

CALIFORNIA TECH

Volume LI.

Assembly Stars Bacher, Smith

Tomorrow's assembly promises to be one of the most worthwhile assemblies presented in Culbertson Hall's long history. Not satisfied to have one good speaker, the program will have two men, each of whom would be well worth hearing all by himself.

The first speech will be given by Dr. Hallet D. Smith, followed immediately by Dr. Robert F. Bacher. Both of these men have recently joined the Tech faculty as division heads, Dr. Smith being chairman of the Division of Humanities, and Dr. Bacher, chairman of the Division of Physics, Mathematics, and Astronomy.

Guggenheim Winner

Dr. Smith came to Tech from Williams College where he has been teaching since 1931. After receiving his B.A. from Colorado University, he went to Yale and received his Ph.D. there. He also studied at the British Museum in London, where he did work in the field of Elizabethan literature.

Later he came to Pasadena to study Elizabethan poetry at the Huntington Library, and in 1947, he received the Guggenheim Award. He has published a freshman English text, "The Critical Reader."

AEC Member

As sole scientific member of the Atomic Energy Commission, Dr. Bacher has been very much in the public eye since 1946. His work with the government began when he left his post as a physics professor at Cornell in 1941 to join the radiation laboratory staff at M.I.T. Two years later he was made chairman of the Bomb Physics Division at Los Alamos, New Mexico, and in that capacity, supervised the development of the nuclear component of the first atomic bomb.

(Continued on Page 4)

LaTourette New Frosh Prexy

Political battles were rampant in the frosh class as the elections of officers for the class of 1953 were held last Friday, January 27.

Jim LaTourette was chosen class president over Bill Wilmore. Neil Stefanides defeated Leon Vickman and Gene Jordan for the office of vice president, while Angel Ottati received the office of secretary-treasurer in a close runoff election Monday over Larry Starr. George Moore was also nominated for this office. John Gee was unanimously elected athletic representative. Jerry Ross and Dick Rodbury were elected to the board of control over Ed Stofel and Al Teague.

Prexy's Statement

Asked for a statement, Jim expressed his thanks, and said that while he and his able cabinet will not be able to do much this term, he is looking forward to a beach party in the spring term.

Congrats

Congratulations are also due to the other officers of the cabinet, and especially to Jerry Ross and Dick Rodbury who have the long, often thankless job of acting on the 'honor system jury' and the student-faculty committee.

The honors are shared by Tom Jannsens, past president, and his fellow officers for their services to the class.

Dr. R. W. Sorenson Honored By Eta Kappa Nu Association

Dr. Royal W. Sorenson was honored by Eta Kappa Nu Association, national honorary organization of electrical engineers, by election to the association as an Eminent Member last Monday in New York City.

Two other outstanding U.S. scientists, Dr. Vannevar Bush, president of the Carnegie Institution of Washington and Director of Scientific Research and Development for this country during the war, and Dr. V. K. Zworykin, head of research for the Radio Corporation of America, received the same honor.

First Award of New Honor

This is the first time that Eta Kappa Nu has awarded this honor, although it has been provided for in the organization's constitution for many years.

Dr. Sorenson, Professor of electrical engineering at Caltech and recognized as one of the deans of electrical engineering in this country, has seen many of his students receive Eta Kappa Nu awards for outstanding work in E.E. since he first began teaching that subject at Caltech in 1910. Each year the organization honors a young man (under 35) in the field who has done outstanding work, not only in the profession, but in community service during his first 10

years following graduation from college.

Of the 13 young electrical engineers who have been chosen for this award, three have been former students of Sorenson's at Caltech.

In addition to the Eta Kappa Nu meeting, Dr. Sorenson will attend the winter general meeting of the American Institute of Electrical Engineers in New York City. He was president of that organization in 1940-1941. He will also visit Cambridge, Mass., where he will confer with officials of the Ultrasonic Company regarding investigations he is making on the use of ultrasonic equipment in the control of aerosols. He also plans to visit the new General Electric 20-million volts laboratory at Pittsfield, Mass., and the new Research Laboratory at Schenectady, New York, before returning to Pasadena. He will be accompanied on his trip east by Mrs. Sorenson.

Other Caltech engineers who will attend the AIEE meeting are Dr. Fred C. Lindvall, Chairman of the Division of Civil, Electrical and Mechanical Engineering and Aeronautics; Dr. W. H. Pickering and Dr. G. C. McCann, Professors of Electrical Engineering.

Campus Calendar

THURSDAY, FEBRUARY 2
12:00 Throop Club Meeting
12:00 Y Upperclass Lunch Club
7:15 ASCIT Board of Directors Meeting
7:45 Dancing Class in Culbertson

FRIDAY, FEBRUARY 3
7:00 Basketball, Caltech Reserves vs. Pasadena College Reserves at Pasadena College
8:15 Basketball, Caltech Varsity vs. Pasadena College Varsity at Pasadena College

SATURDAY, FEBRUARY 4

Dabney-Throop Barn Dance

Blacker Dinner Party Dance

Ricketts Apache Dance

SUNDAY, FEBRUARY 5
7:30 Film Classic Series in Culbertson

MONDAY, FEBRUARY 6
7:30 Film Classic Series in Culbertson

TUESDAY, FEBRUARY 7
12:00 Y Frosh Lunch Club
7:15 Alumni Placement Lecture in Dabney House

WEDNESDAY, FEBRUARY 8

7:30 Orchestra Rehearsal in Culbertson

9:00 Glee Club in Culbertson

Blacker Brews Brigand's Ball

Salty Blackerites are polishing up their sea chanties this week in anticipation of the Brigands' Ball which is being staged this Friday evening. The men are going to feast themselves and their dates on exotic Oriental dishes to start the evening off right and then move out into the lair-like lounge. After dancing to the music of Vaughn Monroe (and others), entertainment suitable for a Pirate's Den will be offered. The festivities will start at 7:30; anything accomplished after midnight will be left to individual ingenuity.

John Fee

For as far back as I can trace the succession, the job of Yell Leader here at Tech has evidently been considered a heirarchy in which each Yell Leader chooses a successor who runs unopposed. This attitude is based on two misconceptions,

Yell Leader

the working clothes of the French thief pour les hommes, and cheap and provocative pour les filles. The mise en scene will be equally dusky and brutally criminal in appearance.

Festivities will begin at 9:00 p.m. and will last—
(Continued on Page 2)

California Institute of Technology

Thursday, February 2, 1950

No. 15

Hibbard Views Air Industry

The Vice-President and Chief Engineer of the Lockheed Aircraft Corporation at Burbank, Mr. Hall Hibbard, will be Caltech's guest at next Tuesday's Alumni Placement Lecture. "The Aircraft Industry" has been a subject of great interest in recent times, and will be discussed extensively at 7:15 p.m. in the Fleming House Lounge on February 7.

Advancement Chances

The trend of the lecture will be the type of engineers and scientists employed in the aircraft industry, including a special emphasis on the opportunities for holders of Bachelor of Science degrees and their chances for advancement.

As usual, the final topics will include information pertaining to the value of higher degrees in aeronautics as exemplified in the master's and doctor's degrees.

Attended MIT

Mr. Hibbard is an outstanding engineer in the aircraft field, knows the "behind-the-scenes" operations of the industry, and thus can give to the Caltech students many tips gained from long experience. Also a help in seeing the point of view of the Techman is Mr. Hibbard's own education. After receiving an A. B. degree from the College of Emporia, he followed with a M. S. from M. I. T.

His previous experience has been with the Stearman Aircraft Co. at Wichita, Kan., Viking Flying Boat Co. at New Haven, Conn., and the Stearman-Varnay Co. at Alameda, Calif.

Future programs will feature such controversial themes as drinking, fraternities versus student houses, and possibly a radio skit in a humorous vein. All Caltech students and other interested friends of the Institute are urged to tune in at 8:15 on Wednesday evenings for these engaging 15-minute broadcasts.

Second of a Series . . . Four More ASCIT Officers Cite Qualifications for Jobs

Ed. Note: This is the second of a series of three articles whose purpose is to explain the duties and qualifications for the nine ASCIT Board positions and Yell Leader. This week positions of Treasurer, Yell Leader, Secretary, and Second Representative are reviewed.

Treasurer

Probably the most interesting office on the ASCIT Board is that one held by the Treasurer. This is because by nature of his position he is related to all aspects of the Board's activities. Though the responsibilities of the Treasurer are many and varied, most of them have been standardized which has reduced them to a routine. For example, the Treasurer is responsible to prepare an annual budget, to collect all the moneys due the corporation, to account for this money, and to control its expenditure by channeling it towards the budgeted items. He has the additional duties of maintaining insurance records (photographic equipment, cap & gowns, etc.), preparing tax reports (income, amusement, etc.), and assembling periodic inventories of ASCIT equipment.

Keeping Books

Naturally the outstanding function is "keeping the books." This is really not as mysterious as many have been lead to believe. Terms like "Double Entry," "Amortization," "Deferred Charges," "Assets," "Liabilities," etc. all have a simple meaning and can be grasped quite readily. Though an accounting experience is extremely beneficial, it is not a prerequisite for this office. A little time, and a conscientious effort on the part of any average Tech student could mold him into an efficient and responsible Treasurer.

John Fee

For as far back as I can trace the succession, the job of Yell Leader here at Tech has evidently been considered a heirarchy in which each Yell Leader chooses a successor who runs unopposed. This attitude is based on two misconceptions,

Y Finance Drive Opens Monday; \$2500 Goal Set

Radio Panel To Weigh Biology

Continuing the Caltech Y Radio Forum series, a discussion of some of the more intriguing aspects of biology, and their importance in the world today, will be informally discussed next Wednesday evening.

At 8:15 p.m. on station KXLA (1110 on the radio dial) Mike Callaghan will moderate on a program which promises a timely coverage of the field of biology and just WHY it is of interest to the citizen.

Graduates' Role

Yesterday evening Fred Drury, president of Blacker House, led a lively panel on the topic, "Would You Like to Live the Life of a Graduate Student?"

Bill Karzas, a graduate majoring in physics, presented one side of the question, while Barry Schuyler examined the subject from the undergraduate's point of view.

Listen In!

Future programs will feature such controversial themes as drinking, fraternities versus student houses, and possibly a radio skit in a humorous vein. All Caltech students and other interested friends of the Institute are urged to tune in at 8:15 on Wednesday evenings for these engaging 15-minute broadcasts.

Annual Fund Raising Campaign Aided By 150 Tech Student Solicitors

The Caltech Y will start its annual fund drive next Monday morning with over 150 solicitors in the field. The drive will continue through Friday afternoon in order to collect the goal of \$2500. During the week every person on campus will be solicited by one of the many people working for the Y.

"Your support for the Caltech Y is needed if the Y is to continue its present program," said Y President Bob Crichton. "With your support the Y will try to extend its program and opportunities to meet the needs of the campus."

Joe Cain, chairman of the drive and treasurer of the Y, announced that there will be a meeting of all the people that are soliciting for the Y in 206 Dabney tonight.

The goal of \$2500 represents one fourth of the Y's total budget. An equal amount will come from the Institute, while the other half of the funds necessary to support the Y comes from the Pasadena Y.M.C.A. and direct contributions from faculty, parents, and friends. The total budget is \$10,000.

Lots Participate

Of the 735 undergraduates, 625 came into direct contact with the Y last year, and over one-third of the undergraduate students were regular participants in some phase of the Y program. All of the Y's services are open to the graduate students as well as the undergraduates.

The Caltech Y attempts to meet the students on their own level and help them to grow mentally, morally, and spiritually. Noteable among the ways the Y tries to broaden the students is the service of the firesides. These firesides offer the student a fine opportunity to get acquainted with his faculty. The Y also has forums, lectures, and luncheon clubs which serve the students and the faculty.

Loan Service

In a material sense too, the Y helps the students. The Y conducts a short term, no interest, no collateral, no questions asked loan service. It also offers office supplies to those who take the trouble to go to the Y office and avail themselves of them.

(Continued on Page 4)

Conger Prize Contest Opens

Deadline for submitting manuscripts for the Caltech annual Conger Peace Prize speaking contest has been set for April 25, according to Lester McCrery.

First prize for the best essay on the topic of world peace or industrial peace will be \$50, and second prize will be \$25.

Any regularly enrolled undergraduate student who has not won a prize in a previous Conger Contest is eligible. The essays selected will be presented orally before a regular student assembly.

Students wishing to compete should submit their manuscripts to Mr. McCrery in Dabney Hall 303 not later than April 25. Below are the general rules for the contest:

Rules

1. Contestants must be regularly enrolled under-

(Continued on Page 4)

Rowdies Summon True Paris Esprit

The worst of the French underworld will concentrate in the charming continental atmosphere of the exclusive cabaret, "La Vache Mort," just off Rickert's court this Saturday evening. Entre nous, the Rowdies all agree that this annual event

—The Apache Dance—is the genuine coup de maître of the entire year's social program.

The entrance to the Parisian settings, although a closely guarded secret, is rumored to be via the musty sewers underlying the campus. Supplying the traditional background for the French folk dances (a la Rickerts) will be Monsieur Hal Neely, whose talents have so well been demonstrated at previous gatherings of the apache.

Cheap Women

Costume will be traditional: the working clothes of the French thief pour les hommes, and cheap and provocative pour les filles. The mise en scene will be equally dusky and brutally criminal in appearance.

Festivities will begin at 9:00 p.m. and will last—

FEB. 2—WESTINGHOUSE ELECTRIC CORP., Mr. Stanley M. Johns, Manager, and Mr. E. W. Morris, Mgr. of Eng. & Service Dept., will conduct a group discussion in 206 Dabney Hall at 4:30 p.m. Thursday, February 2. All men who desire to be interviewed by this company should attend.

FEB. 6—INSTITUTE OF GAS TECHNOLOGY, Chicago, Ill. Mr. Guy Corfield, Research Engineer of Southern Calif. Gas Co., representative for Los Angeles area, will be on campus to interview BS degree men in Mechanical, Chemical and Electrical Engineering, and Chemistry concerning Fellowships. A program is given in Gas Engineering. For further details see the Placement bulletin board.

FEB. 7—DOUGLAS AIRCRAFT COMPANY, Santa Monica, Calif. Mr. C. C. La Vene, Engineering Division Employment Manager, will be on campus to interview PhD degree men in Mechanical, Electrical, Communications, & Servo-Mechanisms, Aeronautical Engineering (all phases), and Physicists (Electronics, Communications & Physics). For further details see the Placement bulletin board.

FEB. 9 & 10—WESTINGHOUSE ELECTRIC CORP., Los Angeles, Calif. Mr. Stanley M. Johns, Manager, and Mr. E. W. Morris, Mgr. of Eng. & Service Dept., will be on campus to interview BS & MS degree men in Mechanical and Electrical Engineering. (Interviewing only for graduate student training course in Pittsburgh, Pa.) PhD candidates in Chemistry and Physics will be interviewed for specialized investigation and development work.

FEB. 13-14—PROCTER & GAMBLE CO., Long Beach, Calif. Mr. Myron S. Dodge, Industrial Relations Supervisor, and Mr. Knoll, Service & Standards Dept. of the Engineering Division, will be on campus to interview Mechanical, Electrical, Civil and Chemical Engineers, Applied Physicists and Chemists

Why The Y?

Within the next few days you will be asked for a contribution toward the financing of the Caltech YMCA for the following year. Since 1946 this winter fund raising campaign has met with success in the solicitation of Tech students, both undergraduate and graduate, Faculty, and the many people interested in the Institute and the Y.

A Goal of at least three dollars per man is desired by the Y; to us financially-limited students, three bucks sounds like a pretty sizeable donation for any organization. But think about the Y for awhile; consider how many Y-sponsored activities you have attended the past year; recollect the numerous services which have benefited you that the Y directed. And remember how much more is available to you through the Y.

It goes without saying that almost all of us have attended one or more of the Y forums, luncheon clubs, or firesides; many have made use of the loan service, the lost and found, the book exchange, or the Y lounge with its comfortable sofas, magazines, free telephones, and office supplies.

Perhaps as a Frosh you were given a friendly Tech greeting by being met at the station as you arrived for your sojourn here; or perhaps you took in a slide rule seminar in your first few weeks at Tech. Most certainly you spent one Sunday afternoon circulating at the annual Frosh Tea Dance.

However, there is more to the Y than these popular activities. The Y has as its major objectives the development of religious understanding, building of character, and leadership ability. Through religious fellowship groups, counseling, intercollegiate conferences, and ye olde bull sessions, these objectives are being realized in many Caltech students.

Under the dynamic leadership of Wes Hershey, the Y has matured into the most versatile and popular (on a basis of student participation) organization on the campus. Only through its annual fund drive can the financial impetus necessary for 12 month operation be obtained.

The Y earnestly needs your support; give generously.

Give It To The S.F.R.C.

Last week a report to the student body on the problem of graduate instructors and their worth was given in the California Tech. It is significant that the survey upon which this report was based was initiated at a meeting of the Student-Faculty Relations Committee.

However, the graduate instructor issue is only one of many dealt with at the meeting of this committee. Not enough students realize that many of the recurrent complaints about grades, assignments, units, etc., could be acted upon by this committee, if the committee were informed of the particular situation.

Beak and beak as you may, your beaking will serve no purpose unless it brings about constructive action. Therefore it is up to each student to offer his gripes through the proper channels, one of the members of the Student Faculty Relations Committee.

Excerpts of the minutes of the last committee meeting will serve to show that the committee does handle a wide variety of issues, and that many complaints which students think are either too general or too trivial could be effectively remedied or brought out into the open by discussion in the committee.

Following are excerpts from the minutes of the last Student Faculty Relations committee meeting. It must be kept in mind that the minutes, particularly in the section regarding the attitude of the Physics department, are necessarily compact and that a great deal of discussion is omitted.

Report of sub-committee on course correction: Prof. Eagleson read a report submitted by a sub-committee of students, Crichton chairman, that had been appointed last year to investigate complaints about course content and course overloading, and to recommend corrections. The report listed several specific complaints, and indicated that conferences between the student committee and faculty concerned had brought about satisfactory elimination of most of the complaints. It was:

Moved (Crichton, Drury) that the report be accepted and the sub-committee discharged. Motion passed.

Physics Department: Ralph Lovberg reported that physics majors were unhappy over the apparent discouraging attitude of the Physics Department toward undergraduate students in physics. Kent Stratton cited as an example the negative attitude expressed by Prof. Smythe toward the Physics Club. Other students reported that the attitude of the Physics Department was destroying the enthusiasm of well-qualified physics undergraduates. It was:

Moved (Jones, Sharp) that the Chairman arrange with Dr. Bacher for a meeting between representative undergraduate students in physics and representative members of the Physics Department to explore the question of whether the department is actually discouraging students in physics. Motion passed.

Examinations in Economics: Bill Freed reported that students felt that examinations in Econ. were trivial and devoted too much to minor detail. He stated that students felt the course content was worthwhile, but that the examinations seemed to have been designed solely from the standpoint of easy grading, and bore little relation to the course content.

After some discussion, it was left to the Chairman to transmit to the Economics Department the existence of such feeling of dissatisfaction by the students regarding Econ. examinations.

Remember, if you have a gripe, transmit it to the Student-Faculty Relations Committee. The committee meets once a month.

B. K.

The Evening Concert

KFAC 8-10 p.m.

Presented by the Southern California and Southern Counties Gas Companies

THURSDAY, FEBRUARY 2

Il Signor Bruschno—Overture, by Rossini. Pittsburgh Symphony Orchestra conducted by Fritz Reiner (5). Ma Vlast (My Country)—Symphonic Cycle, by Smetana. Czech Philharmonic Orchestra conducted by Otakar Jeremic (75).

Le Coq D'Or—Suite, by Rimsky-Korsakov. London Philharmonic Orchestra conducted by Eugene Goossens (25). Danse Macabre, by Saint-Saens. The Philadelphia Orchestra conducted by Leopold Stokowski (7).

FRIDAY, FEBRUARY 3

A Program of New Recordings The Barber from Bagdad—Overture, by Cornelius. Dresden Philharmonic Orchestra conducted by Paul van Kempen (8). Symphony No. 1 in C Minor, by Brahms. Concertgebouw Orchestra of Amsterdam conducted by Herbert von Karajan (48). Paul Richard, Violinist. Concerto Gregorianum, by Respighi. Berlin State Opera Orchestra conducted by Edward van Beinum (24).

One Balletsuite, by Reger. Concertgebouw Orchestra of Amsterdam conducted by Eduard van Beinum (24). Apparition Ballet—Galop, by Liszt. The Philharmonic Orchestra conducted by Constant Lambert (4).

SATURDAY, FEBRUARY 4

The Magic Flute, by Mozart. Soloists, Chorus and Orchestra of Berlin State Opera conducted by Sir Thomas Beecham.

MONDAY, FEBRUARY 6

Overture in F Major, by Weisgall. Czech Broadcasting Orchestra conducted by Hugo Weisgall (8). Symphony No. 2 in B Minor, by Borodin. The Halle Orchestra conducted by Constant Lambert (28).

Concerto for Piano and Orchestra, by Martinu. Czech Philharmonic Orchestra conducted by Jaroslav Krombholc (24).

Serenade for Orchestra, by Reger. Con-

God!

The doctor had examined his patient and had then asked to see the man's wife alone. He offered her a chair and bluntly stated: "I don't like the looks of your husband, Madam."

She apologized: "Neither do I, doctor, but he's good to our children."

Potpourri

By Bob Crichton

Revolt in the Athenaeum! Just a few days ago, 18 graduate students who eat in the Athenaeum signed a petition (on the back of a menu) requesting "That peppermint stick ice cream shall cease to be served in the dining room".

* * *

Tom Stix is to be married to Hazel Sherwin in June after finishing his work at Princeton. They are planning a honeymoon in Europe.

* * *

George Hall has been appointed to the advisory committee of the Medical Research Society of Southern California.

* * *

The Fumarole (magazine of the Geology Department) in the last issue printed the following excerpts from Ge. la finals.

Question: Part of Illinois lies west of the Mississippi River. How did this come about?

Answer: "The river was there first, and the state formed right across it. No telling what these politicians will do!"

Question: Explain briefly the origin of Crater Lake, Oregon.

Answer: "Crater Lake is a caldera. It originally was a volcano. It has sunk in several thousand feet in the middle like a cake which falls when the oven door is opened too soon."

Question: Suppose you were given the job of stopping a migrating sand dune. What would you do?

Answer: "As a last resort I would dig a hole and let the sand dune migrate into that."

Answer 2 (paraphrased due to the paper shortage): "I would first build a steel shell over it (thickness and type of steel specified), leaving a small opening on the downwind side. Then I would promote a 'sand for your kiddies sand box' sale until all the sand had been removed. Then think what a nice hangar we'd have for small private aircraft."

* * *

The Wall Street Journal in reporting on the 116th meeting of the Association for the Advancement of Science, carried the heading, "Sad Scientists—12,000 of them agree they know too little—especially about people."

* * *

One of President Conant's Chapel Talks to Harvard students was reprinted in "What The Colleges Are Doing". It is so good that I reprint most of it here.

"One of the constant features of universities throughout the centuries has been the unorganized ferment of student opinion. A re-examination of religious, political, social, and cultural doctrines, a rewriting of current history, a vigorous appraisal of the older generation—by such processes of endless discussion and debate outside the class room each generation of college men gives shape to a new body of opinion. And twenty or thirty years later these same opinions may well be dominant in the nation. This is especially true in those periods of transition when, in retrospect, we can see that, faced with new problems, men have struggled long and hard to find the answers. In particular, the close of a great war has often been the signal for a reorientation of the views of the articulate members of society. You, gentlemen, are the vanguard of what historians fifty years from now will call the post-World War II generation. The ideas that emerge among you, representing the consensus of your group, may well have special significance for the twentieth century."

Music Lovers . . .

Early and efficient scouting by Peter Knoepfle has resulted in his procuring twenty-five tickets for each of the two concerts which Arturo Toscanini and the NBC Symphony Orchestra will give in this vicinity sometime in April. The tickets may be purchased by anyone at the box-office prices, which begin at \$3.60. All interested should contact Peter Knoepfle in Room 30, Dabney, or Bill Whitney, Room 23, Dabney, as early as possible.

• CAMPUS BREWINS

Even the normally stable eyebrows of the Ancient Beak were raised somewhat last Friday night at the sight of about 30 couples crammed happily into the once-happy home of Shepard and family. Gay Darbs and Darbettes were guided to Hobart's maul with the help of the San Marino Police Force (more cops per capita than any town in the world). This co-operation from the local gendarme was discovered by one of the incipient celebrators who stopped to ask one of the officers how to get to the fracas. Before he got his query formulated the cop says, "Oh, you must be looking for that big, ---- party raging down at Shepard's house," and directs them thereto in short order.

A little more trouble getting to Hobart's was experienced by Hedrick and Wood, who spent a large part of the evening out at the Inglewood airport, sweating out the arrival of an aircraft upon which was a TWA hostess in whom they were interested. The plane arrived three hours late, making it difficult (but, as it turned out, not impossible) for the late arrivals to catch up with those already there.

MacKenzie showed, squiring a visiting geologist (type, female) from U. of Ariz. and gave her an unexpurgated version of life in Tech's geology department, complete to crawling everywhere he went (the bar, mostly) on his hands and knees, and bowing highball glasses down the length of the dance floor. The same exuberant individual was seen Sunday keeping the company of one Aggie, whom the Otter had taken Friday to the Barnstorm, apparently perpetuating a competition that promises to become a custom in the world of geologists.

Unable to pass up the lure of soft lights and beautiful music—and, oh yes, free ginger ale!—Shepard, J. C. Noll, "88" Connally and Robbie Williamson appeared without female decoration. All except the latter took advantage of the fluid situation there, and cheerfully took care of their preoccupied brothers' dates. Robbie, however, after downing five (5) drinks in his first half-hour there, spent the rest of the evening treading lightly on the floor, ceiling, and walls, serving coffee to the dancers, furniture, and floor.

Award for the costume "most likely to incite . . ." went to Etaoin Barlowe's date, Salty, (Continued on Page 4)

Who Dealt This Mess

BY CARL FOX

Many hands appear, at first glance, to depend on either a correct guess or a good split. But it is often possible to find a play which requires a little less good fortune, even though it may require a little thought.

S 754
H A543
D AJ7
C KJ5
S K 10 3 N S J962
H J 10 987 H 2
D 832 W E D 10 965
C 10 3 S C 8764
S AQ8
H KQ6
D KQ4
C AQ92

South dealer, North-South vulnerable.

The bidding went—

S	W	N	E
1C	P	1H	P
3NT	P	4C	P
4NT	P	5H	P
5NT	P	6D	P
6NT	P	P	P

The very excellent bidding by South is worthy of mention. His hand is too weak for an opening two bid, even though it does contain five honor count. But it is also far too strong for an opening One No Trump since this bid has a top limit of four plus honor count. So he compromises. Three No Trump is the perfect rebid for the hand, since it shows about five honor count with both unbid suits well stopped. North, knowing of the power in his partner's hand, cannot afford to let the bidding die. He is forced to make a slam try. A quick check, via Blackwood, shows only one King missing.

West has no problem, he opens the Heart Jack. Declarer can count but eleven tricks unless Hearts split or the Spade finesse works. There is a strong tendency

who exemplified that song "Black Lace" in a manner exposing a not-too-monotonous (even to us!) expédition of gorgeous gam. Royce's fraulein, an ME yclept Genevieve, was voted (by Royce) to have the costume least—that's all, just least. But good.

Travelers to the East numbered Goerke, whose date made the supreme sacrifice—no, no, we mean she had a final at 0800 the next morning — and Corby, whose Schimpipswitch got back all right, but couldn't quite coordinate her reflexes enough to sign in and had to have a nearby returnee perform that formality for her. She must have been very tired . . .

Pope Benedictus-et-Brandius Markoff was seen in the Shepard kitchen demonstrating his suave talent for swallowing a small glass of burning alcohol in the presence of Mr. Shepard, Sr., who was so intrigued that he offered to try it also, tried to sip it, in fact, and was said to have been burned up over the whole incident. (Editors wince in pain here.)

In accordance with the theory that our beloved Institute throws, pitches, or mauls more social functions than any other (preferably anonymous) university, Friday night also required the presence of the Evil Eye at the Blackett's Groaning Oaks Brewbrawl. Rickettsians are bitterly blaming the Southeast for an exceptionally heavy-footed orchestra, and it was significantly noted that Social Spokes Arcand and Humphrey of the ultramare probosci were not present at the rowdy affair for comment.

Upholding an outstanding record of several years' standing (not even staggering), the last three men on the Blacker crew apparently perpetuating a competition that promises to become a custom in the world of geologists.

Unable to pass up the lure of soft lights and beautiful music—and, oh yes, free ginger ale!—Shepard, J. C. Noll, "88" Connally and Robbie Williamson appeared without female decoration. All except the latter took advantage of the fluid situation there, and cheerfully took care of their preoccupied brothers' dates. Robbie, however, after downing five (5) drinks in his first half-hour there, spent the rest of the evening treading lightly on the floor, ceiling, and walls, serving coffee to the dancers, furniture, and floor.

Winning the opening Heart lead with the Queen, Declarer runs off four Club tricks. West is forced to discard twice and gives up a Diamond and a Spade. South now runs three Diamond tricks, forcing another discard by West, a Heart. The lead of a Heart to the King shows East to be out. This allows South, who has been industriously counting the hand, to complete his count on the West hand, two Spades and two Hearts left. West has shown out of Diamonds and Clubs, East is void in Hearts, and there are only two Hearts left out.

At this point, although the Hearts did not split, Declarer has made the contract without ever trying the Spade finesse. He has merely to lead to the Heart Ace and return the board's remaining small Heart, discarding his own small Spade. West is thrown in and must lead a Spade, having nothing else left, and it makes no difference who has the King, since South plays last to the trick and he holds both Ace and Queen. And sweet to South's ears are the strangling sounds made by West, who has just been forced to finesse himself!

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LIBBEY TO COX



Dick Libbey, Beaver reserveman, takes full possession of the casaba spheroid as he outjumps Archie Palma, fleet-footed Oxy guard. Bill Cox and Jay Montgomery (No. 3) are about ready to make off with the ball, as Gene Haas (No. 11) goes in to break up the play.

Oxy Defeats Engineers; Shymen Have Cold Nite Haas, Crandell and Crew Score 44-33 Win; Beavers Foul Freely

A cold Engineer team outfumed Oxy last Saturday, thus managing to lose 44-33 and get a share of last place in the SCIC.

Most of the Tigers' win margin was made at the free throw line where they made 16 out of 25, while Caltech got only 7 for 17. As a matter of fact Oxy built up its early lead largely with charity tosses, making three straight to start off the game.

Neither team showed much alertness. At first it looked like exceptional defensive play when a member of the defending team would rush in to intercept a pass, or knock the ball from someone's hands. When such plays became more frequent, it was then apparent that both teams were guilty of sloppy play on offense.

Bucket Troubles

Not only were the Engineers incapable of keeping control of the ball, but they couldn't put it through the basket when they did get a chance to shoot, making

only 17 per cent of their shots. Our rebounding was very poor, with Oxy recovering the ball a good 90 per cent of the time.

By virtue of these tactics, the Beavers dropped behind at the half, 26-12. The same style of play continued in the second half for about ten minutes. Suddenly the team came to life. Dick Libbey, especially, looked good at center picking balls off the backboard.

Tech Recovers

For five minutes the Engineers really lasted, narrowing the score to a six or seven point difference. We were making our shots and getting the rebounds. If it could have lasted, victory was in sight. But with five minutes to go in the game, the team lapsed into their earlier style of play, Oxy spurred ahead, and then the game was lost.

Statistics:

	Pos.	Caltech 33
44 Occidental	F	Gray
13 Haas	F	Patapoff 6
14 Palma	F	Patapoff
7 Tunney	C	Butler 13
10 Reynolds	G	Montgomery 5
5 Crandall	G	Cox 4
Scoring subs—Caltech: Libbey 2, Sereno 3. Half-time: Occidental 26, Caltech 12.		

At A Glance

Basketball—Oxy, 44; Caltech, 33. Oxy Frosh, 45; Caltech Frosh, 35.

Bowling—Caltech, 446; Woodbury, 2227.

Interhouse Softball—Fleming, 7; Dabney, 6.

Dabney, 3; Blacker, 0.

Fleming, 8; Ricketts, 4.

Throop, 9; Blacker, 6.

PASADENA BOWLING COURTS

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Revengeful Tech Downs Woodbury

Tech bowlers tasted sweet revenge this Sunday as they trounced Woodbury College by 219 pins in a return match at the Pan-Pacific Bowling Lanes. Tech won all games easily, totaling 2446, or an average of 163 per man. The same Woodbury outfit that piled up a record collegiate total of 2722 last week got their digits crossed and could manage no better than 2227 this time, a 148 average.

Good Games

The Engineers fielded a well-balanced quintet with no poor scores, topped by a 562 series by Woody Bratnaber. High mark for the Warriors was John Joplin's 497.

Official scores:

CALTECH	Andy Check	145-172-167	484
Woodbury	Ralph Stone	132-154-193	479
	Duane Neverman	156-148-142	446
	Sid Stone	156-161-158	475
	Woody Bratnaber	199-169-194	562

TOTALS

788-804-854—2446

WOODBURY COLLEGE	Jim Gibbon	167-145-132	444
	Frank Genus	144-139-148	411
	Howie Overmier	157-174-137	468
	Al Crawford	161-158-160	407
	John Joplin	151-167-179	497

TOTALS

728-763-736—2227

The next match on Tech's schedule is against Pasadena City College (Friday, Feb. 3) tomorrow at 4 p.m. at the Courts. February 12 is the starting date for regular competition in the newly formed Intercollegiate Traveling League.

Check Bowls Near-Record Game

Throop Club bowlers gained three points on league-leading Ricketts Monday at the Courts, to keep in the running for the Goldsworthy Trophy, with the finish line only two weeks off. Throop made it a clean sweep by winning all eight of this week's games, while the Rowdies took five, and Fleming three.

Current standings:

House	Won	Lost	Pct.	Ave.
House	68	28	.708	148
Throop	63	33	.656	145
Dabney	42	54	.438	126
Fleming	28	52	.350	130
Blacker	23	57	.288	129

Andy Check of Ricketts blazed a trail of glory in his first game with six straight strikes and a tremendous 231 tally, second-best of the season. Sid Stone (R), captured honors with his big 192-165-184 games for a 541 total. Check was second with 511, followed by Duane Neverman (T), 471; and Carl Fox (R), 466.

thrown about 132 feet so far while Miller, Lewis and Woody are close behind with about 127 feet. Principal competition comes from Locher of Oxy who won the conference meet with 133 feet 1 inch and Emmet and Cob of Pomona. Edge to Caltech.

Javelin—

John Nobles, Sam Middlebrook and Harold Woody (versatile isn't he?) are all after the conference mark of 196 feet 10 in. Nobles seems to be leading so far with about 158 foot throws. There's really competition from Reid of Whittier, who took the conference meet with 173 feet

1 1/4 inches last year and John McColl, Pomona's three time all SCIC football star, who has thrown 172 feet 7 inches in conference competition and 187 feet in other play. Probably lose ground here, however, in view of the really stiff competition.

Gad!

Son: "Pop I got in trouble at school today and it's your fault."

Pop: "How's that son?"

Son: "Remember I asked you how much a billion dollars was?"

Pop: "Yes, I remember."

Son: "Well, a helluva lot isn't the right answer."

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Sy. 2-7151 RY. 1-6066

Open Evenings

Beaver Sports

Hardwooders Travel For Practice Tilts

Tired Techmen Take On Pasadena College Friday; L.A. State Tuesday

Although idle in conference competition this next week, Beavers take on practice games with Pasadena College and Los Angeles State. Both contests will be "seconds" and will probably lead to settling of old accounts on both sides.

Friday Night

Pasadena College will be the scene of tomorrow night's encounter with Shy's crew out to even the 48-47 defeat of December 5 last. We will remember that the Pasadena College team is the one that took second in the Redlands Tournament, thereby promising us an interesting evening in al respects.

Of statistical interest, we recall that Pasadena College is a squad working on a strictly team basis. No man on their lineup scored more than 9 points. Thorne Butler hooked his way to twenty-two points in that game while Ted Bowen was putting away 12.

LA State

Next Tuesday, February 9, Caltech journeys to the LACC

SCIC Basketball Standings

Redlands	3	0	1.000
Pomona	3	1	.750
Whittier	1	2	.667
Caltech	1	3	.250
Oxy	1	3	.250

gym to meet the LA State quintet. Whipping the uptown boys 45-41 in the game of November 29, local pumpkin pushers are apt to have a hard time duplicating the feat. Highly significant of the last contest was the enormous 29 fouls compiled by Beavers and 22 by LA State. The Monk scored high digits in the game, closely followed by Patapoff and Bowen.

Remember: the Caltech-Pasadena College game at 8:15, Friday, February 3, at their gym (1539 E. Howard, Pasadena) with a Caltech-Pasadena reserve preliminary at 7 P.M. The Caltech-LA State game at 4:30, Tuesday, February 7, at LACC gym.

Lambkins Start Net Competition

The tennis team, under the combined efforts of Coach Johnny Lamb and his assistant, Paul Waterhouse, is shaping up very well. Some very good tennis has been played already this year on the Athenaeum courts, and there are still five weeks before our first match.

Ladder Set Up

The ladder has at last been set up so that challenge matches can be played, thus getting players used to playing under match conditions. Sid Stone still occupies the number one spot, followed by Jack Martin, Jack Pointdexter, and Dean Blanchard. Positions five and six are at the moment occupied by Roger Baier and Ed Welch, but these positions are being hotly contested by Berk Welch, Don Schmid and Jim La Fleur. It looks as though four returning lettermen and considerable new talent might again give Tech a championship team.

JOHN'S BICYCLE SHOP

SINCE 1909

- BICYCLES
- TENNIS
- BADMINTON

VISITING PROF

(Continued from Page 1) the easy friendship among the class members and their willingness to sit around and talk about the work instead of letting the instructor stand up and monopolize everything.

MIT Humanities

When questioned about humanities at the structure on the banks of the River Charles, he stated that about 17% of MIT's curriculum is composed of humanities. This amounts to one course per term. As at CIT, MIT realizes the need for humanities in the development of an engineer.

In spite of a horde of about 3600 undergrads, MIT keeps her classes averaging under 20.

Prof. Morison seemed to think our student house system has "wonderful facilities" compared to their dormitories at MIT.

Not Personal

Because of her size MIT doesn't have the personal contact and closeness we do at CIT. They don't have the equivalent of the Athenaeum on campus in which to hold banquets and dinners, etc. There is no restaurant on campus. More of the students are strangers to each other. To offset the disadvantages of size, MIT has a wider variety of courses to offer, things to do, and people to talk to.

"Teddy's" Letters

Prof. Morison was very much impressed with our Huntington Library and likened it to humanities as a research lab is to Engineering. At present he is doing research on letters of T. Roosevelt. This research is taking him through some 200,000 letters written by T.R. The first two volumes of ten will be coming out this September.

As a parting thought, Prof. Morison said that the advantages of studying at MIT or CIT are that the people here come in direct contact with stimulating intellectual activity. There is a constant current of ideas, prominent scientists and research activity. Anyone able to study at either place is very lucky.

Egad!

Three old men were discussing the ideal way of dying. The first aged 75, said he'd like to crash in a car going 80 mph.

The second, 85, said he'd take his finish in a 400-mph plane.

"I've got a better idea," said the third, aged 95; "I'd like to be shot by a jealous husband."

Classified Ads

FOR SALE—"The Thing," '33 Chrysler with Le Baron custom phaeton body and Cadillac V-16 engine. \$500.00. See Don Royce, room 15, Dabney House, or call Sy. 3-9814.

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ASSEMBLY STARS

(Continued from Page 1)

Prizes

As a result of his services and accomplishments, Dr. Bacher received the Presidential Merit in 1946, and in 1947 he was elected to membership in the National Academy of Sciences.

At the end of the war, Dr. Bacher returned to Cornell as Director of the Laboratory of Nuclear Studies, but in 1946 he left again to join the Atomic Energy Commission.

Dr. Bacher first came to Tech in 1930 as National Research Council Fellow, after receiving his Ph.D. from the University of Michigan. Now he's back for a longer stay.

Both of these men are real prizes as far as the Institute is concerned. Many another school in the country would have liked to get them. But they are here now, and this Friday at 11:00 is a good time to hear them speak and learn something about their ideas on out-of-the-classroom subjects.

Y FINANCE DRIVE

(Continued from Page 1)

Assisting Joe Cain in the drive will be Dwight Schroeder in charge of grad students, Dick Buck in charge of the off-campus undergraduates, Peter Knoepfle, the students in the houses, and John Flynn taking care of the Institute personnel. Dick Libbey is working in an administrative capacity and Vern Edwards is seeing to it that the drive gets proper publicity.

Caltech Fellowship Schedules Meeting

Jesus Christ claimed to be the light of the world. The Caltech Christian Fellowship will discuss John, Chapter 9, in which He spoke about spiritual light.

All are invited to the discussions on Tuesday and Thursday from 12:30 to 12:55 in 251 W. Bridge.

Newman Club Exchange Dance

The Newman Club Exchange Dance will be held Friday, February 3, at 8:30 p.m. in Throop Club. Ray Brow and his Trio will provide live music for the occasion, replete with sixty (60) girls from Immaculate Heart College, and last but not least—refreshments. All this for only twenty-five cents (25c).

CONGER PRIZE

(Continued from Page 1)

graduates of the Institute and who have not won prizes in previous Conger Contests.

2. Each entrant to qualify for participation must prepare and submit in advance an essay which will require not more than seven minutes for delivery, which will treat either world peace or industrial peace.

3. All contestants appearing in the contest before the student body will have their essays completely memorized and must deliver them

CAMPUS BREWINS

(Continued from Page 2)

Hence a pseudo-Wilmore was contrived in the person of Barney Engholm. Some misgivings were expressed over having two Wilmores present, but diligent efforts kept them apart until late in the evening when Barney, no doubt made repentant by drink, revealed the whole hideous secret (including his maiden name) to her. Nonetheless, he was seen (or assumed when not seen) to be making very fast progress.

Kudos to Karasawa for bewildering the Beak: Saturday night he broke a date with his woman so he could sack out—and he DID sack out! Next day she called him up to bring him cookies as a peace offering. Es ist confusin' bin.

Early in the evening the casual if unorthodox sight of stags Kamei, Bowerman, Krause and Jacobs sitting on the dance floor and shuffling cards to each other seemed to bother no one in particular; indicative, we are sure, of the great sophistication of Techmen in unusual situations.

New Frosh Vice, Stefanides, appeared with a blind but affec-

tionate date, who, for all her advances, couldn't make out at all with football hero Stef. Playing hard to get? Other noted events included the morning-after indelible red smear about Soule's mouth, which no amount of scrubbing would get off—someone's out to label her man—and the mad plunge of bartender Blodgett's fist through the glass door while chasing Jacobs, who had had the foresight to close the door in Blodgett's face.

D. Peck, on the rebound from

the loss of his last conquest to Rowdy Moss—who paraded her to the Barnwarming—has been snowing a UCLA wench at a Helen Mathewson Club snow party and claims he has enough snow left to take her to the Phlegm shneefest this weekend. Overheard Saturday night and noted as a strange flattery was the remark of Rogers' date that she doesn't like the men she goes out with! R. had no immediate answer . . .

Monday night, true to this column's prediction, Fleming came through with their reparations payment to Dab's proxy. The incident involved their whole Flush class, songs, and marching about in the Darb dining room. The occasion almost passed off peacefully but somehow, as the fledgling Lemmings were passing out, a fracas developed and the dining room was soon filled with hurtling food, milk, crockery, and Frosh. This inevitably grew into large-scale amphibious operations ending with the Reds resorting to psychological warfare, to wit, playing the record, "I've Got a Lovely Bunch of Cocoanuts" at considerable decibels out over Dabney court. The Darbs stood it as long as humanly possible and then, alleging that Fleming was broadcasting what was, for Fleming, a half-truth, heaved an orange through the offending window and proceeded to fill the room with water.

The following other observations on social life over the weekend are censored:

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Helena Carter

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*By Recent National Survey