is intended that the present vigorous and comprehensive Intramural program will continue." This means that a student would have to attend PE three days a week and Interhouse five days a week to pass PE and go out for Interhouse as well.

The objectives of the so-called "Ultimate Program" are to provide the undergraduate with the opportunity to obtain physical fitness; to know the competition, cooperation, and self-discipline essential to success of an organized team; to become familiar with several physical education activities; to become competent

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Caltech Tops Nation In Putnam Math Contest

Caltech undergraduates ran away with team and individual honors in the 23rd annual William Lowell Putnam Mathematical Competition, involving 1,587 individual contestants and 157 teams from 187 colleges and universities in the United States and Canada, it was announced today.

The contest, sponsored by the Mathematical Association of America, consists of a six-hour written examination on problems covering general college mathematics.

Caltech won first prize of \$500 in team competition; two members of the three-man team were ranked among the five highest-scoring individuals; two other Caltech students were rated among the next five ranking individual competitors, and three Caltech students were among 21 winning honorable mention.

Dartmouth College was second in team competition, Harvard was third, Queen's University in Canada was fourth and UCLA was fifth.

Members of Caltech's winning team are senior Edward A. Bender, sophomore Kenneth Kunen, and senior John H. Lindsey. Bender and Lindsey also were ranked among the five highest in individual scoring for the second consecutive year. They each received \$75. The \$500 team prize winnings go toward a Caltech mathematics prize at Commencement.

Caltech seniors Roger C. Hill and Kenneth B. Stolarsky received prizes of \$35 each for being ranked among the second five in individual scoring.

Honorable mentions were won by Caltech junior Alan Hindmarsh, senior Charles A. Ryavec and sophomore Kunen, who was a member of the winning team.

French Counsel Tells France's World Position

Gerard de La Villesbrunne, counselor of the French Embassy in Washington, spoke on "France in World Politics" in Dabney Lounge, Monday night. Professor Alfred Stern was moderator for the talk. In the audience were the French consul in Los Angeles and the consul of Portugal.

La Villesbrunne described General Charles de Gaulle, President of France, as a "great protagonist on the world stage." He said that the growth of France since World War II has been caused by the Marshall Plan, France's economic planning system, and the European Economic Community — the Common Market. The function of the Common Market is to reduce customs in the six participating countries, France, West Germany, Italy, Belgium, Netherlands, and Luxembourg. A common tariff wall will protect the Market. The eventual goal is a European Political Union. France

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Notices

COFFEE HOURS

Starting next term, the Faculty-Student Coffee Hour, which has been held on Wednesday, shall be held on **Thursday**, same time, (i.e., 3-4 p.m., Winnett Center). So, if you couldn't make Wednesdays, come to the first one next term, Thursday, March 8, and bring friends (faculty and students alike).

SCHOLARSHIP RENEWALS

All men planning to apply for Institute scholarships for 1963-64 should pick up an application in the Admission Office. Applications are not due till May 1, but students going home for Spring recess will probably want to take them home at that time.

Holder of Institute-granted four-year scholarships are not required to submit a new application unless they wish an increase in stipend.

Editorials

Don't Grade PE

The new PE proposals presented for consideration by the faculty have caused considerable controversy on campus. Though one of these plans incorporates one major revision which the **Tech** has been supporting for some time (changing the PE requirement to two years), both include several provisions which are impractical, and against the direction we feel PE should take at Caltech.

The first of these provisions is the grading of PE, and its inclusion in the GPA. Physical education is non-academic and its primary purpose is not to prepare students for college or a career, as is the purpose of academic subjects. No student should be penalized on his GPA, and thus have his future jeopardized, because he is unwilling to put his "all" into PE. There are several universities (such as Berkley, a favorite of Tech physicists) which set arbitrary limits on an applicant's GPA. Thus a low grade in PE could deprive a student of his chance to attend there. A GPA lowered by PE could also deprive some student of his scholarship (requiring a 2.5) or prevent him from being eligible for the Junior Travel Prize.

Grading is also bad since it would be almost impossible to grade objectively. Whether one student's enormous improvement in a sport he is learning is equal to another quite able student's effort in the same sport is a question that is impossible to judge objectively. And, in addition, no more should a good athlete be entitled to five units of A because he chooses to play an intercollegiate sport than should a student get an F because he doesn't happen to enjoy a sport he is being forced to take, and hence in which he does not cooperate.

The reason given for grading PE is to make it "more businesslike," that is to require everyone to work in PE and to prevent people from passing on attendance alone, without any effort. This objective could be accomplished just as well by grading PE on the desired points without including it in the GPA. Thus a lower limit for effort, cooperation, etc., could be set without penalizing a student for not giving his all in every class.

The second major fault of the PE program is the elimination of credit for Interhouse sports. Without credit for Interhouse, the turnouts for each sport would be drastically reduced, both because people would no longer have the time to devote three hours a week to PE and five hours more to practicing for upcoming sports and because many students simply wouldn't participate without credit. The only results of eliminating credit would be either the virtual elimination of Interhouse competition, with the consequent drop in House Spirit, or the changing of this competition to become more like Discobolous, with contests played with little or no organization or practice.

The reason for eliminating Interhouse credit is because Interhouse sports are hard to grade. The solution to this problem is obviously to eliminate grading.

In addition to the basic faults of the program, however, there is an even greater problem: determining the proper aims of the PE at Caltech, and what demands should, not can, be made upon the student.

Caltech is a school which has one of the most competitive atmospheres in the world. One of the greatest benefits of the present PE program is that it allows a student to go out and relax by participating—for enjoyment and recreation—in sports of his choice. Grading PE would not only entirely eliminate this advantage, but add to the already keen competition, reversing its effect.

Another prime purpose of PE should be to acquaint the student with sports in which he can continue to participate after graduation. These sports are primarily for recreation, and thus the student should not be forced to devote all his energy to becoming a master of each. He should be introduced to the sport and allowed to participate to the extent he individually desires.

As far as what Caltech should require of a student, our stand has not changed. We feel that a student at Caltech is sufficiently mature and intelligent to make his own decision as to the extent of his physical development. If the Institute requires PE at all, as we feel it can do for two years to insure each student of a minimum physical development, it should do no more than demand a student's presence. This is because the only other alternative is grading—something which we feel is unfeasible for the reasons stated above.

We stand in favor of a two year physical education plan, preferably with expanded facilities, but otherwise the same as at present. Grading should continue purely on a pass-fail basis.

—J. C. Simpson
Richard Karp

Everything's Fines

I would like to briefly clarify my position on fines of Student Houses, as I did not sign J. C. Simpson's editorial of two weeks ago.

Probably the main reason that I did not sign the editorial was not that I completely disagreed with it. It was simply that I did not get a chance to read the editorial before it was printed and, therefore, did not get a chance to make changes in it.

I feel safe in assuming that I would have made some changes in the editorial—J. C. and I very rarely completely agree on anything. Whether or not I would have changed the points of the editorial that seem to be undergoing more argument than the main point is a moot question—I cannot be sure of my feelings two weeks ago.

However, on the main issue of the editorial—that of an administrative official being free to fine the Student Houses when he pleases—I am in closer agreement.

It is my belief that the Student Houses can be fined (not payment for damages, which is something else) only by the approval, or "the advice and consent" as the Senate terms it, of the IHC.

The function of the Interhouse Committee is to set standards for the conduct of its members and to carry out all penalties for violations of these standards. This is a power that most "Inter-Fraternity Councils" or "Inter-Dorm Committees" have at other schools and do carry out. It is not within the rights of administrative officials to usurp the students, right to set their own standards of living and to enforce these standards themselves.

In summary, I do not feel that there is justification for any fines "for bad manners." Manners are to be set by the IHC, and when they get bad, it is the IHC that is to penalize for them.

—Richard Karp

Horton Speaks On New Arab Movement

"Egyptian leadership may make Arab unity possible." Dr. Alan Horton of the AUPS, in his visit to Caltech, outlined the forces at work in the Arab world and presented some of the possible developments there.

Egypt serves as a model for the other Arab states. She represents a genuine revolution in which real economic reforms and social changes have taken place (relatively bloodlessly). Egypt also stands for neutralism which is a psychological reaction that appeals to all Arabs. Finally, Nasser and the U.A.R. represent the possibility of Arab unity and are the symbol of Arab nationalism.

But the brief union of Egypt and Syria illustrates the many problems facing any union. First, there was the reaction of the Syrian upper class (who are more independent than the Egyptian elite) to the land reform and the socialist laws. Coincidental with the three and one half years of union — there was

an economic depression of the union. Ironically, the depression ended after the union ended.

A major factor in the breakup of the Egyptian-Syrian union was cultural differences. Egypt is a politically stable country; her agriculture is by irrigation and this fact demands centralization, and creates a certain amount of social mobility; and she has a population problem. In contrast, Syria has a rain agriculture; this fact enables the landlords to be independent and has created a feudal atmosphere. Consequently, Syria is politically unstable, but does not have the economic or population problems that Egypt has.

A further reason for the split was the emergence of Syrian nationalism. The Syrians resented Egyptian domination in the union that did not respect "The Syrian personality." Consequently, any further steps toward Arab unity will probably be federations rather than unions.

Three Given Sloan Grants

The Alfred P. Sloan Foundation announced today the awarding of unrestricted basic research grants to three scientists at Caltech, Drs. W. Barclay Kamb, professor of geology; Alan T. Moffet, research fellow in radio astronomy; and G. Wilse Robinson, professor of physical chemistry.

Dr. Kamb received a two-year grant in geochemistry and geophysics. He is interested in the flow of glaciers, the study of rock structure, and the atomic structure of rocks and crystals. He is undertaking a program of research into the nature of recrystallization phenomenon in solids under stress, such as glacial ice and metals.

Dr. Moffet was awarded a two-
(Continued on page 4)

Letters

Bronx Cheers

Editors:

The conduct of the men of Ricketts upon winning the Interhouse Sing is inexcusable, being especially distasteful and inappropriate for a formal public performance. They conveyed a disgusting and potentially distasteful image of the Caltech student. House spirit is to be encouraged; however gross vulgarity, for the sake of vulgarity alone, is an entirely different matter. Let it be known that there are some students on this campus whose attitude is quite different from that demonstrated by the men of Ricketts. We firmly believe that the "Ricketts Cheer" is completely out of place at any formal occasion, such as Interhouse Sing.

Tom Williams
Gary Bornzin

Piano Smashers

Editors:

It took 10 minutes 41 seconds (or so) to prove students' stupidity, by destroying, in this time, a piano, an instrument built up over centuries (sic), in man's longing and love for the beautiful and harmonious.

One makes many excuses for the "young" and their show of energy. This "show" of senseless destruction (sic), of a musical instrument (sic), brands you as the stupidest of the stupidest.

And you count yourselves as "advanced students," members of a "highly developed" country, in a most "progressed age!"

Seems the "evolution" you are the proud exponents of (sic), is curving its way back to the ape-age!

"How great you are," "gentlemen!"

You aren't helping digging the grave for your own civilization — as Mr. Krushchev's Trojan horses, — you are putting the axe to it!

You stupid fools! No wonder the world detests you! And turns its back on the "way of life" you represent.

One of them
Mrs. M. Knapp,
B.C., Canada.

P.S. First letter of this nature to leave my house, but I have rarely ever been so disgusted, as when viewing the action of young "intellectuals" of the "academic" level, in being full-fledged juvenile delinquents, glorified.

Mr. Knapp

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Readers Respond on PE

Editors:

The tentative plans of the Physical Education Department for modification of the current four year PE program have been brought to my attention by a number of indignant undergraduates, and I have been asked to make some comment. It seems to me that many of the steps proposed are in precisely the wrong direction.

I should hope that the object of a PE program would not be the acquisition of specific "motor skills" which would, I suspect, decay with a rather short half life after completion of the program, but rather that it should be to interest as many students as possible in sports as a form of recreation to be continued long after graduation. It seems to me that we now have an excellent opportunity to design such a program if the present staff and facilities, or even somewhat expanded ones, were to be used for only half as many students; that is, in a two year program. It should then be the responsibility of the PE department to make the program attractive enough to really arouse the interests of as many students as possible in at least some sports, and the enhanced instructor-student ratio in a two year program should permit the individual student who is interested to obtain much more instruction.

Also, if indeed it is to be the intent of the program to promote recreational sports, the Interhouse competition should remain an integral part of the program, rather than be undercut in the modified program.

Finally, I think it is probably true that there are some people who will not make more than a minimum effort in any program, no matter how well designed, and who will not participate in sports after graduation. This should simply be accepted as a fact of life, albeit with some regret. The entire program should certainly not be built around a plan to force these people into active participation at the expense of an enjoyable program for the rest of the students.

James E. Davis,
Research Fellow
Division of Biology

Editors:

A great deal of constructive discussion must take place before the faculty can make a decision on the future form of required physical education at Caltech. I have noticed with alarm, however, that when specific points of the proposed program are discussed, a number of assumptions which ought to be seriously questioned are instead accepted without question as being correct.

In particular, the viewpoint that the Caltech physical educa-

tion program should place emphasis in the direction of encouraging voluntary participation has been almost totally ignored in the midst of all the discussion of grading and interhouse sports problems. I can see that the faculty have the right and the power to require students to look after their health and physical welfare, but this would take place only at the expense of the students' freedom as mature beings to do as they wish, within reason, in the non-academic areas of their lives. It is my opinion that the physical education program should make available improved facilities and instruction, but I think it should remain up to the individual student to decide, without being in any way penalized for his decision, to what extent and with what degree of personal commitment he wishes to take advantage of the available opportunities. This would be consistent with the freedom, and the responsibility, which the student enjoys in most areas of campus activity.

Larry Rabinowitz

Editors:

The recent discussion over the Physical Education program have shown that students in general do not want a four-year required P.E. program. This does not mean that we want to take a two-year cram course. I am surprised that the P.E. department's recent plan did not include a three hour closed book final on the general topic "Is Circulatory-Respiratory Fitness Good?"

Most students agree that the proposed plan entirely misses the point. In fact, nobody wants a P.E. program at all, but most would be willing to suffer through two years of the present program. Furthermore, the students who go out for Interhouse sports work at least as hard as most students in any of the P.E.

classes, so the idea of giving no credit to these people is utter nonsense. I seriously hope that the P.E. department will reconsider their program along more realistic lines. The worst thing that could happen would be a program that is more stringent than the present one, even if it were only two years long.

Gerald Thomas

Editors:

We have read the proposal of the PE department regarding the revision of the athletic program and have serious objections to it. First, the policy of giving grades in PE will be of little value and we believe will do harm. Second, the new program will kill Interhouse Sports very quickly, since students will be forced to sacrifice Interhouse time for PE credit and grade. Third, the fundamentals of movement class, which will be forced upon approximately one-third of the freshman class, will be a stigma and will be called, and in fact already is being called, the "twitch class."

It should be noted that the authors of this letter are all juniors and seniors whom the program will not affect.

Larry Gershwin
Dave Hammer
Jack McKinley
Bill Meisel
Don Terwilliger



—photo by Bob Levin

Larry Ruff, left, looks happy at the singing of, left to right, Dick Carroll, Don Terwilliger, and Mike Wells on the Ruddock House quartet. The men from Ruddock won the quartet trophy for the third year in a row.

Interhouse Sing

(Continued from page 1)

Music Director at PCC and Orange Coast State College, and Miss Priscilla Remeta, who di-

rected the Caltech Glee Club last year.

Refreshments were served afterward by the Caltech Service League.

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WHAT'S NEW IN THE MARCH ATLANTIC?

Evelyn Waugh reminisces about his younger days in "Father and Son"

Oscar Handlin: A critical look at neutralism, its development and the disastrous form it has now taken

Saul Bellow writing on "The Writer as Moralist"

James R. Killian, Jr.: On the impact of federal research spending on private industry and on our economy

ALSO

Special Supplement on Children: Some fascinating views of children by Dr. Robert Coles, Jim Brosnan, Walt Kelly, Ogden Nash and others.

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BY JON KING

You have probably never played billiards in Chinese Pool parlor. Chilling thought. Physicists and chemists receiving their Ph.D's and going out into the world of science without having ever chalked a cue in a Chinese billiards parlor. The schism between the Two Cultures grows deeper daily.

Insecure?

Ed Glaser is insecure. Ed Glaser is insecure. Ed Glaser is . . . oh yea, Ed Glaser is insecure. However, let it be said, indeed let it be proclaimed throughout the land, that Ed Glaser makes the best goddam fried matzoh in the southwest. And a local lass recently remarked of said Ed — "isn't he just the cutest thing?" With such praise insecurity is assuredly an undeserved luxury.

Beware of Heffalumps.

County Cork

The sage from County Cork, Dick Scott, in the process of making some philosophical remarks on the ludicrous nature of this rather ludicrous life, appended the following as qualities of the ideal wife . . . "keeps

her mouth shut, keeps out of the way, pretty to look at, much like a well bred cow." Late at night after a few beers Scott is definitely straight out of Kierkegaard. And stone sober he's easily the foremost (comic) nihilist on campus. These Irishmen can be dangerous influences.

Watch out for sleepy looking guys with quiet jump shots. They make them. Like Charlie Blair, very sneaky jump shot. ("Verry threatening, verry, verry, threatening" E. Glaser.) The Tarriers are worth seeing for their take-off on English madrigals, Trampling through the Tulips. Right, I've run out of things to say (years ago), however, a few more lines are necessary to fill the space allotted. If any among you are interested in the glory and glitter (sic) of the journalist's life, i.e., writing this column, speak up. This column is in dire need of a writer (sic).

Great quotes section: S. L. Clemens: "The report of my death was an exaggeration." Frank King (my brother) "The butcher (my dentist) tells us you have chronic gums. We are all very proud of you."

All sophomores and juniors (sophomores only in the two year program) would be required to take a different sport elective each term. The electives would range from advanced golf, tramp-line, and handball to ice skating, squash, and SCUBA diving. These elective programs constitute "Phase III" of the proposed program.

Point Four

"Phase IV" of the program is for those with medical limitations. It is activities prescribed in cooperation with the physician and can range from return to the regular program to little or no exercise.

Grading will extend to intercollegiate activities. The program notes that "All students who participate in Intercollegiate activities will enroll for the activity and will be graded on ability and improvement as students in the class activities are."

Researching Something

One of the interesting parts of the report calls for the addition of a "research director" to the PE staff. The responsibilities of such a director, as quoted exactly from the report are "supervising research in various areas of human performance basic to all physical education activities, supervising research projects in the various activities to determine more effective methods of teaching and learning, serving as a liaison between the Department and other departments of the Institute which are investigating areas of knowledge directly related to the work of the Department, and bringing the staff members up to date on research pertinent to their areas of instruction." The duties are similar, apparently, to any biologist's.

Programs will also be provided for graduate students and faculty members; however, these programs appear independent of the rest of the report.

Next Year's Changes

To put the proposal into effect next year, the testing of new students and fundamentals of movement class would have to be foregone. There would yet be no research director and the list of elective activities would be reduced because of budgetary considerations.

DuBridge New Board Member

Dr. L. A. DuBridge, president of Caltech, has been named by President Kennedy as one of five new members of the Distinguished Civilian Service Awards Board, which will recommend persons to receive the Presidential Medal of Freedom.

The medal will be awarded by the President to a person who has made exceptional contributions to the security or national interests of the United States, to world peace, or to cultural or other significant public or private endeavors.

Dr. DuBridge was appointed to a four-year term. Other new members are Henry Cabot Lodge, former U.S. ambassador to the United Nations, to a five-year term; Samuel I. Newhouse, publisher, for three years; Mary McGrory, journalist, two years; Arthur J. Goldberg, associate justice of the Supreme Court, one year.

The appointees are an expansion of the Board, which formerly consisted only of members of the Executive Branch of the Government. Still on the Board are Attorney General Robert F. Kennedy, Secretary of Labor W. Willard Wirtz, Secretary of Health, Education and Welfare Anthony J. Celebrezze, Under Secretary of State George W. Ball, and Deputy Secretary of Defense Roswell L. Gilpatric.

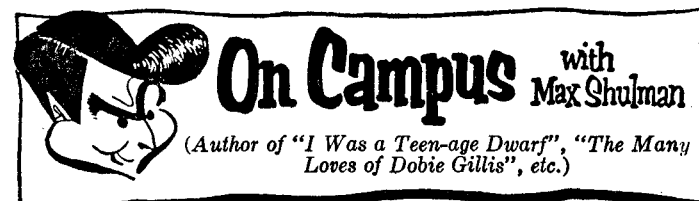
Sloan Awards

(Continued from page 2)

year Sloan fellowship in radio astronomy to continue, with other radio astronomers, mapping the brightness patterns of radio sources in space.

Dr. Robinson, recipient of a one-year Sloan grant, is doing research dealing with the study of the transport and multiplication of energy quanta in molecular aggregates, special refer-

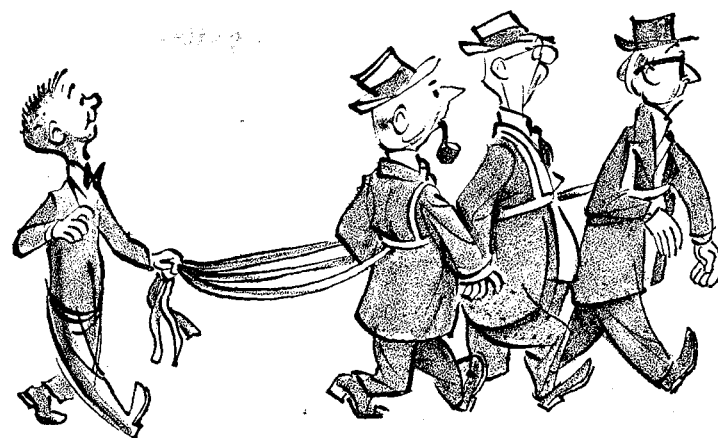
ence being given to crystalline solids and photosynthetic systems such as plants and green algae. One purpose of the research to try to determine the effectiveness of purely physical processes by which two low-energy quanta can be converted into a single quantum of high-energy excitation. Such a process might prove to be an important step in the conversion of sunlight into chemical energy in green plants.



HAIL TO THE DEAN!

Today let us examine that much maligned, widely misunderstood, grossly overworked, wholly dedicated campus figure—the dean.

The dean (from the Latin *Deanere*—to expel) is not, as many think, primarily a disciplinary officer. He is a counselor and guide, a haven and refuge for the troubled student. The dean (from the Greek *Deanos*—to skewer) is characterized chiefly by sympathy, wisdom, patience, forbearance, and a fondness for homely pleasures like community singing, farina, spelldowns, and Marlboro Cigarettes. The dean (from the German *Deangemacht*—to poop a party) is fond of Marlboros for the same reason that all men of good will are fond of Marlboros—because Marlboro is an honest cigarette. Those good Marlboro tobaccos are honestly good, honestly aged to the peak of perfection, honestly blended for the best of all possible flavors. Marlboro honestly comes in two different containers—a soft pack which is honestly soft and a Flip-Top box which honestly flips. You too will flip when next you try an honest Marlboro, which, one honestly hopes, will be soon.



There is not a dry eye in Utah

But I digress. We were learning how a dean helps poor, troubled undergraduates. To illustrate, let us take a typical case from the files of Dean S. . . . of the University of Y. . . . (Oh, why be so mysterious? The dean's name is Sigafoos and the University is Utah.)

Wise, kindly Dean Sigafoos was visited one day by a freshman named Walter Aguincoourt who came to ask permission to marry one Emma Blenheim, his dormitory laundress. To the dean the marriage seemed ill-advised, for Walter was only 18 years old and Emma was 91. Walter agreed with the dean, but said he felt obligated to go through with it because Emma had invested her life savings in a transparent rainhood to protect her from the mist at Niagara Falls, where they planned to spend their honeymoon. If Walter called off the wedding, what use would the poor woman possibly have for a rainhood in Utah? The wise, kindly dean pondered briefly and came up with a brilliant answer: let Walter punch holes in the back of Emma's steam iron. With steam billowing back at the old lady, she would find a rainhood very useful—possibly even essential.

Whimpering with gratitude, Walter kissed the dean's Phi Beta Kappa key and hastened away to follow his advice—and the results, I am pleased to report, were madly successful!

Today Emma is a happy woman—singing lustily, wearing her rainhood, eating soft-center chocolates, and ironing clothes—twice as happy, to be candid, than if she had married Walter . . . And what of Walter? He is happy too. Freed from his unwanted liaison with Emma, he married a girl much nearer his own age—Agnes Yucca, 72. Walter is now the proud father—stepfather, to be perfectly accurate—of three fine, healthy boys from Agnes's first marriage—Everett, 38; Wilhelm, 43; and Irving, 55—and when Walter puts the boys on a lead and takes them for a stroll in the park on Sunday afternoon, you may be sure there is not a dry eye in Utah.

And Dean Sigafoos? He too is happy—happy to spend long, tiring hours in his little office, giving counsel without stint and without complaint, doing his bit to set the young, uncertain feet of his charges on the path to a brighter tomorrow.

© 1963 Max Shulman

We don't say Marlboro is the dean of filter cigarettes, but we're sure it's at the head of the class. Get some soon—wherever cigarettes are sold in all fifty states of the Union.

From Other Campuses

By Jace

"The recurring rumor that Mathematics 100 flunks veritable hordes of freshmen was debunked Monday by Professor Arlen Brown and Richard O'Neil, instructors of the course," reports the Rice Thresher.

"In an interview the two Math 100 instructors touched on a broad range of topics of general interest, and revealed the true compilations which largely put to rest the grosser fears of the freshmen."

And for those who are interested in the minute percentage that did poorly, the Thresher simply noted in a little box that 40% of the freshmen got D's or F's. Certainly no problem!

Higher Prices!

Oxy has interesting complaints about their bookstore. One writer in the Occidental notes in a letter to the editor that "To realize the acuity of the bookstore staff one must examine their newest operational procedure. This they have named 'The Master Plan for Higher Book Prices.' Using this plan they will bolster their reported \$4,000 profit enough to warrant buying a new computer to help them devise a system that will make the bookstore even better in the future."

SAGA Conspiracy

The Cal Western Tide has a little note on its front page. It reads that "A change of hours for the snack bar has been announced by Cletus McGrath, SAGA manager of Cal Western's dining hall . . . It will not open Friday nights or weekends." Saga continues its nationwide march for the abandonment of meeting the desires of students.

Whale Watching

Closing the snack bar does have one advantage, however; it will give Cal Western students more time for their favorite winter sport. Another article in the Cal Western Tide begins: "Look! Out in the ocean! It's a submarine? It's your imagination? No, it's a Rhachianectes Glaucus. In other words, a California gray whale."

The captain under the accompanying picture of a whale's tail comments that "watching the annual migration of California gray whales is something few Westerners miss during mid-winter months."

Lent — Lease

Louisiana State University wasn't concentrating excessively on whales but they were suitably moved by the arrival of Lent to mention it in last week's Driftwood. The ears in this abnormally short issue of the Driftwood reflect LSUNO's ardent religiosity by noting: "The editors have given up two pages for Lent . . . Next week, we give up Lent."

Students at Virginia Tech have no less high-minded thoughts, however. One selfless son of VPI drove all the way to Roanoke early in February to take the Peace Corps test. The reason, as he remarked, was that "there's supposed to be a pretty great need for general science teachers in the Peace Corps, and since our science is about as general as it could get, it seems a natural for us."

"Unfortunately, we never got to take the test. Thirteen showed at that small room in the basement of the big Post Office Building in Roanoke, we being number 12, and they only had ten

test booklets. They couldn't understand it; they had never had more than five show up before. Numbers 11, 12, and 13 were kindly asked to come back in March."

Go In Peace

All was not lost in the trip, however, for, as this observer remarked, "they might not have let us in the Peace Corps anyway. We got a little carefree when we filled out our 8 page questionnaire for them. Like where it said 'Country To Which You Would Like To Be Sent And Why,' and we put 'Sweden — because of the social customs,' and where it said 'Type Of Business Your Father Is In,' and we put 'healing'. We felt we might as well let them know right away what was in store for them if they let us loose overseas."

In reality the problem is probably closer to where would the Peace Corps put a schizophrenic, or why singular people write plural letters.

Fifty Miles?

The problem of plural personages is more widespread than VPI, however. It also turned up in the Swarthmore Phoenix, where Ed Ayres was telling his own story of how, according to the Phoenix, he "ran, walked, and staggered 105 miles from Harrisburg to Philadelphia (God knows why) in a 'record' time of less than 24 hours." Ayres begins his story in the plural, continually using "we" to describe himself, but as the tale of his saga progressed, he suddenly switched to the singular for the last hundred miles of his momentous trek. It must have been too tiring for all but one of him.

Other schools have been similarly inspired by President Kennedy's recent suggestions, and though none has yet topped Ayres' valiant march, many have shown the true Teddy Roosevelt spirit.

More Marchers

Two trios at William and Mary College in Virginia set out to prove that they could better Bobby Kennedy's record of 17 hours for fifty miles. The first trio began their march (consisting of 28½ round trips on a pre-determined course) in the evening and were marching grimly in the 20 degree weather when they were attacked by a band of "townies"; unfortunately they had to call off their excursion after the police hauled in the offenders. The other group, beginning the following morning, were more successful and managed to beat Bobby Kennedy by 3½ hours.

More Maniacs

The tramping disease has spread even to the West Coast, and shows no sign of abating. The staff of the Redlands Bulldog after backing down on a promise to walk 65 miles to an Oxy basketball game, showed good intentions by promising to fulfill their pledge by marching 35 miles to a Pomona game. Commenting on their refusal to march the 65 miles to Oxy in one stretch, two staff members quoted "We're chicken." The group now intends to march the 35 miles to Pomona "dribbling, passing, and carrying a basketball to be presented to the 'Most Wasted SCIAC Cheerleader'."

The original refusal has disillusioned many faculty members (Continued on page 6)

Overseas Study Available For Juniors, Sophs

The Institute of European Studies has announced new admissions procedures and application deadlines for its academic year program in Vienna, Paris, and Freiburg, West Germany.

Application periods for all three programs opened officially on Monday, March 4.

Deadlines for applications have been moved from June 15 to June 5 for the programs, beginning next August and September. The Institute's admission committee will review all applications simultaneously after the deadline and mail notices of acceptance or rejection June 15. However, students with good reasons for seeing advance notice may petition the admissions committee for a decision before June 15.

Each program includes two field-study trips in Western Europe with Institute lecturers.

A folder describing the programs and listing requirements is available from the Institute of European Studies, 35 E. Wacker Drive, Chicago 1, Ill.

French Counsel

(Continued from page 1)

wants to proceed slowly toward a political union to form a firm foundation for it.

Common Market

Great Britain's entry into the EEC was vetoed by De Gaulle. La Villesbrunne stated that Britain was asked to join when the Treaty of Rome established the EEC. Now Britain wants to change the rules to fit her needs, namely special provisions for the Commonwealth. He said France cannot "accept a distortion of the Treaty of Rome." He said as soon as Great Britain agrees to the Treaty of Rome, De Gaulle would have no objection to her entry.

De Gaulle wants to build a separate nuclear force so that Europe can defend itself without the United States. He feels that as the world situation changes in the next ten to twenty years,

(Continued on page 6)



Faculty Approves Plan; "Rotation" To Be Used For Next Year's Frosh

The following motion was passed unanimously on March 5, 1963, at a meeting of the Faculty Committee on Student Houses.

The Faculty Committee on Student Houses approved the mechanism of Placement of Freshmen proposed by the Interhouse Committee on February 25, 1963, providing the new IHC (63-64) develops a set of specific rules for the administration of Visitation Week which is acceptable to the Faculty Committee on Student Houses.

The rotation plan proposed by the IHC, and passed by the Faculty Committee, is printed below.

"All freshmen will be assigned to a House for temporary living by the Master of Student Houses. Beginning the Sunday after New Student Camp, all freshmen shall visit each Student House for one day. Each freshman shall remain in his own House Sunday and shall eat his meals from Monday through Saturday in a different one of the other six Houses. At the conclusion of this Visitation Week, each freshman will fill out a Freshman Preference Card and submit it to the Master. On this card, each freshman must indi-

cate four or more Houses he would prefer to live in. There will be no ordering of these choices. At the same time, each House must have made up a Preference List ordering, individually, all freshmen. A copy of this list must be submitted to the Master.

"The final selection shall be made by a Placement Board consisting of the Master of Student Houses, as chairman, and the President and Resident Associate of each House. The method of selection shall be as follows: A House shall select the freshman highest on its Preference List provided this freshman has not already been chosen and provided he has rated the choosing House in his preferred four. The Houses shall select freshmen in turn, the initial ordering of the seven to be designated by the Master, and with suitable compensation for disproportionate numbers of freshmen assigned to each House. If, for example, one House has fifty per cent more frosh capacity than the other six, then that House shall select two freshmen on the second round and so on every other round.

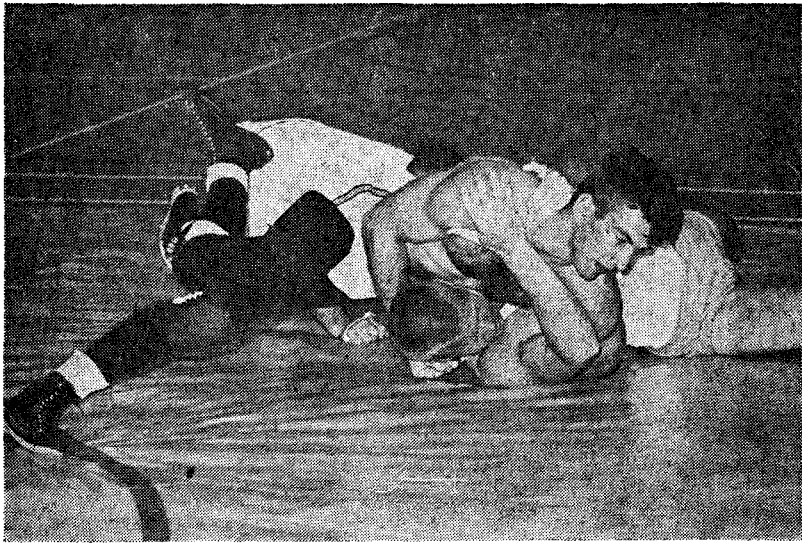
"If this selection procedure reaches a point where the choos-

(Continued on page 7)

Wherever you go you look better in

-ARROW-

How to be colorful—without overdoing it



—photo by Bob Levin

Doc Speir works for a pin in Claremont match.

Wrestling Team Downs Claremont

The Caltech wrestlers concluded their season more than a week ago by beating Claremont Mens College 26-8.

The match started with Akira Yoshida wrestling at 123. Aki was ahead of his opponent at the end of the second period, but was pinned by him at the beginning of the third. Dick McGehee was foiled from getting a takedown after executing a nice go-behind, and went on to loose to the Claremont Wrestler by a decision. Larry Wolfson wrestled a very spirited match at 137, and pinned his opponent. Chuck Palmer and Dave Falconer both beat their men by

pins. Tom Latham kept his opponent on his belly for the second and third period, but was unable to turn him over. Doc Speir piled up points into double digits, but also was unable to get a pin. Andy Kampe wrestled heavyweight and pinned his opponent quickly. Ken Kosai and Walt Paciorek wrestled exhibition matches.

The strength of the wrestling team increased markedly during the course of the season as people gained experience and conditioning. John Letcher is the only team member in the senior class, so that most of the wrestlers will be back next year.

Fleming Leads Discobolus Race; Stretch String To Four Wins

Fleming has climbed from sixth place to first place in the Discobolus Trophy race within the last three weeks. The streak of four Fleming victories started when Dabney lost to Fleming's ping pong challenge. Ken Stolarsky, Don Green and Dick Stanley won three of the four single matches for Fleming. Dave Barker was the lone Dabney victor.

Fleming then successfully defended the trophy against Blacker in a basketball challenge. Blacker forfeited the match in the fourth quarter with the Flemes leading 43-23. The Fleming victory was a result of the team's general hustle and of

some fine shooting by Roger Korus, Jim Simpson, and John Nady. The Blacker five were led by Steve Teigland and Art Johnson.

Fleming successfully defended the trophy a second time when they beat Lloyd 24-0 in a football challenge. Sparked by Jim Stadler's fine playing at offensive and defensive halfback, the Fleming team intercepted four passes and held the Lloyd team to two first downs. Fleming scored two touchdowns in the air and two on the ground to tally the victory.

Fleming then defended the trophy against a Page swimming challenge, 24-12. There were four events, the 50 yard free style, the 100 yard free style, the 50 yard back stroke, and the 50 yard breast stroke. Mel Stephens of Fleming took first place in both free style events, and won 11 points during the meet. Dave Jarvis added 7 more points to the Fleming score. Larry Rabinowitz and Dee Paine took first and second place in the backstroke event for Page.

The Discobolus standings are:

House	Trophy Points
Fleming	14
Dabney	12
Lloyd	12
Ruddock	10
Blacker	10
Ricketts	6
Page	3

French Position

(Continued on page 5)

a separate nuclear force would be advantageous to France. Now France would not be a third nuclear force but an integrated part of Western defense. La Villesbrunne said that France does not want to free herself from dependence on the U. S. which would tend to make France complacent. He said, "We want to become the United States of Europe," and does not want to miss the opportunity.

Tennis Players Overcome Oxy

The Caltech varsity tennis team rolled to another victory last Saturday with a 7-2 win over the Occidental Tigers. The Beavers, with Dave Owen returning to the line-up, looked very impressive in winning four singles matches and sweeping the doubles matches on the opponents' courts. With seven league contests remaining, the Techmen have a good chance for a second place and possibly even the league championship if their improvement continues. The win over Redlands two weeks ago snapped Redlands' string of 60 consecutive league victories.

Winners in singles against Oxy were Frank Curtis, 7-5, 6-4; Al Limpo, 6-1, 6-2; Ray Plaut, 7-5, 6-4; and Ted Gibbs, 6-2, 6-1. Doubles scores were Butch Niell-Limpo, 6-2, 6-2; Curtis-Owen, 6-2, 4-6, 6-4; and Freeman Rose-Plaut, 6-2, 6-2.

The frosh tennis team lost to the Oxy frosh, 7-2. Winners for Caltech were Jeff Pressing, 2-6, 6-4, 7-5, and the doubles team of Pressing-Richard Silver, 1-6, 6-4, 7-5.

Swimmers Defend Team Title

Caltech's Varsity swimming team successfully defended its team title in the SCIAC Relay meet held at the Claremont-Harvey Mudd pool last Saturday. Tech scored 63 points to defeat runner-up Occidental by 16 points. On the way to their second consecutive meet victory, varsity swimmers won three of the five relay events, placed second in one and third in the other. The team of Ted Jenkins, George McBean, Dave Seib, and Bruce Chesebro also established two new meet records, taking the 200 yd. freestyle relay in the time of 1:35.6 and the 500 yd. freestyle relay in the time of 4:41.7. The old records were 1:38.2 and 4:54.4 respectively, set by Caltech teams last year. Art Turner, Pat Manning, Mike McCammon, and Jim Shaw combined to win the 200 yd. backstroke relay in the time of 2:00.9. Shaw, Jerry Nelson, D. D., and Chesebro placed second in the 400 yd. medley relay and Tom Crocker, Jay Russo, D. D., and Nelson finished third in the 200 yd. butterfly-breaststroke relay.

Frosh

The frosh team placed second in the meet, losing to Occidental 50-66. The frosh could win

only one event; Phil Graul, John Walter, Bill Owens, and Steve Deichelmann took the 200 yd. backstroke relay in the time of 1:58.6, erasing the old meet record of 2:05.6. In the 400 yd. medley relay Owens, Pat Miller, Rich Nielson, and Larry Anderson set a new school frosh record while finishing second with the time of 4:16.0. The frosh also finished second in the 200 yd. butterfly-breaststroke relay and third in the 200 yd. and 500 yd. freestyle relays.

Past Meets

Last Thursday Caltech defeated San Fernando State 52-43 and San Bernardino Valley College 77-18 in a double dual meet. Bruce Chesebro turned his talents to the 200 yd. freestyle event and established an excellent mark of 1:56.2. Jerry Nelson posted his best time of the season in winning the 200 yd. breaststroke in 2:46.0.

Sunday Chesebro competed in a sectional AAU meet and placed sixth in the 100 yd. freestyle with a time of :51.6. Chesebro will represent Caltech in the National AAU Swimming meet to be held March 21, 22, and 23, at Yale University, competing in the 100 yd. freestyle event. This

will be the first time in several years that Caltech has been represented at such a high level.

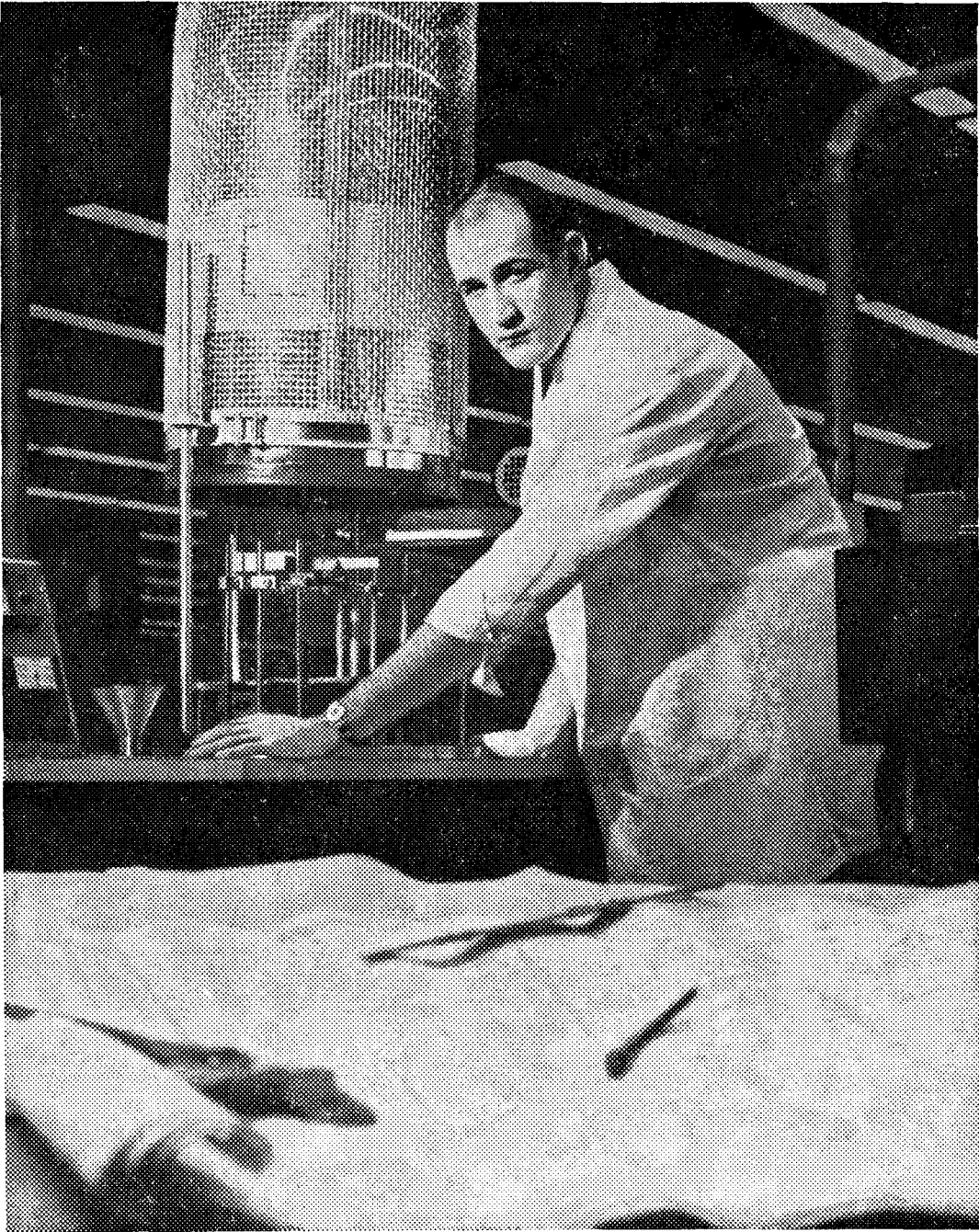
Both the frosh and varsity teams will make the long trip to Redlands this Thursday for the final meet before Spring recess. The Redlands team has two or three outstanding performers, but little depth. Nevertheless, they should furnish some difficult competition. The first action after vacation matches Tech with Claremont-Harvey Mudd on March 29.

More Campuses

(Continued from page 5)

at Redlands, however, and several have commented with such remarks as: "The physical condition of our nation's journalists is horrible. You fellows are lucky to make it to the common," "they are at the absolute nadir of physical condition," and "I've seen better physiques in tuberculosis sanitariums; they never had any shape to get out of."

In silent retort members of the paper staff have gone into intense training, including walking to class, getting to bed before 4 a.m., and eating at least one meal a day.



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Tech Trackmen Crush Biola In Dual Meet

In a combined frosh and varsity dual meet with Biola Bible Tuesday, Caltech swept all but six events. The final score stood at a gross 122 for Caltech to 18 for Biola. Top scorer for the Beavers was frosh Doug Gage, who won four events for 20 points, outscoring the entire Biola team.

Outstanding performances of the meet were Ken Brown's 10.1 second in the 100 yard dash (wind aided) and Gage's 16.6 in the high hurdles. Ed Lee won the 880 yard run easily in the good time of 2 minutes 5 seconds, and George Radke threw the shot 42 feet 9 inches. Many events on both the track and field were hindered by high winds and weak competition.

CHM Wins

Caltech succumbed to CHM in a dual meet Thursday a week ago by a score of 88 to 52. Caltech men performed better as individuals, however, than against Biola. Ken Brown ran 10 seconds flat, Steve Garrison vaulted 12 feet 9 inches, and Ed Lee ran the mile in 4 minutes 40 seconds. Bill Schoene tossed the javelin 182 feet, and George Radke threw the discus 137 feet. Caltech led in the relay until the final leg, which the CHM man covered in 49 seconds. CHM's great sprinter, Marvin La Rock had an easy day as he won the 440 yard in 51 seconds and the 220 in 22.5 seconds.

The next meet will be relays at Claremont early next term.

Rotation

(Continued from page 5)

ing House finds that all remaining freshmen have not placed it in their preferred four, then that House must select from freshmen who have already been chosen. This choosing House shall proceed from the last frosh chosen, in order, until it comes to a freshman who has designated it in his preferred four it must then take this freshman from the House which had already selected him. The opening now created in the House which just lost the freshman is to be filled immediately, and the normal order is then resumed. In this way it is hoped to maximize the number of freshmen being assigned to a preferred House.

"If this procedure should result in a recurring cycle, the Board shall proceed through the cycle to the end of one selection round, where the cycle will be terminated. A suitable resumption of the procedure shall be decided by the Master.

"If the method fails to the point that one House has more freshman openings than there are freshmen choosing it (or, in the more extreme case, where a group of Houses have among them fewer freshmen who have chosen any one of them than their total assigned capacity), then in addition to those freshmen who have chosen it, the Master may assign any other freshmen as he feels is best. It is hoped here to prevent a "bad" House from inevitably growing worse.

"A set of specific rules for the administration of Visitation Week shall be adopted by the next I.H.C. ('63-'64), those who will have to enforce them."

(Continued on page 8)

The Critical Ear

by
rickerman

Editor's note: This week's column is a review by Richard Karp of a series of seven records received by the Tech. This is for this week only.

The "Mercury Hootenanny" displayed at the right is a composite picture of seven folksinging groups that Mercury Records is releasing for the first time. The series is seven separate albums, but they are being released together in an apparent bow to the rising number of folk song enthusiasts in the nation.

Ernie Sheldon and Joyce James in "Songs of Laughter, Beauty, and Compassion" is probably the best of the new new groups (MG20781-SR60781). I am informed by J. C. Simpson that side one of this album is worth the price of admission alone. Probably the best song in the entire album is "The Day After Tomorrow," the first song on the first side.

In general, the second side does not meet the same standard as the beginning. The write-up on the back of the album waxes somewhat exuberant about some of the songs on the back side, but this is to be expected and, as usual, ignored. The praises for the beginning of the record are, however, well-deserved, and make its purchase worthwhile.

For Josh White fans, "Josh White—the beginning" presents some of Josh's early songs (MG 20724-SR60724). The beginning song on the album is "In the Evening," sung in the Josh White style, which is considerably different from a rendition of the same song by Pete Seegar. Other songs on the album are "Key to the Kingdom," "Howlin' Wolf," "Job:19," "How Boys, Can't You Line 'Em," "Evil Hearted Man," "My Father Is a Husband Man," "Blues Come From Texas," "Sit Down Servant," and "Lijah." The album should be welcome to all old and new Josh White fans.

"The Funny Side of the Smothers Brothers—think ethnic!" is the 'comedy' folksong song release in the series (MG20777-SR-60777). The album includes some very funny mimicing of folksongs, including "Black Is the Colour of My Love's True Hair (!)" and "My Old Man is a Refrigerator Repairman." Although the album suffers from a general heavy-handed nature of comedy in the dialogue, the singing is considerably more enjoyable. Perhaps worth purchasing

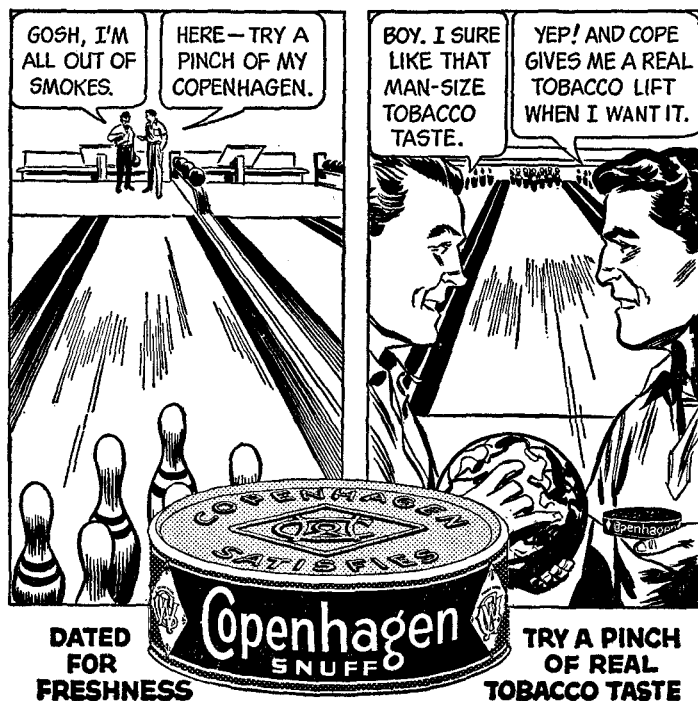
the record for real folksong buffs is the song entitled "Venezuelan Rain Dance" on the jacket but sounding suspiciously like "Hava Negila" to a slow beat.

Perhaps the most promising group, as far as singing ability, Inman and Ira, with their album "Swinging Spokesmen for the New Generation." (MG20778-SR-60778) The title, of course, has no connection with the contents of the record. Although the group is the most promising, the album is not the best. The primary reason for this is music selection. A demonstration of this is the apparent concern for children's songs. Two bands, one called "Julie" and the other called "My Dog's Bigger Than Your Dog," give a dynamic demonstration that Inman and Ira were not meant to sing children's songs. With a better selection of songs, however, this duo could probably come out on top.

The next new group call themselves the Couriers, and their first album is "The Couriers Carry On." (MG20772-SR60772). While this group does not come anywhere near the Mercury fiasco in releasing a group of teenage folksingers recorded by the "Hi-Top Junior Achievement Company" and sounding just like the name implies, they still have some ways to go before they reach perfection. The songs that the Couriers sing range from "Sing Hallelujah" to "Vayiven Uziah." The last new group is the Knob Lick Upper 10,000. (MG-20780-SR60780) The album takes pains to note that "Knob Lick is a town in Kentucky. Upper 10,000 is translated from a German term meaning 'gentry.' So there, Ripley!

This group is a new entry into the bluegrass field. Although their own arrangements differ somewhat from the traditional ones, the songs are generally well done.

The last album is titled simply "Flatt and Scruggs." (MG20781-SR60781). It is a collection of the early songs of thea forementioned two, and, as might be expected, will probably be snapped up by bluegrass fans. There is a rather corny dialogue on the back with the writer asking long questions and Earl Scruggs answering with words like "Yeah, a lot of nice people helped us." This should not stop one from purchasing the album, however, as it is a good selection and very enjoyable.



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Richness Shown Fatal Disease

Herein lies another comment on those seekers of fortune — the men who came to Tech because a sheepskin from such a school insures a few more dollars. This article was sent to the **California Tech** by the American Machine and Foundry Company (Bowling Division). A word to the wise:

"In 1923 eight of the world's most successful financiers met in Chicago. They were men who had found the secret of making money. They were:

The President of the largest independent steel company.

The President of the largest gas company.

The greatest wheat speculator.

The President of the New York Stock Exchange.

A member of the President's Cabinet.

The greatest "bear" in Wall St.

Head of the world's greatest monopoly.

President of the Bank of International Settlements.

"In Milwaukee, that same year, a champion was crowned at the 23rd Annual ABC Tournament, the world's most important bowling tournament.

"AMF star bowler Evelyn Teal, who was born in 1923, did some research and found out where these men are, forty years later.

"The President of the largest independent steel company, Charles Schwab, died bankrupt, living on borrowed money for five year before his death.

"The President of the largest gas company, Howard Hopson, became insane.

"The greatest wheat speculator, Arthur Cotton, died abroad insolvent.

"The President of the New York Stock Exchange, Richard Whitney, was sentenced to Sing Sing Penitentiary.

"A member of the President's Cabinet, Albert Fall, was pardoned from prison so he could die at home.

"The greatest "bear" on Wall Street, Jesse Livermore, committed suicide.

"The head of the world's greatest monopoly, Ivar Kreuger, committed suicide.

"The President of the Bank of International Settlements, Leon Frazier, committed suicide.

"The winner of the ABC Singles Title in 1923 was Carl A. Baumgartner. In 1963, forty years after winning his ABC championship, he is still going strong and is an advertising and public relations executive living in Garden City, New York.

"The conclusion? Stop worrying about money and business, says Mrs. Tael. Go out and bowl."

More Rotation

(Continued from Page 7)

This rotation plan was drawn up by last year's Interhouse Committee, who stayed on to complete this action. The plan will now be taken over by the new IHC whose major task will be the formulation of specific rules and regulations for conducting and administering the plan. They will also govern its application to next year's frosh. Another project which the new IHC may adopt is finding a new name to replace "rotation", which has developed an unfavorable stigma in the eyes of many people on campus.

House Election

(Continued from page 1)

New Fleming Prexy will be Bill Schoene; Vice-President will be Steve Hillyard; Secretary, Ed Perry; Treasurer, Dick Essenberg; Social Chairmen, Bob Gil- lon, Pete Clark, Gordon Meyers and Pete Wyatt; and Librarian, Jack Saunders.

Art Johnson was Blacker's choice for president. The new Athletic Managers are Bill Fame and Bill Tyler; Secretary, Jerry Austin; HS, Buddy Taylor; HHA, Joe Bocklage and Rich Green. The remaining positions, those of Vice-President, Social Chair- man, and Treasurer; will be elected in a second election to be held this evening.

Dabney's officers, led by Herb Flindt serving as President, are the following: Executive Vice- President, Rich Uhrich; Social Vice-Presidents, Dan Borgan, John Beamer and Bob Scott; Treasurer, Jack Comly; Secre- tary, Jerry Gowen; Comptroller, Jerry Yudelson; Athletic Mana- gers, John Hsu and Paul Swatek; and Historian, Paul Chaikin.

Type Styles Demonstrated With Many Vivid Examples

During the past few years several persons (four-all on the Tech staff) have inquired about the type styles used in the **Calif-ornia Tech**. As an answer to these inquiries and to all those which will probably never arise in the future, this article will at- tempt to explain the type styles used in this paper.

The body and most of the arti- cles including this one are printed in 8 point paragon.

Notices on page one employ 8 point metro bold heads (all in captials), and the notices them- selves are printed in 8 point metro italic. An example is re- produced from last week's paper.

CHEM 46

Needs more units.

Editorials use 30 point Kabel bold heads, and are printed in 10 point metro italic, such as:

Chem 46 needs more units.

The heavy black type seen in articles and subheads is called boldface and is available in 6, 8, 10, and 12 point Metro, 10 and 12 point Memphis, and 8 point

paragon, as seen below.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

Special sizes and styles also used in advertisements and spe- cial features are 6 point metro italic, and 10 and 12 point Mem- phis italic.

Chem 46 needs more units.

Chem 46 needs more units.

Chem 46 needs more units.

As a final clarification, some of the small headline styles used in the Tech are presented. Ex-

amples are 18 point Tower, 14 and 18 point Stymie Medium, 18 point Stymie Bold, and 14 point Cooper Bold.

Chem 46

Needs More Units.

Chem 46

Needs More Units.

Chem 46

NeedsMoreUnits.

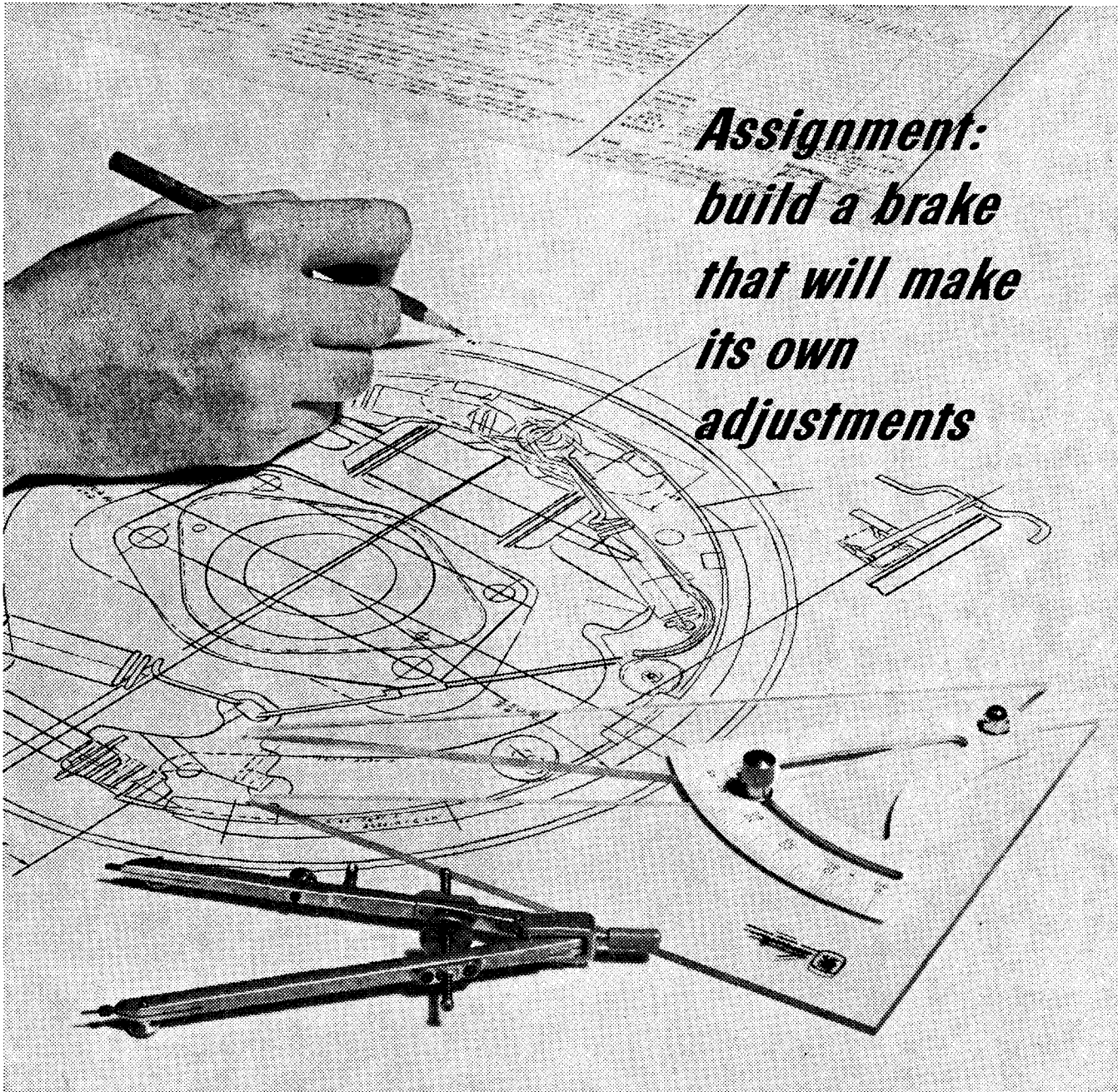
Chem 46

Needs More Units.

Chem 46

Needs More Units.

UNITARIAN PUBLIC FORUM
Joe Dolan
KHJ RADIO and TV COMMENTATOR
Speaks On THE U.S. "MINISTRY" OF PROPAGANDA AND PEACE
Friday, March 8 - 8 p.m.
First Unitarian Church, 2936 W. 8th St., L.A.
Donation \$1.00
Questions



It's now a fact: every Ford-built car in '63 has self-adjusting brakes

"Give us a brake," Ford Motor Company engineers were told, "that will automatically compensate for lining wear whenever an adjustment is needed—and make it work for the entire life of the lining."

Tough assignment—but not insurmountable. Today, not only does every Ford-built car boast self-adjusting brakes (Falcon extra-duty bus-type wagons excluded), but the design is so excellent that adjust- ments can be made more precisely than by hand.

This Ford-pioneered concept is not complex. Key to it is a simple mechanism which automatically maintains proper clearance between brake drum and lining.

Self-adjustment takes place when the brakes are applied while backing up. This adjustment normally occurs but once in several hundred miles of driving. The brake pedal stays up, providing full pedal reserve for braking.

Another assignment completed—and another example of how Ford Motor Company provides engineering leadership for the American Road.



MOTOR COMPANY
The American Road, Dearborn, Michigan
WHERE ENGINEERING LEADERSHIP
BRINGS YOU BETTER-BUILT CARS