

Coffeehouse in Black With Institute Help

One of the greatest economic miracles in Caltech history took place recently when the four managers of the ASCIT Coffeehouse submitted their financial report for first term; for the first time ever, the enterprise realized a net profit.

The report states a \$0.60 per night profit, not counting the transactions made at football games, the ASCIT Rock Concert, or the like. This figure is phenomenal compared to a \$5.18 loss per night for third term last year. Actually, however, expenditures topped sales by \$125.95. This was because \$337.66 in inventory (enough supplies for the rest of the year) was purchased and stored during the term.

The figures, however, are deceiving. Although the Coffeehouse is doing better than ever before, credit for this achievement is due only to the efficiency of the managers and the generosity of the Institute. This year the Institute absorbed the cost of electricity, gas, and water at the Coffeehouse. At the same time, the managers were provided with free housing facilities in the second floor of the Coffeehouse. These advantages, coupled with a 25% increase in profit over last year's figures, are what really made the difference.

The critical problem right now is lack of interest in the Coffeehouse. In the words of the report: "Student interest in the Coffeehouse is at a new low. Business per night is only three-fifths of what it was last year, and less than half what it was upon opening two years ago, when the losses were the largest they have ever been. In short, financial manipulation by the managers and sacrifices from the Institute have enabled a tenuous balance to be struck in the Coffeehouse finances, with declining student interest."

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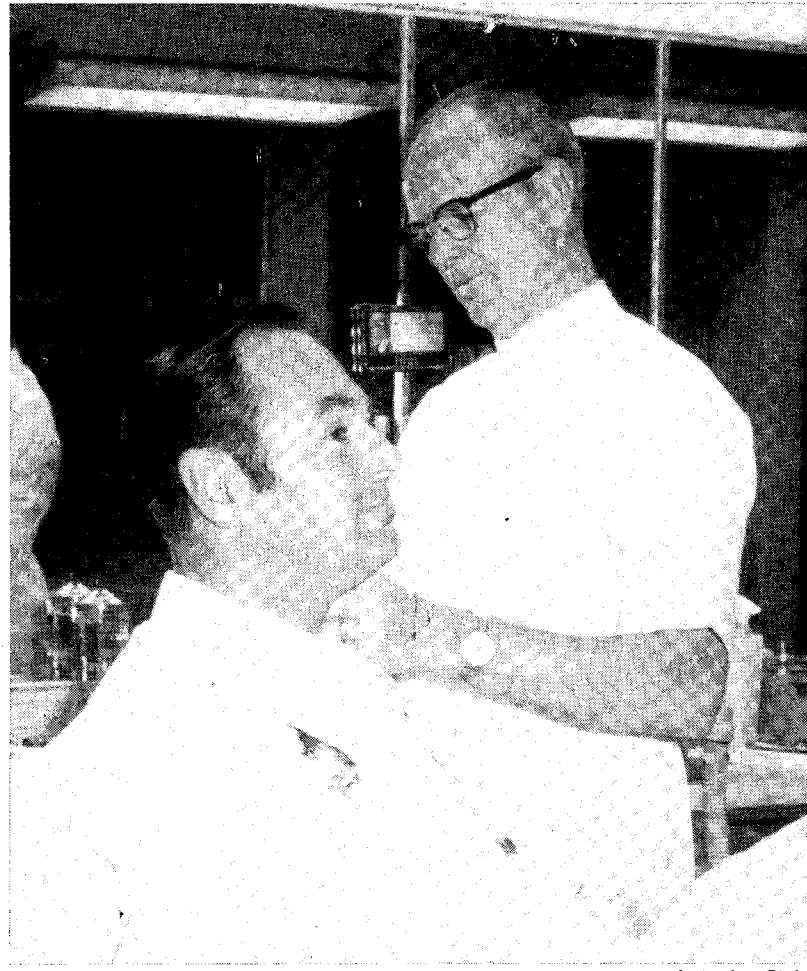
Cheerleaders of Anarchy

ASCIT Brings Mimers

Sponsored by ASCIT, the San Francisco Mime Troupe will perform its new commedia dell'arte satire, "The Farce of Patelin," Sunday, January 19, 2:00 p.m. on the Athaeum Lawn. Tickets, \$1.00, are on sale at the Beckman ticket office and in the Houses. The play is adapted from a 15th century French farce (anonymous) and was directed by Sandra Archer.

Brilliant

Patelin tells the story of two schemers, each of whom, in trying to cheat the other, gets caught in his own web, and a simpleton who turns out to be the master schemer. One schemer has a cunning wife behind him, and a dimwitted judge neither sheds light nor dispenses justice. The play depicts the world of man as ruled by jungle law, and the characters' resemblance to various animals, in the present production, is not accidental.



Dr. Huttenback, new Dean of Students presides in the throne room of his new office. Note Royal Groom in attendance.

Threepenny Opera Picked; Tryouts to Start Tuesday

by Tom Markert

Caltech's production of *The Threepenny Opera* is progressing rapidly. The ASCIT Board of Directors has budgeted 700 dollars to produce the play, the PCC Drama Department has agreed to supply the necessary actresses, and the production staff has been chosen and at work for more than a month. Initial casting of the ASCIT Musical will begin next week followed soon by rehearsals. The performances will take place on May 23 and 24 in Beckman Auditorium. Next week's tryouts, for male roles only, will be open ex-

clusively to Caltech students. There is a challenging list of major parts as well as a number of small but important roles to be filled.

The tryouts will be conducted by Leonidas Guibas (Ru) and Bob Lewis (Fl), co-directors of the musical; Glenn Prestwich (L1) and Dan Nemzer (B1), vocal directors; and Dr. William Cozart, faculty adviser to *The Threepenny Opera*. Tryouts for acting and singing will be held at 4:00 p.m. and after dinner on January 21, 22, and 24 in Culbertson Hall and on January 23 at 4 p.m. in Culbertson and at 7:30 p.m. in Winnett Clubroom 1.

Time Creeps In

Although the play is set in England in the 1830's, before and during the coronation of Queen Victoria, the characters in Brecht's satiric masterpiece are virtually timeless. The men of the musical are thieves and beggars, totally disreputable people whose cynical view of the world is an indictment of our society and whose way of life is a bitter parody of our ideals. The "hero," Macheath (Mac: the Knife), is a suave, tough adventurer, the most successful bandit of the London streets and the most enthusiastic supporter of the London brothels. He is both smooth and cruel, an ardent lover and a talented murderer. Another significant character is Jonathon Jeremiah Peachum, the enterprising organizer of the London beggars. While a man as fond of money as Macheath, Peachum appears to be fond of little else. He is heartless enough to turn in his own son-in-law for a suitable reward, and does so when Macheath marries his daughter. Finally, Macheath's

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Migrant Workers

Commedia (traditional Italian popular comedy) was the theater of migrant bands of players in the Renaissance. Its comic

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Academic Change

R.A. Becomes Dean

A student revolution is sweeping the country! Surprise? The public, however, misapprehends the nature of the revolt and overly reacts to publicized violence. The revolution is a good thing. Students are refusing to accept dogmatic policies; they want education to be more relevant to life's problems — This is how Dr. Robert A. Huttenback, who will become Dean of Students next September, views the academic climate.

Huttenback decries people who ignore students' proposals. All over the country student conceived programs are proving youth's competence. "Students demand to be involved in their own education," Huttenback says. He feels the Caltech community should join more in this revolution. Not enough students

here are interested in this new direction of education. He cites the Research Project as an excellent example of student dissatisfaction. "Students today are unwilling to postpone (academic) gratification," he believes.

Open Suggestion Box

How does a dean of students fit into this academic trend? Huttenback thinks that he should be a kind of receptacle for student requests. The administration should be sympathetic to such proposals. A dean shouldn't be a guy to talk to just when a student gets a blue-slip, or acts improperly, or has some other specific problem — he should be someone to come to with gripes (and not just complaints about the food service).

Huttenback would like to be an advocate of the students, a person able to implement their ideas. But he wants more ideas from students, because as Master of Student Houses he has often been the originator of changes. Observing that the Dean's office is rather remote from student quarters, he feels discussion may be improved by olive-walk talks.

He would like to destroy the authoritarian myth, and emphasize that a dean is an agitator for change, not just a person enforcing an already existent policy (although that is part of the job). He is opposed to physical violence, but this does not eliminate drastic change through verbal confrontation.

The Human Scientist

Huttenback wants more involvement in informal education at Caltech, a greater discussion of the human arts and interpersonal communication. He proposes a greater integration of undergraduate and graduate student bodies.

Huttenback was chosen for his new post on the recommendation of a special faculty committee (which consulted somewhat with students). Another (the same?) committee is still busy finding his successor.

Dr. Paul Eaton, whom Huttenback will replace, plans on taking a six-month leave of absence

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"Know Thyself" Theme of YMCA Psych Program

"A JOURNEY INTO SELF/AN ENCOUNTER WITH OTHERS" is the way the Caltech YMCA is billing a series of programs beginning this term. They offer the opportunity for a variety of experiences in seeing oneself, in trying new kinds of behavior, and in communicating more intensely with others. Leadership is the finest, drawn from such pioneering institutions as Esalen, Kairos, and Western Behavioral Sciences Institute.

The first of the seven programs is *Journey Into Self* (Jan. 28), with Bill McGaw from W.B.S.I. It is in part a microlab, moving towards the same levels of sharing and intimacy sometimes arising in longer encounters, also using fantasy, physical contact, and audio-visual stimulus.

The second is *The Creative Human Encounter* (Feb. 11), with Pat Rice from The Center for the Study of the Person at La Jolla. It includes discussion and an excellent film as well as

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By George!

The Shaw Must Go On

NEW YORK — The original production of the London-Broadway stage comedy hit "By George," starring the distinguished British actor Max Adrian as George Bernard Shaw, will be presented by TRW Inc., the evening of January 21, at Beckman Auditorium.

Part of a new experiment in business-education relations, the TRW-sponsored production of "By George" is appearing at 40 of the nation's leading colleges.

Give My Regards

Offered to selected colleges on a no-charge basis, TRW's cross-country tour of the one-character comedy on the life of the famed Irish playwright-critic began October 28 at Massachusetts Insti-

tute of Technology and ends January 25 in Seattle at the University of Washington.

The "By George" tour is believed to be the first time a business firm has sponsored an original cast Broadway play on college campuses.

Sponsorship of the play by TRW has been described as a "new approach in educational relations" by Dr. Simon Ramo, TRW's vice chairman and well-known scientist-educator-industrialist.

To Ramo

Produced in association with the New York City-based theatrical production firm of Arthur Cantor and Nicholas Vanoff, "By

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Editorial

Student Cards? What Student Cards?

If all has gone well, Gentle Reader, you will have received your student body card by now. Maybe. The ASCIT cards are only two weeks late this term, which is a vast improvement over last term. But couldn't we do just a little better? Especially when the Institute is making them more important than ever before.

If you are stopped by one of the campus police, it is expected that you can produce identification proving that you are a student. You may be required to produce similar identification in the library. Many of the local stores will give you discounts on purchases, but only if you can prove that you are a student. Finally, most of the sporting events held require some sort of student identification (unless you like paying for tickets). All these situations require that you have a student body card. So why don't we have them when we need them?

Presently, the student body cards are printed up once each term (hopefully for the next term, but not always). There is no reason why they cannot be printed for all three terms at one time. The plates exist; all that is changed is the date and, once a year, the name of the ASCIT president. There is no reason why the cards cannot be printed up as soon as the new president is elected, and then distributed at registration. Perhaps, when you hand your white card and money to the cashier in Dabney Lounge, she could hand you a student body card. It would be far easier than distributing them to each house, and having to provide a central location where off campus members can pick up their cards.

An alternate suggestion is that some sort of photo-printed card be used with the student's picture on it. This would cost more but would be a great help to the security forces here. Such identification could prove to be very useful. The speed at which the freshmen are processed and photographed when they arrive shows that such a scheme is not only feasible, but highly efficient.

None of these alternatives have yet been introduced, and there is a final consideration. Why should ASCIT pay for these cards in the first place? At the present time, the Institute is making far more use of the cards than ASCIT. For this reason, we are not reprimanding the Rep at Large for the inefficiencies in card distribution. We don't feel that it should be his job at all! Now that the cards have become so important to the security of the Institute, there is no reason why the Institute should not pay for them.

Alan Stein
Dave Lewin

Dollar Diplomacy

Once again it is the season for seniors and grad students to be seduced by industry. Recruiters are arriving on campus in droves to hire June grads, and to take on some summer help. Representatives come from all industries, government, and even universities. Some of the more noted organizations are the CIA, the FBI, and Dow Chemical. The first and last of these are often the target of demonstrations because of their connections with the more unsavory aspects of American foreign policy. Their presence on college campuses is anathema to a segment of faculty and students.

While we deplore the use of napalm, and the activities of the CIA, we do not believe there is a simple matter of "morality" in whether or not they are allowed to interview on campus. The defenders of the interviewers pose it a "right to recruit", an aspect of free speech, and the opposition attacks this alleged right on moral grounds.

We feel that recruitment is a service of the university to industry and government, not a right per se. If the students decided that recruiting was objectionable, then it should be abolished, banished from the campus. But when feelings have risen to that stage, lack of usage of placement services would have already indicated dissatisfaction to the school, and to the potential employers. Recruitment can be part of free speech if the recruiters are available to discuss, in public forum, with individuals who disapprove of the actions of their organizations. If the representatives of these groups, particularly Dow and the CIA, are unwilling to engage in free debate, then a protest of their presence is legitimate.

David Lewin
Alan Stein

Huttenback

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beginning July first. He will return to his home in Maine. Coming back next January, he will be a full-time English pro-

fessor.

Huttenback is certainly in contact with prevalent student attitudes. He remarks, "students should constantly reassess their environment;" "they should not just accept (things) because they are told to." Caltech students can be grateful to have him around.

Athenaeum Lawn Is French Farce

(Continued from page 1)

action, traditional plots, and set of stock characters (the old merchant, the pedant, the braggart captain, the young lovers, the clever and stupid servants) influenced the Elizabethan stage, the classical French comedy (notably Moliere), comic opera, and according to some observers, movies and television. The Mime Troupes attempts to revive the original style but with its own interpretation and is own sour-

ces of energy. "Our interest in this form is not antiquarian," says Davis. "We use it because it is popular, free, engaging, and adaptable." Traditional media was largely improvised (each actor having an abundance of learned "bits" and dialogue to draw on); the Mime Troupe preserves this characteristic, more or less, according to the skill and experience of the actor: "We start with a full script, but everything is open to improvisa-

tion," Davis says. "A good Mime Troupe actor can make a dog barking offstage part of the show."

In Sunday's performance sponsored by ASCIT and the CIT Alumni Association **Patelin** will be preceded by three "puppet shows for grownups." The Troupe has recently begun using puppets, seeing them as "a form of theater grotesque enough to match our realities."

Busted

The Troupe, which has been performing comedias in San Francisco parks since 1962, won an Obie (off-Broadway) award last season.

Their preoccupations have earned for the Troupe labels like "cheerleaders of anarchy" and "bludgeon-wielding propagandists." Their answer is that "art which does not speak to vital concerns is soulless; it is not worth seeing if it has nothing to say." The commitment to deal with issues, shared by the other theaters mentioned above, may be seen as part of the general revolt against detachment taking place in the art world and in the universities today; the radical theaters have taken this revolt farther than most of the dissenting artists and academicians, by breaking with the institutions they protest against.

Black Coffee

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Mike Stefanko, one of the four managers of the Coffeehouse, pointed out that lack of interest existed on the administrative level, too. Of over one hundred meetings of clubs and other activities per month held here at Caltech, only the meetings of the **Totem** staff are held at the Coffeehouse. Stefanko emphasized that increased use of the Coffeehouse as a meeting place could mean lowered menu costs, better service, and an enhanced social atmosphere.

To improve student interest this term, the managers are about to launch this year's Membership Mug Drive. Cost of the mugs will be \$5.00 for students and staff and \$10.00 for faculty. The managers are also considering providing other additional benefits to members only.

As far as other activities at the Coffeehouse are concerned, the policy of the managers is that all they can do is provide the atmosphere and wait for the interest. Interest never came for the hootenannies, so they had to be cancelled. Although magazines and guitars are available at all times at the Coffeehouse, few customers utilize them.

In summary, the managers registered this general comment: "While its financial situation is at least stable, the Coffeehouse's general (in a word, social) situation is still weak. Our clientele is small, consisting in great part of a few 'regulars,' our operation, aside perhaps from the general question of our continued solvency, is of little general interest, our menu is frequently scorned, and criticisms are infinitely easier to come by than help. We still maintain that our menu items are of reasonable good quality at generally reasonable prices; better buys are not easy to find. We are trying to diversify the menu. What more can we do? This is your Coffeehouse, not ours. A little interest goes a long way."



It's all in your mime at the San Francisco Troupe performance.

California Tech

Published weekly during the school year except during holidays and exams by the Associated Students of the California Institute of Technology. The opinions contained herein are solely those of the newspaper staff.

Editors: Dave Lewin, Alan Stein, Jim Cooper, Editors-in-Chief; Craig Sarazin, Managing; Ira Moskatel, Copy; Dave Dixon, Sports.

Staff: Roger Goodman, Tom Carroll, Charles Creasy, Mark Boule, Joanie Weber, Jim Blasi, David Linker, Bob Dullien, Larry Westerman, Bob Nnstein, Mike Farber, Bob Geller, Carroll Boswell, Berto Kaufman, Ed Schroeder, Mike Stefanko, Martin Smith, Ed Hutchings, J. Random Falk R., Nick Smith, Marc Aaronson, John Healy, Kevin Savage, Con E. Staisey, D. C. Agnew.

Photographers: Stephen Dashiell, John Bean, Paul Levin, S. I. Hayakawa.

Business: Jeff Hecht, Manager; Art Selly, Circulation Manager. Bob Curtis, Pat Silverthorne.

California Tech, Publication Offices: 1201 E. California Blvd., Pasadena, California, 91109. Second-class postage paid at Pasadena, California. Represented nationally by National Educational Advertising Services, Inc. Subscriptions: \$1.50 per term, \$4.00 per year. Life subscription: \$100.00. Printed by Bickley Printing Co., 25 South Fair Oaks Ave., Pasadena, Calif. Volume LXX, Number 13, Thursday, January 16, 1969.



Shaw, By Golly

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George" stars Max Adrian in the much-acclaimed role of George Bernard Shaw he created in 1966 at the Edinburgh Festival and later performed on London and Broadway stages.

TRW's vice chairman explained that the company has for some time been looking for new and innovative ways of communicating with campus communities.

Quite Frankly

"This college tour, quite frankly, is an experiment in educational relations," Dr. Ramo said. "Industry, including TRW, has traditionally supported higher education through direct means such as contributions, research grants, scholarships and lectureships. But no company, to our knowledge, has ever sponsored an original cast Broadway play on such a tour."

"Hopefully, we will help dramatize to students and faculty alike that a modern corporation like TRW is interested in, and concerned with, the cultural aspects of the society in which we live," Dr. Ramo said.

"A second objective is to help broaden student appreciation of the arts, which is such a vital part of the educational process. This broadening process, we believe, can equip the student with a greater potential for making contributions to industry if he decides on a business career," Dr. Ramo added.

Towering Earful

by Dave Dixon

Together, the Watts 103rd Street Rhythm Band, Reprise Records, about \$3.00

The Watts 103rd Street Rhythm Band comes on nice and loose in their second album **Together**. It was recorded live at the Haunted House in Hollywood and is set up as a live album in format although it sounds like a studio album in its recording quality.

Together is a great dance album done by a very competent soul band. The band originated as Bill Cosby's back-up group and is very complete, with no super-stars.

"Sorry Charlie" gives the record a good start with its slow bluesy beat with lots of horns. The record continues at the same level of quality for its entirety.

The disc has a varied composition. There are old soul favorites such as "Something You Got" and "Papa's Got a Brand New Bag." These are done well as is their soul version of the Stones' "Satisfaction." "Phunky Bill" has a good saxophone solo on it by Bill Cannon, while "Get Ready" has a good trumpet solo. There are also two nice beating slow songs. "My Summer's Gone" and "I Wake Up Crying."

My two favorites are the two instrumentals "65 Bars and a Taste of Soul" and "Giggin Down 103rd." The record ends with "Do Your Thing" which is what the band does and it does it well.

The Pentangle, Reprise records, about \$3.50.

The Pentangle is a new English super-group. However, it is not a true rock group. It is essentially a combination of folk, jazz, and rock and roll in a very pleasant mixture.

Burt Jansch and John Renbourn are the two lead guitarists. Both play excellent acoustic leads. It is their work along with the voice of Jacqui McShee that makes the album interesting. The guitar work on The Pen-

tangle, their first album, is Oriental-like and the breaks move well. Their major drawback is that the guitar solos occasionally sound repetitive.

Jacqui McShee has a folk voice on the Judy Collins-Joni Mitchell line. However she has more range than Miss Collins and her voice swoops through songs. She can also sing the blues and this is seen on "Way Beyond the Sun" which is the fastest cut on the album.

Whose Rosemary?

The album begins with "Let No Man Steal Your Thyme" which serves as an introduction to the group, especially Jacqui McShee. "Bells," the second cut has the best guitar solos on the album and along with "Way Behind the Sun" are my favorite songs. Burt Jansch's guitar work is especially evident here. The drum solo is good but is definitely not great. It detracts from the rest of the song.

"Hear My Call" and "Mirage" are the two other songs in which Jacqui is the dominating factor. "Pentangling" is a showcase for the guitars again and also for Danny Thompson, who plays a surprisingly good string bass. This song is a club jazz song.

The album ends with "Bruton Town" done in an old English ballad style and "Waltz," an extremely creative instrumental. "Waltz" has a fantastic piece of acoustic guitar lead which is like some of the sounds produced by the Pink Floyd and The Who. The album ends with an experiment and this is perhaps the best definition of the album. It is experimental fusion that comes off.

The Book of Taliesyn, by The Deep Purple, Tetragrammaton, about \$3.00.

The Deep Purple is a mediocre teeny-bopper group. Their second album, The Book of Taliesyn, shows this to their fullest extent. It is a boring album in their selection of songs and in their musical talents.

(Continued on page 5)

"Fourth?"

by Robert Geller

North
S K 8 2
H Q 8 5 3
D 9 6 5 3
C 8 5

West East
S A J 10 9 6 3 S 4
H --- H J 10 4
D 10 8 4 D K J 7 2
C A J 6 3 C Q 10 9 4 2

South
S Q 7 5
H A K 9 7 6 2
D A Q
C K 7

East-West vulnerable
The Bidding:

South West North East
1H 1S 2H P
4H P P P

West led the ten of diamonds

Experts find it demeaning and unimaginative to take a finesse. They find it more elegant, and vastly more profitable, to force their opponents to finesse themselves. Today's hand illustrates this theme. The bidding of this hand reflected over-optimism by both North and South. North's free raise to two hearts is questionable, since the bidding could hardly be expected to die out at one spade. South's call of four

hearts is even more questionable, since his hand should be devalued because of the tenaces in front of the overcaller. South's four heart call closed the auction, since East-West had no opportunity to find their laydown five club contract.

West's opening lead was the ten of diamonds, a rather poor choice, since the contract is set two on the lead of ace and another spade. The spade lead should be found, since spade ruffs seem to be the only chance to set the contract. However, South won the opening diamond lead and cashed the ace of hearts, discovering the bad split. South then cashed a second high heart and the act of diamonds, and led to the queen of hearts, drawing the last trump. A third diamond was then ruffed and low spade led to the king, West correctly playing low since the play of the ace loses immediately. The fourth diamond was then ruffed in the closed hand, completing the strip, and the queen of spades was led.

West could cash two spades, but was forced to give the game-going trick to South, either by

(Continued on page 4)

Notices

COLEMAN BRINGS JULLIARD QUARTET

On Sunday afternoon, January 26, at 3:30 p.m. the Coleman Chamber Concerts, co-sponsored by Caltech, will present the famed Julliard Quartet, assisted by Evelyn Mandac, soprano. The performance will be in Beckman Auditorium.

THE ETAOIN SHRDLU AWARD

Goes to the **Nutley Sun** and the copyreaders of the **Star-News** of Pasadena.

SEX AND SENSATION—HAPPINESS?

Christian Science Organization, 7:30 p.m., Thurs., Winnett Clubroom 2.

POWER!!

Anyone interested in participating in this year's political-military exercise should sign up in his House tonight.

ASCIT MUSICAL

Any student interested in singing or acting part in **The Three-penny Opera** can try out next week. Auditions will be held at 4:00 and 7:30 on Jan. 21, 22, and 24 in Culbertson Hall and on Jan. 23 at 4 p.m. in Culbertson and at 7:30 in Winnett Clubrm. 1. See Larry Shirley in Ruddock.

SKI CLUB MEMBERS

There will be a meeting of the Ski Club tonight, Thursday, Jan. 16, 1969, to plan trips for this term.

Eternal Questions at Y

(Continued from page 1)

active participation to develop the reality of meeting another person in a meaningful way.

Bill McGaw will again be our host for **An Evening of Psycho-drama** (Feb. 25). "Doing" is emphasized as the primary mode of learning; participants act out situations without the normal restraints — and perhaps become freer to distinguish self-defeating behavior from constructive behavior in themselves.

Story Telling and the Discovery of Identity (Mar. 4), with Sam Keen, is the fourth program. Living vividly and feeling an identity involves owning one's past and choosing one's own future, feeling a persistent sense of self-sameness. This program aims at that goal through story telling and hearing — fantasies, time and space exploration, intensity telling and hearing, focused wishing.

Sam's wife Heather, from Kiaros Institute, will be with us for **Self Awareness and Communication through Movement**. (April 1) It includes nonverbal communication, touch, and exercises to widen our range of expressive movements and develop sensitivity to other's movements. Robert Gerard, a practicing

psychotherapist will direct us in **Meditation Techniques and Depth Imagery** (April 22) the basic practice of meditative techniques, including phases of concentration, reflective and receptive meditation, visualization, radiation.

In **Fantasy and Dream Interpretation** (May 6), Bill McGaw will help us to explore dreams and fantasies and exemplify them as tools for developing personal creativity, imagination, and self-awareness.

The final program on **Getting High Without Drugs** (May 13), under the leadership of Tony Rose, research psychologist at W.B.S.I., will explore some unusual and exciting ways of "taking a trip" without drugs.

Attendance will be limited to 130 persons — Caltech students, 50 coeds from other schools, and 30 non-students. Season memberships must be purchased in advance at the Caltech Y office — \$5 for students and \$10 for others. Since enrollment is limited, membership in the series will be sold on a first-come, first-served basis.

Each event is scheduled for Tuesday evening at 7:30 p.m. in Dabney Hall of the Humanities, Caltech, Pasadena.

Brochures containing more detailed information and application blanks will be sent out in about a week but you may sign up now by notifying the Caltech YMCA, Winnett Center, Caltech, Pasadena 91109.

CLASSIFIED

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Translators in all languages, including African, needed to translate highly technical and scientific material in several fields. Work may be done at home in free time. Only individuals with scientific training considered. Send Resume to: SCITRAN, Suite 120, El Paseo, Santa Barbara, California, 93101.

NOTICES

GRADUATE STUDY AND RESEARCH IN THE FIELD OF MATERIALS: Graduate research assistantships available for chemists, engineers, physicists, and earth scientists in outstanding materials research group specializing in non-metallic materials. Stipend - \$2880/12 months (normal, half time) plus dependency allowance and remission of all tuition and fees. Some fellowships also available. For information and applications, write to:

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Polls Figure It Out At Tech

by Carroll Boswell

There has always been a great deal of competition among the various classes here. The competition is especially noticeable between the freshman and sophomore classes, but it can be seen between any two of the classes. It's a tradition.

Now there is a way to compare all of the classes in a reasonably statistical way. Remember the tests you took on registration day the first term? Well, the results are in. Not only that, but I have in my possession the results for all four classes. (Gleeful laughter in the background.) So here comes the final battle.

Actually, I will not even pretend to be unbiased. I will restrict myself to actual statistics at all times but you all know which class I'm trying to favor. It doesn't do me much good though. I discovered that the questions were changed each year, so it was very difficult to find any questions that were asked enough years in a row to form a comparison. Of course, the most interesting questions were repeated the fewest times.

If Not Marriage?

For instance, there were the statistics on marriage and dating, which of course is the most interesting question of all. I discovered the very interesting fact that the senior class seemed significantly more ready to get married than the junior class. 83.5% of the senior class said there was little or no chance of them getting married while in college. The junior class, on the other hand, were 91.5% not ready for marriage within four years. The even more fascinating fact is that the seniors dated

in high school a slight amount less than the sophomore class. (All right, so I'm stretching it a little.) I do wish there were similar data for the freshman class.

Another interesting comparison is that in both the junior and sophomore classes, only about 2.6% had smoked a cigarette before coming to Caltech. The freshman class, when asked the same question, reported only 1.6% had previously tried cigarettes. In other colleges across the country, the junior class had ranked the highest in that question. But in other universities, depending on the year, there were between ten and seventeen per cent who had tried smoking before college. (Wonder why Caltech is so special?)

Rich Kids?

The most significant statistic, which was repeated for each class, the average income of our parents. It appears that with each class, the average income raises slightly. Over these past four years, the percentage of students who had parents who earned \$15,000 per year or more has increased by ten per cent. At the same time, those with parents earning less than \$10,000 per year has decreased by ten percent. Despite this, I note that the freshman class had parents with the least education. Only 28.0% had parents with a college degree, compared to 31.0% for the junior class.

Another fairly interesting comparison is the plans of the different classes. The sophomore class had the highest proportion of people planning to go on and get their Ph.D. (93.2%). The junior class had the least percentage who wanted a Ph.D. (86.1%) and the greatest percentage who would stop at their M.S. (10.0%).

Convex Juniors

Also note that the junior class participated most in their high schools. They were the most well rounded of any class, having the highest participation in all high school activities, from being elected president of their class to editing the school paper to lettering in sports. (Very fun-

ny. By the way, the actual figures are that 30.0% of the junior class lettered in sports of one form or another.) The only activity that the junior class did not win completely was participation in an NSF program. That was won by the freshman class with a percentage of 36.3%. However, the junior class did not do the best in high school as far as grades are concerned. Each succeeding year outranks the other in fact. The seniors had, on the average, the lowest high school grades while the freshmen had the highest. And at the same time, the freshman class almost managed to get in the same amount of activities as the junior class. Almost but never quite enough.

The questions most often repeated had to do with the religious preferences of each class. I am sure a great deal of significance can be derived from these statistics, but I will not even try. The number of people who prefer a Protestant denomination goes down a very little with each class. On the other hand, those who prefer Roman Catholicism to other religions have been going up slightly every year. That is, until this year when the percentage did drop slightly. The number preferring the Jewish faith reached a maximum in the junior class, but has gone down ever since until now it is half of what it was. The most interesting fact is that the number of those who have no religious preference at all was decreasing steeply each year until the freshman class when it increased from 29.7% to 42.4%. The freshman class has by far the most number of people having no religious preference at all. The senior class is second to them with 36.4%.

Innocence Onward

That is all that I could find that could really be used to compare the various classes. It isn't really a lot but as I said, the questions were changed with each year. Some of the most interesting of all were asked only to the seniors. For instance, only 22.6% rated themselves as popular with the opposite sex. Less than half of the seniors had tried wine or beer before they came here. The percentage however increased by ten per cent with the junior class. After that, the question was discontinued.

In closing, I will note the only thing I have left to note. The seniors reported that 78.5% of them made wisecracks in class during high school. Really pitiful.

Ducks Drown Opponents

In a triple meet against Cal State L.A. and San Fernando Valley State (SFVS) the Caltech Swim Team ducked both teams by 85-24 and 60-53.

The medley relay team of Wright, Stefanko, Hall and Hight won to start the Beavers off in the lead and they were never headed. Sheffield won two events, the 1000 free and the 200 butterfly. He set a new school record in the 200 fly, 2:11.3, beating DeWitt's record by over 5 seconds. Wright also won two events for the Beavers, the 200 individual medley and the 200 backstroke.

Tyson captured the 200 breaststroke and tied for 2nd in the

200 IM. Kalisvaart was second in the 200 free and tied for a second in the 100 free. Stefanko and Watkins each took a second in the 200 breaststroke and 50 free respectively.

Mikowitz took a third in the 50 free and fourth in the 200 backstroke. Davis was third in the 500 free and fourth in the 1000 free. Hall captured a third in the 200 fly. Rude, Hunt and Hight each captured a fourth in the 200 free, 500 free, and 100 free respectively. The 400 free relay team lost.

In diving Johnson dove to a third in the 1M and 3M diving. Redy was fifth in 1M and in the 3M dive. The Beavers have now evened their record at 2-2.

"We Try Harder" ... NFL

by Bob Enestein

Okay. I admit it. I blew my prediction on the Super Bowl game, but so did every other prognosticator except for Joe Namath. And how many of you would have bet on the Jets, even with seventeen points before halftime Sunday? Oh well, the other six predictions for last week came out alright. If my luck holds out, I may decide to start spending my free afternoons at Santa Anita.

Come Back Some Day!

As for the big game. It was noted by Caltech's resident trivia expert, the legendary J. M. Freemzie the Magnificent, that when the forward pass was legalized in 1903 many people feared the game would get out of hand. This fear would have materialized if a group of quarterbacks with the accuracy of Joe Namath had been around. Even today with big, fast, and strong defensive backs belting hapless receivers around, Joe Namath is good enough to gain over 4,000 yards passing in one season. His accuracy is almost as remarkable as that of Apollo 8's. Some of the credit for the Jet's success must be given to their interior line, and fullback Emerson Boozer. Baltimore's all-pro defensive linemen and linebackers were held back or knocked away at will by the New York blockers. Baltimore and the NFL were famous for strong defenses until the Jets exposed the myth. This fact probably embarrassed the NFL more than any other.

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Towering Earful

by Nick Smith

For once someone put out an album of "Greatest Hits" that really includes all of the greatest hits of a group. This album traces the best music of the Association from "Along Comes Mary" to "Six Man Band." For those Association fans who also happen to be word freaks, the lyrics to all thirteen cuts are printed on the album. They don't pull one of these twelve-minutes-per-side dealies, either. There are over thirty-seven minutes of music on the album, and all of it is good.

Sometimes, like in "Requiem for the Masses," the Association waxes philosophical, while at other times, fast moving happiness reigns, as in "Windy." The quiet songs are there, too, such as "Never My Love" and "Cherish." With the exceptions of "Windy", "Along Comes Mary", "Never My Love", and "Time for Living", all of the songs were written by group members.

Terry Kirkman, group leader, wrote many of the songs, including "Requiem for the Masses" and "Cherish." His lyrics are excellent, if sometimes a bit strange. In "Requiem," the chorus includes the lines "Your flag is flying full/At half mast, for the matadors/Who turned their backs to please the crowd/And all fell before the bull."

All in all, this is an excellent album, and if you like the Association, you'll really love this album.

Cherish is the word.

4th?

(Continued from page 3)

leading away from the ace of clubs, or by giving up a ruff-sluff.

Knockout Teams

In the semi-final round of the Caltech Knockout Team of Four Tournament, Ballard (Gubman, Haberly, Stevens) beat McDonnell (Trijonis, Firkins, Noorvash) by four imps, largely as the result of an eighteen imp penalty against McDonnell for lateness. McDonnell was the only regular member of the team who could play as the remainder of the team was composed of three substitutes. In the other match, Delaney (Geller, Ma, Wu) beat Unger (Reedy, Sperry, Pendergraft, Hedges), by 96 imps.

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The Holy Trinity

(Continued from page 3)

Cul-de-Sac

The organist is their best musician and he is not outstanding. He is heard on "Hard Road" and his work here becomes repetitive. Their whole album suffers from the repetitiveness of their musical arrangements. The singer has a pleasant voice which would typically appeal to a teenybopper audience. The guitarist tries to be a psychedelic guitarist in the style of Hendrix and Clapton and fails miserably. His solos have too much feedback and too little taste.

The best song on the album is "Listen, Learn, Read On," the first song. It has a nice beat and the words about Taliesyn (King Arthur's bard) are nice. However don't follow their advice. Stop here.

A Time Oddity

The Deep Purple go from the instrumental "Hard Road" to Neil Diamond's "Kentucky Woman" which is an interesting version. However, it suffers from Deep Purple's Blue Cheer-like back-up. Finally they do their best to destroy "We Can Work It Out."

They try a social protest song which flops and has terrible instrumentation. Next comes a Procul Harum type song which is but a mediocre copy. They end with "River Deep, Mountain High" which begins with the 2001 theme and then goes through some trite lyrics and some more poor instrumentation. This song is a fitting ending to a dismal album.

Hoopsters Lose Five

Starting the Saturday of Christmas vacation, the Beavers basketball team started on a five game losing streak.

La Verne handed the Beavers their worst loss, 103-73 as some varsity players had already left. Fox leads the Beavers attack with 17 points while Bicknell had 12. Koeing and Pool had 10 apiece. The team shot a high 66% from the free throw line and 38% from the field.

Biola downed the Beavers twice, 87-60 and 93-65. Fox again led all scorers with 16 points in the first game. Bicknell and Hansen had 12 apiece as the Beavers shot a terrible 32% from the field and an even worse 43% from the foul line.

In the second, Biola game, the

team had an even worse floor percentage, 28.5% but had a much improved 59% from the free line. Heinz led the team with 12 points and 10 rebounds while Bicknell had 10 points.

Hansen starred in the game which Southern California College won 93-71. He had 16 points and a season high of 22 rebounds. Ault had 15 points while Heinz had 11 with Fox and Bicknell scoring 10 apiece. The team shot around averaging, 37% and 53% from the free throw line.

The Beavers lost their first league game to CHM, 88-65. Heinz led the team with 18 points and 12 rebounds while Hansen scored 15. The team shot 36% from the floor and a

paltry 40% from the free throw line.

Matmen Pinned

The Beaver wrestlers had their record evened at 2-2 as the Pomona Sagehens downed the Teckers 26-17.

The Beavers heavyweights again led the team as Johnson (heavyweight) and Beagle (191) both pinned their men. Also winning were Hornbuckle (130) and Lewis (145). Woodhead (167) tied his man in his first match of the season.

Losing on points were Morris (115), Cox (160) and Devinney (177). Langill (123) and Taylor (165) were pinned and we forfeited the 137 lb. class.

Coach Gutman feels that the team is coming along well and feels that they will better last year's record.

Ruggers Win

by Dr. Alan Cope

At half-time in their game last Saturday, the Caltech Rugby team trailed Pomona by 13 points to zero, and at that time had shown no indication of being able to improve things when the game restarted. In the first half an aggressive Pomona team had carved huge holes in the Caltech defense. The Caltech offense never really got going.

In the second half things started to happen, when Chris Hamer scored a fine penalty goal (3 pts.) with a drop kick, and then Dick Lipes scored a try, roughly equivalent to a football touchdown but worth three points. This followed a run by John Speight which split the Pomona defense wide open. There followed a period of intense offensive play by Caltech, but the team's efforts were fruitless until the seven minutes before the end. Then the world turned upside down as Peter Dodds, Harry Hyland, and finally Dave Schram ran over for tries. Harry Hyland also gained two points on a conversion after one of the tries. Caltech's reversal was complete, with the final score 17-13.

Money's Worth

(Continued from page 1)

army friend, and his partner in dealing with Scotland Yard is the corrupt police commissioner Brown. The relationships of Macheath, Peachum, Brown and some of the women form the basis of the plot of **The Threepenny Opera**. Many other minor roles are available to men (Macheath's gang, beggars, policemen, for example) as well as the important part of the ballad singer who introduces the play with the famous song "Mac the Knife."

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