

Five Checkbooks Reported Stolen

Five checkbook thefts from campus property have been reported in recent weeks according to Ken Charles, head of plant security for Caltech. The checkbooks were evidently stolen from desk tops in the student houses.

Checks from each of the above books were passed at grocery stores as well as at banks in the Pasadena area. Even with the accounts stopped successfully, cashings have been recorded.

All except one of the checks forged were written out for amounts less than fifty dollars. Detective R. E. Hill of the Pasadena Police Department forgery division reported that it is not known whether the party involved is an individual or a group. Hill believes that at least one individual is a male Negro is his early twenties.

One check was cashed in a bank by a fourteen year old male Negro using false identification. Apparently the teller did not check the identification and cashed the check. No other details of the youth were disclosed by either Charles or Hill. **Not a Beginner**

In the case of the thefts from rooms, the rooms were searched carefully and only checks, small change and the "Welcome Check" courtesy card were removed. According to Hill, the thief is most likely not a beginner.

Hill described the signatures as looking similar, but would not elaborate. He said that no handwriting analysis had been performed on the forged signatures, and that none would be made until more evidence or a suspect had been found.

Caltech students should keep careful watch of their checkbooks and associated identification. If a theft is discovered, the bank should be notified in writing, as well as by telephone, and the questioned checks stopped. A second copy of serial numbers should also probably be kept.

Recently, Pasadena area merchants have been reluctant to accept Caltech students' checks. A continued rash of phony checks might frighten away the businessmen from accepting any Tech checks. The proposed Institute identification procedures, involving Polaroid process pictures would be a safer and acceptable identification, according to Hill.



—photo by Ctein
Lukas van Vuuren (r.), Caltech's first artist-in-residence is experienced in the use of novel techniques and media. Seated next to Lukas is Chrys Atwood, his assistant. They may be contacted at Earhart Studio, ext. 1032.

Earhart Lab Now Studio

New Art Courses At Tech

Caltech now has an art program, with Lukas van Vuuren as Caltech's first artist-in-residence. The Institute Art Program is located in the Earhart Studio (formerly the Earhart Laboratory for plant research) which is located on Michigan, across from the Beckman lawn. The program, created by the Institute Committee on Art, received its initial funding from Mrs. Virginia Steele Scott and the Old Dominion Foundation.

Five different types of programs will be run by the Art Program:

Drawing Workshop

This class will be designed to accommodate beginner as well as advanced students. Topics will include life drawing, space relationship, and technique. There will be models available for those who wish to do life drawing and figure composition. The advanced students will be encouraged to do exercises in more nonfigurative and conceptual drawings, working with materials other than pencil and paper. Drawing classes will be held in the evening twice a week. It is recommended that the students at the beginner's level in Drawing classes also take the Painting class. (2 hours per class)

Painting

The painting class will meet twice a week in the late afternoon. Technique, media, and composition will be covered. Models will be available for those who wish to do life-painting and figure composi-

tion. Advanced students will be able to experiment on their own and with any choice of material. Basic equipment such as brushes, canvas, paints, etc. will be supplied by the Art Department. (2 hours per class)

Art and Technology
Work is presently being done in the U.S. to apply technology to

(Continued on page 5)

Tech Goes Offset New System Hopeful

The California Tech is now being printed in a completely new way. Switching from the old letterpress printing using lead type and half-tone cut metal plates for pictures, the paper will now be printed by a high speed offset process using a photographically based method.

The new technique should increase the versatility and diversity of the newspaper's coverage by enabling a variety of artwork and high quality photographs to be printed. The resolution of the offset process is limited practically only by the quality of paper involved.

Magnetic Tape

Starting with typewritten copy, final printed copy will be produced by the IBM "Magnetic Tape/Selective Composer" computerized typesetter which works from a master magnetic tape. The new equipment will be kept on the Caltech campus.

Gameroom Scene of Summer Vandalism

Over the summer, several events have brought about the necessity of closing the gameroom in Winnett Student Center. There have been cases of vandalism and much damage has been caused through misuse of the gameroom facilities. In view of these recent events, the lock on the Winnett gameroom has been changed.

In just the first three weeks the new vending machines were installed, two cases of vandalism, involving damage of \$60 to \$80 each time, occurred. A third case of vandalism occurred the night of August 7, in which the vandals were apparently interrupted in their work before they had done much more than partially break the glass on the food machine and bend the door to a cabinet.

Guests Pre-empt

There have been numerous cases of the game tables being pre-empted and sometimes misused by guests. Recently, four of the five tables were repaired at a cost of almost \$450. The custodian even reported finding urine in one of the trash receptacles Thursday morning.

Problems of this sort were occurring last year during finals week third term when many of the

students had already left. The problems have continued, growing worse. Even the day after the new lock was installed and students began using the gameroom again, vandalism began. The situation has finally become so bad that some action has been deemed necessary. **Knockers**

One principle cause of these problems is probably the practice of opening the doors to "knockers." This has been done in spite of the notices on the inside of each door. Over this summer, this problem has increased very much, until now there is a very large number of non-students in the gamerooms without being accompanied by a Caltech host student. There have also been reliable reports that there were numerous keys in the hands of unauthorized persons.

It is very probable that the possession of keys by these unauthorized people was one of the primary causes of the problems. Also, the easy admission of non-students to the gameroom without a Caltech escort is practically asking for trouble. There is little doubt that the Honor system works, but we can not expect it to extend to non-members of Caltech.

Center Committee

In view of all the above events, the Winnett Student Center House Committee met on Thursday, August 14, 1969. Among those present were Dr. Lyman Bonner, Director of Student Relations, Mr. Richard L. Mulligan, Director of Business Services, Derry Hornbuckle, Secretary of ASCIT, Stephen Horner, President of ASCIT, Michael Stefanko, Activities Chairman of ASCIT, Jay Wiley, Treasurer of the Graduate Student Council, and Peter Zassenhaus, Student Gameroom Chairman.

The express purpose of this meeting was to discuss ways and means of solving the situation which precipitated the recent closing of the Winnett gameroom. Proposed were ways in which the gameroom might be reopened as quickly as possible so that there would be less destruction of property and so that that property might be more available to those who need and want to use it.

Illegal Keys

Some aspects of the situation did emerge in the general discussion. For instance, many of the "illegal"

(Continued on page 5)

Ghostess with Mostest

Marni Nixon in Double Bill

Marni Nixon was once told by composer-conductor Leonard Bernstein that her professional life combined the best of all possible worlds because as one of the Southland's busiest lyric sopranos, she engages simultaneously in both popular and classical musical presentations.

The lovely red-head will star in the musical double bill which opens Beckman Auditorium's fall series. Marni Nixon and Sandy Kenyon make beautiful music in Leonard Bernstein's one-act opera, "Trouble

in Tahiti" and "Kurt Weill - A Rehearsal," written by Paul Hunter, two new productions conceived and directed by Alan Bergmann. The double bill will be presented on the Caltech campus, in Beckman Auditorium, on Friday and Saturday, October 3 and 4. Curtain time both evenings will be at 8:30 p.m.

Leading Lady

Altadena-born Marni Nixon has been named "The Ghostess with the mostest" by Time Magazine for her dubbing for the leading ladies in the motion pictures, "The King and I,"

"West Side Story," and "My Fair Lady," to mention a few. She hopscoches from appearances in opera on both coasts, to guest spots on TV, and is a popular night-club performer and musical comedy leading lady.

She has recorded the complete vocal works of Webern, Stravinsky, and Schoenberg for Columbia Records.

For ticket information on the exciting season's opening event in Beckman Auditorium, Pasadena, call 793-7043.

A second advantage of the process is its economy. While in past years the size of the newspaper was limited severely by the number of advertisements this process may be sufficiently less expensive to enable a minimum paper length of eight pages with virtually no restrictions on the number of photographs.

Camera Ready Copy

The final copy is typed on a special high quality white paper by the typesetting unit. The copy is then "pasted up" on a large sheet of white paper furnishing "Camera Ready" copy for the printer. Spaces are left for photographs which are photographed separately to form a negative copy from which the final plates are made.

The printer, News-Type Service of Maryland Avenue, Glendale, also prints the L.A. State College and Occidental College papers as well as seventeen others. The giant presses print an; fold the paper in one operation at 20,000 copies per hour. The press is actually four separate units, each threaded with a roll of paper brought over a system of rollers and harnesses—hence the name by which it is usually called—a "Web."

Color Possible

Should four color printing be desired, a single sheet is threaded through all four presses—each loaded with a different color image. A flaming system dries one color before the next is applied.

The new California Tech format will be characterized by the new nameplate and new artwork for the various departments. Also, the cartoon strip "Odd Bodkins" will be carried regularly.

New Phone System

If you are calling a campus extension from an outside phone, some new procedures may be necessary. While the switchboard is open, from 8 a.m. to 5:20 p.m., outside calls will be handled as they have been in the past. When the switchboard is closed, the regular daytime number (795-6841) is connected to Physical Plant's emergency number; the old night answering service number has been disconnected. So don't be surprised if a voice answers: "Caltech Emergency Service." You can still get your call through.

EDITORIAL

Enthusiasm

This editorial is not an editorial, and it is not concerned with all Caltech students. Today, 212 freshmen and almost 20 transfer students are to board buses for the annual freshman orientation camp in the San Bernardino Mountains. Since this issue of the newspaper is printed primarily for those students, this article is directed to the new members of the campus community.

Caltech is a school of primarily one academic purpose— to produce the finest scientists and engineers possible. Its student body, however, is not one of a single purpose; neither does its faculty shy away from leaving the comfortable realm of theory. Caltech's extracurricular activities range from athletics to esthetics, and often the brawniest Techer has the lightest touch at the keyboard of a delicate musical instrument. What point, all this poetic hogwash? Simply that it is possible to be conscious of other fields while pursuing the most intense intellectual endeavor.

Over the summer, all of the new students received some mail from one or more of the various activities— the glee club, the YMCA, and the various special interest groups. In general, these were sent only to those indicating some interest. This is a plea for all members of the Tech community not to ignore the opportunity for expanding their interests and broadening their interests.

The students research projects in education are one good example. Many Caltech students first had to tone their way of thinking and solving problems to the task of dealing with people, especially with underprivileged children. They found situations where the great control of science simply was irrelevant. They grew at the challenge and took the risk of disturbing a great many residents of the campus.

Last spring, as well as four previous years, the Associated Students produced a musical. Last season it was *The Threepenny Opera* by far one of the most challenging musical productions to be performed on Broadway. Sure, the performance was not the sharp, polished effect of a professional cast, but the cast and production staff learned a phenomenal amount about theatre and about human nature in the hectic days preceding the performance.

Are any of these activities any more valuable than those at a liberal arts college? Probably not. But the basic point behind them is that a great deal should be done that is not scientific or precisely technical. It is that these activities are necessary to round out the mind of a dedicated scientist. A large portion of the undergraduate student body has claimed lack of time, or lack of desire to commit themselves outside their home discipline. We cannot argue with the difficulty of the coursework. But we can argue with tunnel vision.

Finally, a word about the newspaper you are now reading. The *California Tech* is one of the oldest institutions on campus, with issues going back to the days when Caltech was Throop Tech. For many years the newspaper was operated erratically, for a number of very legitimate reasons. This year a new attempt is being made at reorganization. Whether that attempt is successful is up to the readership. The *California Tech* needs writers, cartoonists, photographers and, most of all, a concerned readership. As freshmen those of you going to the orientation have the most potential in your initial enthusiasm. Do not lose it. It is the force behind all of the recently found activism. The Caltech campus has never been particularly activist. We would like to see the new found enthusiasm grow.

—Ira D. Moskatel

Suicide Hunter

by Dave Lewin

The Young Health Center has been the professional residence of a new campus psychologist since June of this year. Dr. Ian Hunter who has taken over the position previously held by Dr. Kenneth Eells, is a clinical psychologist in his early thirties with a deep interest in the non-clinical problems of students.

Dr. Hunter attended high school in Tustin, California, in 1956 and entered Occidental College from which he graduated with a degree in psychology. He received his doctorate from the University of Oregon in 1966. Earlier, in 1963, he spent fifteen months as a clinical intern at the Los Angeles Suicide Prevention Center. Dr. Hunter was a postdoctoral fellow from September, 1966, to September, 1967 with a joint appointment at Stanford Medical Center, Mount Zion Psychiatric Clinic, and the Langley-Porter Neuropsychiatric Institute. For the past two years he had been Assistant Professor of Psychology at UCLA, teaching Abnormal Psychology and supervising advanced graduate students at the school's psychology clinic.

Flexibility

One of Hunter's major reasons for taking the Caltech position was the flexibility of definition of functions he was offered. He sees his work falling into two categories — traditional counselling activities and less traditional "enrichment" activities. The former functions include handling students going through psychotic episodes and suicidal crises, advising students on interpersonal relationship problems, and even marriage counseling.

Since he is also interested in the normal problems of surviving everyday life, Dr. Hunter will be working with segments of the student body on setting up personal encounter groups, aiding in clearing campus communication channels, and participating in informal bull-sessions. Dr. Hunter said that he wanted to get to know the students and help them as much as he could. His plans to expose the campus to psychological thinking involve bringing experts on various topics to campus, sponsored either by the Caltech YMCA or the Health Center. The first speaker he is bringing is an expert on the causes of suicide among adolescents and how to prevent suicide.

Who me???

Admission Procedure Told

by Ed Schroeder

"How did I get in here?"

Rare is the Techer who has not asked himself that question at least once, sometimes not rhetorically. For the first time, certain Techers are now in a position to enlighten their fellow students concerning the straight meaning of the above question. In the last two years four Techers have been chosen each year to sit with the Freshmen Admissions Committee of the Institute and serve as assistant interviewers on the local interviewing routes; now these students have access to all information pertinent to the admissions procedure.

Last year I was one of the four students on the Committee, and in response to a desire for enlightenment on the part of some Techers, and as a service for all you poor frosh, I have undertaken to explain in part the Mystery of the admissions process.

Faculty, Some Students

The Freshmen Admissions Committee consists of 16 faculty members, as many students as the Committee chooses to request and ASCIT chooses to appoint, and a Director of Admissions, Dr. Peter Miller, who chairs the Committee and therefore, by the logic of parliamentary procedure, is not a full member of it, but only ex officio.

This year I understand that the Committee will not limit the number of students serving on it to four. The only reason that this limit was imposed in the past is that only four of the interviewing routes are local and the Committee has not felt it economically feasible to undertake the expense of sending

students to routes outside of the immediate Los Angeles area. This year students willing to provide their own transportation to and from interview locations will be eligible for acceptance to the Committee; last year several students, including Steve Patt and Steve Pomeroy, assisted at interviews in this way but were not granted Committee membership. The faculty members of the Committee are apparently unworried by this impending threat of increased student vote power.

Square Routes?

As most Techers are aware, each faculty member on the Committee is assigned a general interviewing route, such as Arizona or Orange County or New England. There is no attempt to formalize the route boundaries; each faculty member is given roughly the same number of applicants and the boundaries of routes are varied from year to year in order to make the most sensible, compact route areas. After the Early Decision candidates have been dealt with and all applications for spring admission are in, each faculty member is given his file of students. He then reads through his file, discards obviously unfit candidates, and then tries to include all the others in an interviewing schedule, compiled with the help of the schools and the Admissions Office personnel.

Obviously, the number of interviews we can arrange with foreign students is very small, and as most faculty members have only the break between second and third terms in which to do their interviewing, many people in various places in this country may have to be left out, as well. However, it is Committee policy to try to inter-

view every candidate who is being considered for admission.

Once the interviewer leaves Tech, he is on his own. The Institute pays expenses, later. In the case of local routes, such as the San Fernando Valley one that I was on last year, the interviewer need not live away from home, which simplifies the problems. The schedule is generally tight, leaving little room for miscalculation or delay.

Five for Three

After the interviews are all completed, the Committee members blow the first week of third term in the so-called Three-Man Committee meetings and then the Full Committee meetings. My Three-Man Committee, which had five members, met and discussed the candidates before the Full Committee met, and made decisions on the basis of classifications of Accept, Reject, or Hold for the debatable cases. The cases start with presentations of the Accept cases and run on down the line until everyone gets tired and goes home.

Notices

SCIENCE FICTION SOCIETY

Scheduled activities this year include visits by authors Harlan Ellison and A.E. van Vogt; on the agenda is possible course credit for certain aspects of membership; the first meeting is 8:00 PM, Thursday, October 2, in Clubroom 1, Winnett. Please try to come if you are interested; this will be an important meeting.

INSTANT INSANITY LIVES

There is a second album by the Firesign Theater. Org!

PHOTOGRAPHERS

Anyone interested in doing photography work for ASCIT publications contact Steve Dashiell, Blacker.

TUITION ERRATA

Contrary to the Caltech Newsletter Number 2, Caltech tuition is NOT going up to \$2385 this year, but will remain at \$2100.

LETTER

MJQ-LASQ

by Pearl Fles

The "Critical Ear" reporter who covered the previous Beckman Auditorium performance by the Modern Jazz Quartet a couple of seasons back, not only used all the superlatives in his book to describe the performance, but commiserated with those Tech-men who had been unable to attend that famous concert.

Well, we have good news for all of you. Made possible by a grant from the National Endowment for the Arts, the Modern Jazz Quartet returns to the Beckman stage on Friday, October 10 at 8:30 p.m. It promises to be a far-out evening's entertainment. Following the world premiere at the Monterey Jazz Festival this month, of the MJQ and the Los Angeles String Quartet, this grand ensemble will make its Southern California debut on your campus.

LASQ will solo with Bartok's Quartet No. 3; MJQ will solo with work written by their own John Lewis and Milt Jackson. Then the two groups, in a grand encounter, will perform some jazz and some classical numbers.

Special discounts are being offered Caltech students, faculty, and staff. Call campus extension 1653 for ticket information or better still, come by and get yours before all the good seats are gone.

Political activity in any sense is something that almost doesn't exist on the Caltech campus. There are small clubs for the two major parties, a chapter of YAF and an SDS which used to have two or three members, but none of these groups seem to do very much and what they do they do quietly. The one campus anti-war group has probably died of lack of interest although I will be trying to get it going again. The most obvious activity occurs when a group of students get interested in some specific issue such as the oil slick last year and starts lobbying. The most political ongoing organization of any importance is the Caltech YMCA, which sponsors things such as a ghetto tutoring program.

Many of you who read this may not want any political action at Tech. Even those who are interested in some kind of politics may feel that they can act better on their own. However I hope there are also some of you who are interested in what goes on in the world and who would at least like to contact other people who are interested. If so please contact me, George Rappolt, Fleming House. I would be especially happy to hear from graduate student or off-campus political bodies, which in the past have had very little contact with undergraduate on-campus groups. My own orientation is mainly radical, but in the general absence of any activity whatsoever strict ideological segregation doesn't make much sense. I'd be happy to hear from anyone.

George A. Rappolt
Fleming

California Tech

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Editors: Ira Moskatel, Craig Sarazin, Editors-in-Chief; Dave Lewin, Alan Stein, Jim Cooper, Associates.

Staff: Roger Goodman, Charles Creasy, David Linker, Bob Dullien, Bob Nnstein, Mike Farber, Bob Geller, Etoain Schroedlu, Mike Stefanko, Nick Smith, John Healy, Kevin Savage, Con E. Staisey, Jeff Hecht, L. T. Stupor, D. C. Agnew, Bruce Britton, Walt Farrell, James Henry.

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Huttenback Tabled



New Dean's Annex

by Ed Schroeder

Dr. Robert A. Huttenback, the New Dean of Students, is looking for help. He is trying to make Caltech a better place to be a part of, and he wants help from you.

"I don't believe that the Dean's office should just be a place for students to come to when they're in academic trouble or have a beef," said Dr. Huttenback. "I believe that it should be an active place, a lively place, where students with ideas come to discuss them, and where students just drop by to see what's happening."

There are many things that can be done to make life at Caltech more enjoyable, and to help combat problems in the outside world as well, maintains Dr. Huttenback, siding himself firmly with the 'activist', as opposed to 'apathetic', student philosophy. "We're thinking about setting up some sort of Student-Faculty-Dean's Council, to promote communication and talk about Tech and its problems, something very free and informal. We'd like to see more interchange between students and faculty and having interested faculty members issue invitations to students for meals might help here."

Dr. Huttenback, who abhors the title 'Dean', is also concerned with being Dean of all the students, not just the undergraduates. He is hoping for increased contact between the grads and undergrads, and hopes to obtain the funds to extend ticket discounts to the grads in time. These ticket discounts, for all you frosh, may enable you to get up to half your purchase price back on purchase of any tickets which may be deemed culturally rewarding, which in the past has been

interpreted very liberally. The funds for this used to come from the 'Master's Fund'; this year these funds will be covered by the Dean's office. On getting discounts: if in doubt, ask.

The efforts of Techers to show some concern for the problems of the outside world are warmly applauded by Dr. Huttenback, who hopes that such activities as the tutoring program at local schools will continue and thrive. He is in a position to more than just hope, however, and is willing to be of more concrete help if students wish it.

The removal of his office from the convenient walk-in on the Olive Walk to the dusty confines of Throop may prove a handicap, Dr. Huttenback feels, as students are less likely to drop in, or come for any reason other than a gripe. In order to keep communication at a high level between himself and students, Dr. Huttenback is considering having frequent open houses at Arden House, the conveniently-located residence at California & Arden, which he is retaining, and perhaps by creating a Dean's Office Annex table at the Olive Walk, to be manned by him a few days a week.

Dr. Huttenback feels that ideas and plans relative to the students should come up from the students, not down from the Administration. He is eager to hear these ideas, some of which he may be able to implement (a Dean does have some power), and to talk with Techers even if they have no ideas. Drop in and see him; it may help you. You have a Friend in Throop Hall.

Rough Draft

California draft boards still don't know that Lt. Gen. Lewis B. Hershey's "advice" that they induct law-breaking demonstrators is illegal, even though it has been more than three months since a U.S. Court of Appeals ruled against him, a random sampling conducted by Senator Alan Cranston (D., Calif.) has revealed.

As a result, Cranston has called upon the Selective Service System director to halt his "personal defiance" of the law by immediately notifying "all draft boards in my state and every state" of the court's decision.

"At a time when respect for the law is of paramount concern in our nation, your position undermines the very spirit of cooperation which your office expects from those asked to serve in our armed forces," Cranston wrote the General in a letter the Senator made public Monday.

Board Reads Papers

But the General refused to officially notify the boards of the decision, saying that board members "read the papers."

Nonetheless, phone calls last week by Cranston staffers in Los Angeles and San Francisco revealed that not one of the boards contacted was aware that the "draft demonstrators" policy recommended by the General is illegal. Cranston's offices called local boards at random in Hollywood, Los Angeles, Riverside, Santa Ana, San Bernardino, Santa Barbara, San Diego, San Francisco, Sacramento, Fresno, San Jose and San Rafael.

Cranston has been an outspoken critic of "the inherent inequity" of the draft system. He is co-sponsor of a bill by Senator Mark O. Hatfield (R., Ore.) that would create an all-volunteer army.

The Appeals Court in Washington, D.C., ruled on June 6 that Hershey's advice was "unauthorized and contrary to law."

Respect Your Law

"If anyone should be expected to respect the law, it should be men such as yourself who have responsibility for upholding and administering the law," the Senator declared.



It's a Flying Rossum!

Cranston also attacked the General's directive as "a blatant contradiction of First Amendment guarantees."

"I am shocked that a man in your position would view military service as a form of punishment," he told Hershey.

The NSA appealed and the June 6 Court of Appeals judgment stated that apart from specific draft violations, "a registrant's protest activities are not to be considered in determining his Selective Service classification."

The court declined to grant an injunction against application of the Hershey doctrine, saying that it was relying upon local draft boards to follow "the law as judicially declared."

Queried by the press immediately afterward, Hershey refused to publish news of the appeals decision in the Selective Service Bulletin.

Off to Nepal, via London, Athens and points between, is Caltech biology student David Rossum from San Jose. A prize-winning essay on mountain climbing in India earned him the trip sponsored by California Institute of Technology in Pasadena.

The Pan Am flight's the easiest part. Rossum will spend six weeks hiking into the back country of Nepal, will mountain climb—he's aiming for the 18,000-foot base of Mt. Everest—and study the Sherpa society.

Sherpas are the famed porters on mountain climbing expeditions. Many have reached the summit of Mt. Everest, and according to Dave, are noted for their easy going way of life. "They're delightful people, happy, really neat."

Rossum, who has climbed in the Sierras and in Mexico, plans to hire a Sherpa guide and a porter. He will shoot up to 80 roles of film with his Rollie, and process color when he returns via Honolulu in November.

Dick Vaughn, of Dick's Travel Service in Pasadena, arranged the itinerary.

Dave is the son of Mr. and Mrs. John R. Rossum, of 1212 Clark Way in San Jose.

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Cassiopeia Affair Not Science Fiction; Brown versatile

by Ed Schroeder
THE CASSIOPEIA AFFAIR, by
Chloe Zerwick and Dr. Harrison
Brown.

The *Cassiopeia Affair* is a "Science-Fiction Novel," according to the cover of the new paperback release. Actually, this is not true. Granting a few conditions, however, it is an enjoyable story of the effect of a stunning scientific discovery on certain world leaders, and of their subsequent actions. One of the authors is Caltech's own Professor Harrison Brown, PhD, etc., and many of his interests are to be seen in this book, including the politics of government budgeting and of international relations, as well as science.

In the story, a renowned scientist announces indications of non-random extra-galactic impulses have been received from the region of Cassiopeia, indicating the existence of extraterrestrial life. Subsequently the book's concern is with the terrestrial, social effects of this announcement upon the world and a coterie of scientists and world political leaders, especially those of the U.S., U.S.S.R., and China.

The above-mentioned conditions for enjoyment are that the reader not object to the dissertations on science and politics to which the book is given. These clearly demonstrate Dr. Brown's knowledge and beliefs in these fields, but may detract from many readers' enjoyment of the book, through lack of understanding of the first or disagreement with the second. These problems should not bother most Techers however.

The sketching of the few main characters, especially the President, is well done and believable, although leaning toward black-and-white characterizations, and indicates the knowledge and insight which Dr. Brown actually has had the opportunity of possessing about such people.

In the end the bad guys are set up to lose, which is enjoyable, but the triumph of virtue is less than complete, which is realistic. The book is good for a few hours, with serious undertones.

Dan O'Neill D BODKINS

Campus Personalities

New, Take New Jobs

There have been a number of changes in Caltech personnel which will affect the residents of the Student House this fall. The number of married Resident Associates has risen to three couples: John and Sandy Webb will return to Dabney while Michael and Kathy Sheetz will move into Ruddock and Peter and Lois Smith will take over in Ricketts. The other four RA's are John Hall in Blacker, Bill Beranek in Fleming, Kurt Weiler in Page, and Thomas Noyes in Lloyd. There will also be five resident graduate students braving the wilds of life in the undergraduate houses: Richard Price in Blacker, Benez Trus in Dabney, Christopher Hamer in Fleming, Harold Spinka in Lloyd. Page House managed to get its old house president, Pericles Nicolaidis, as a resident graduate.

The office of the Master of Student Houses also has a new occupant, Dr. David R. Smith, associate professor of English. Dr. Smith, who has been on the Caltech faculty for eleven years, is a member of the faculty aims and goals committee and the faculty committee for the arts. His office staff will consist of Muriel Williams and Caroline Rob.

Dr. Smith's predecessor, Dr. Robert Huttenback, who is now Dean of Students, has moved into his new office on the first floor of Throop Hall along with his secretary, Mrs. Ned Hale.

**EAT
NOODLES**

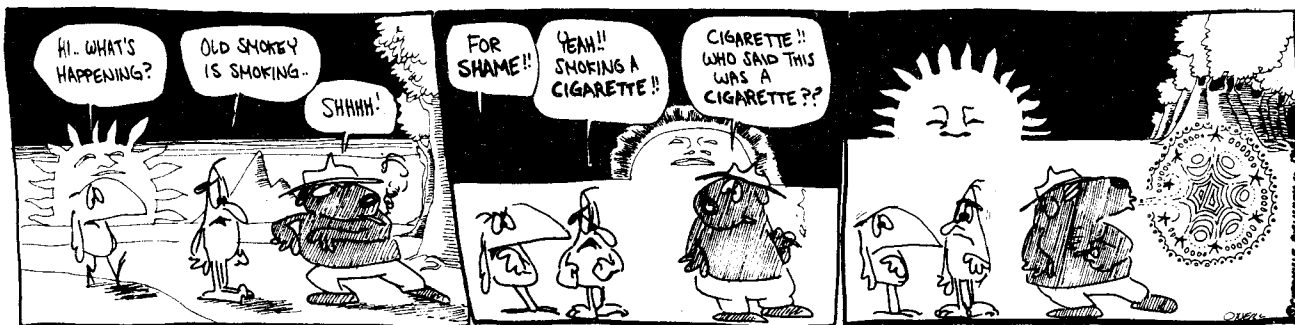
NUMISMATISTS

On September 17, 1969, the members and guests of the Caltech-JPL Numismatic Society were treated to a most enjoyable presentation by Mort Goodman, Director of Authentication and Research for NECA. Mr. Goodman spoke on "The Minting Process," covering all phases of the manufacture of coinage from the initial modeling of the pattern through preparation of dies, punching of planchets, etc., to the finished coins. He also discussed those factors that can go wrong during the minting process, thus causing error coins such as clips, off-center coins and so on. Of particular interest to those attending was a discussion of the operation (?) of the Philadelphia Mint's new "coin roller."

On Wednesday, 15 October, Walter Fritzsche and Edward Tarantino will speak on "The Traveling Numismatist." Mr. Fritzsche and Mr. Tarantino have

just returned from an extensive tour of Europe, including a jaunt into Russia. As numismatists, their tour talk might well be sub-titled "Through Europe with Wallet and Camera."

Membership in the Caltech-JPL Numismatic Society is open to all Faculty and Students of Caltech and to all employees of Caltech and JPL. In addition, associate memberships are available to members of the families of the above. The Society meets at Caltech in the Church (laboratory) Building at the corner of Wilson and San Pasqual streets in Pasadena, Calif. Meetings are held on the third Wednesday of each month at 7:30 PM. Visitors and guests are always welcome (whether eligible for membership or not) and refreshments are free. Door Prize drawings and a coin auction are held each month.



The Critical Left Ear

THE GLASS FAMILY: *Electric Band* Warner-Seven Arts, WS1776

The Glass Family is a group from the same mold as a lot of groups these days. While they are not as moldy as some, there is nothing to make this an outstanding album. The music tends to outclass the vocals. The whole thing is listenable but not memorable. In the context of a dance the Glass Family might make it, but they don't have the stuff for a record.

—James Henry

IT'S A BEAUTIFUL DAY: *It's A Beautiful Day* Columbia CS9768

It's A Beautiful Day has been San Francisco's favorite unrecorded group for the past two years. At long last they are available on record. The wait was well worth it for they have produced a record of exceptional quality.

David LaFlamme is the backbone of the group. He, with occasional assistance from his wife Linda and Vince Wallace, wrote all the material on the album, produced it, and played the violin and did lead vocals. His background includes work as a concert violinist. While his work is not classical-rock by any means, the musical know-how is clearly evident. He is given able vocal assistance by Pattie Santos.

Instrumentally Linda is in command on keyboard, mostly organ. This is backed with Hal Wagenet on guitar, Mitch Holman on bass, Val Fuentes on drums. David's violin adds a pleasant accent.

The selections range from the lovely ballad "White Bird," to the raga-rock "Bombay Calling," to the hard-rock "Time Is." I think all but the most pearl-stud bound traditionalist will find something enjoyable in this very talented group.

—James Henry

SWEET THURSDAY: *Sweet Thursday*, Tetragrammaton, T-112

This group of five Englishmen has clearly been putting its time to good use. This is the first I've heard of them and that's probably because they've been locked in a practice studio for a few years perfecting their music. They produce one of those very contemporary sound that defies classification and happily straddles rock, folk, jazz, and blues

(Continued on right)



—Photo of Ctein

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Join the TECH and lose your security clearance

ART PROGRAM

(Continued from page 1)

the creation of art. Many large corporations are working with artists in the field of Art and Technology to utilize new materials and techniques of science. It is hoped that there are individuals at Tech who are interested in experimenting in this area.

For the students or Faculty members that feel that they wish to break away from technology altogether it is suggested that they sign up for one of the other classes. There are already several people involved in experiments of this nature here at Caltech and the results are remarkably interesting. To be successful, however, the program will need people in various disciplines to be either actively involved in executing works of art or to act as advisors to artists who may have technical problems. The above mentioned aspect of the program will not be a formal class with set class hours, but rather an independent study program. Facilities will be provided in Earhart for larger projects where equipment must be set up for a length of time. The students will be encouraged to use equipment within their own individual disciplines, but there will be no definite limitation on experiments or the equipment with which they will be executed. Interested

persons may also work in teams on projects. Hopefully it will be possible to have a show of Art & Technology work by students and personnel in the near future.

Printmaking & Sculpture

Facilities for printmaking will be provided at Earhart. Mr. van Vuuren hopes to install etching and lithography equipment in one of the studios where students and faculty may learn graphic techniques. This will be taught by part time faculty. Photographic Serigraphy will be taught in the same department. For initial instruction in the above mentioned department there will be set class hours, at a time agreed upon by interested class members. Eventually these students will be allowed to work in this studio at any time. Most of the equipment will be supplied by the Art Department.

The sculpture studio will be equipped and open for the use of students and faculty. There will be an advisor available for this class who will have office hours posted.

Seminars
Seminars will be arranged and well advertised in advance. They will be open to students and faculty. The location of the seminars will depend on the enrollment for the class. Some humanities faculty members have expressed interest in combined efforts with the Art Department in certain seminars of their own. Specialists in

requested eras in the history of art could be obtained for this activity. The program hopes to have the Claremont graduate students in art join Caltech's seminars and discussion groups occasionally. Caltech students will also be able to take field trips to Scripps Art Department.

All members of the Caltech community are invited to participate in this new program. This program is not restricted to students only. Interested individuals should contact Lukas van Vuuren or Chrys Atwood in the Earhart Studio or contact Alan Stein (793-2808) care of Dabney House.

ROOK

The Pasadena Chess Club announces the 22nd Annual San Gabriel Valley Open Tournament. Beginning Friday, October 3, 1969, at 8 p.m. in the Basement Lounge at the Athenaeum at Caltech, the tournaments will continue each Friday night during the year. All entrants should be registered by 7:30 p.m. before the tournament. The fun and games are U. S. Chess Federation Rated and membership in the USCF is required and may be obtained during registration. In addition, entry will cost \$6.00. However, visitors are always welcome on Friday nights as observers. For any further information, call Dr. Lewis at 793-5192 or at his home at 799-7123 or Mr. Cowdrey at 798-4899.

Gameroom

(Continued from page 1)

keys in circulation are keys that have not been turned in by students who have graduated or whose projects have terminated. A most serious contributing factor to the problem is the general practice of opening the doors to anyone who knocks.

Also, if the gameroom keys had a unique structure, it would help to eliminate the illegal duplication of keys which has occurred to some extent in spite of the "do not duplicate" stamp on the keys. Even though most Caltech students usually find it easy to identify a non-student, they usually do not take the responsibility of challenging a person they think is a outsider.

Double Locked

Peter Zassenhaus has suggested that during the summer the gameroom be double locked at night, at least between 11:00 p.m. and 7:00 a.m. Also, during the school year, the security guards will be requested to make periodic checks of the

gameroom and to evict any unauthorized person there. The full cooperation of all Caltech students is urged to keep out all unauthorized people other than their own guests.

In the past, undergrad students have had to pay a 50 cent annual fee and grad students have paid a one dollar annual use fee. There has been a one dollar replacement fee for students reporting lost keys and a two dollar penalty for keys not returned within a month of when the students left Caltech. This revenue has been almost adequate to cover the upkeep of the equipment. Maintenance and building rehabilitation costs have been paid by the Institute. For the past year and a half \$50 per term has been paid to the Gameroom Chairman as an incentive.

The Student Center governing committee decided that the ASCIT BOD should be responsible for appointing the Gameroom Chairman. It is the Gameroom Chairman who makes all decisions regarding repairs and the general operating procedures.

T-4 IS NO MORE!



photo by Dash

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Martin Bernheimer, LA Times Calendar

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Glee Club, Chorale, Quartet



Spring tour to Hawaii

Painless, private tryouts in basement of Fleming House
 Sunday, Sept. 28, 3-6 and 7-8:30 p.m.
 Monday, Sept. 29, 4-6 and 7-8:30 p.m.

WELCOME TO

The Campus Barber Shop

On the north side of Winnett Center
 west of Chandler Dining Hall

THREE BARBERS TO SERVE YOU

The Critical Right Ear

(Continued from left)

The album shows a great deal of care in its production. The selections fit together smoothly. A good balance has been struck between the vocals and the music and a full, honest sound results. Sweet Thursday gives a very relaxed, unstrained performance that speaks of musical maturity and confidence in what they are doing. I think the confidence is well placed and anyone who is interested in the contemporary music scene should keep an eye and an ear on Sweet Thursday.

—James Henry

THE MOTHER OF US ALL: *The Steve Baron Quartet, Tetragrammaton, T-123*

The jacket states, "You may find Steve Baron sneaking up on Paul Simon one day, some day soon." One day; perhaps. Some day soon; no.

It's not that Baron can't match Paul Simon's quality, his originality and expertise are quite apparent throughout the album. But Baron is following a completely different tack from today's popular folk-rock performers. His diverse tunes—from the satiric "Mr. Green" to the lilting "Love Me Laura"—tend at times to be too subservient to those very meaningful lyrics. Sometimes they combine beautifully—as in "I Sang About My Lady." But all too often the lyrics are so intricate and mind grabbing, that they significantly detract from the well-balanced, artful music. Too much attention is needed to ever allow the tunes to

be as catchy as Simon's or Bacharach's. You have to LISTEN.

The style also tends toward the unique and intriguing. It's soft rock, definitely, but at times ("Shadow Man") you're sure it's jazz. These influences are combined and intertwined quite effectively; if the effect is matured it should really be something.

For the discriminating listener, the Steve Baron Quartet presents a thoroughly enjoyable album that is rewarding through repeated playings.

—Mike Stefanko

Notice: Submit reviews to the *California Tech*, Winnett Center. They will be printed at the discretion of the editors.

WILD MAN FISCHER: *An Evening with Wild Man Fischer, Bizarre (Reprise), 2RS6332*

This two record set was produced by Frank Zappa who has apparently been given his own label to avoid any contamination of things on Reprise. Wild Man Fischer merits such handling. Larry Fischer "used to be very shy." He isn't shy anymore. His material is sort of Zappaish but without the polish (or the musical accompaniment) of the Mothers of Invention. Saying he is bad really isn't fair (he was committed to a mental institution twice) but it is safe (at least as safe as Fischer). If you don't use a phonograph to listen to records this may be for you.

—JamesHenry

"Fourth?"

(Hand appears on page 8)

by Robert Geller

Last year's Interhouse Bridge Tournament was won by Fleming's team of Lennie Berman, Bill Delaney, Dave Dobrin, Paul Echelbarger, John Forbes, Bob Geller, Dick Hjelte, and Martin Smith, which defeated Ruddock by 61 international Match-points in a sixteen board playoff. Because of the delay in completing the qualifying round the final was not played until the first day of Finals Week. This slow-down kept Ruddock (the Snake Trophy defenders) from starting their best foursome, Dave Gubman, Mike Abrams, Tom Hedges, and Norm Pendegrift, which had beaten Fleming in a wild qualifying round match, by a score of 68-60. It was quite sportsmanlike of Ruddock to play the match with what they knew was an outclassed team, but the experience of the entire Tournament made it clear that the Tournament must not be permitted to drag on like this in the future.

While the bridge played in the Interhouse Tournament may not always be technically perfect, it is always exciting. Today's hand taken from an Interhouse match between Fleming and Lloyd shows that technically correct bidding is not always rewarded. When Lloyd held the North-South cards, the final contract was five spades after North-South discovered that something was missing. Strange things happened when Fleming held the North-South hands. After South opened one spade, North, who had always wanted to steal a grand slam, jumped to seven spades! West led a heart and Fleming gained fourteen international match-

points, as Bill Delaney speedily gathered in thirteen tricks.

Caltech Bridge Club

The Caltech Bridge Club, an Open Club sanctioned by the American Contract Bridge Club runs regular Wednesday night duplicate games in Clubroom 1 of Winnett. Entry fee is twenty-five cents per player (inflation). These games will be held every Wednesday night at 7:30 starting October 1. Beginners are welcome.

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Wednesday morning.

Phillip Neches

Everybody Burn It!

The recent Vietnam war protest movement has added a new practice to American politics: card burning. Some of the Vietniks, as *Time* has dubbed them, gained notoriety by publicly immolating their Selective Service registration cards. This heated tempers in Congress, which retaliated by making draft-card burning illegal. Rumor still has it that draft cards are being printed on asbestos.

More recently, doctors protesting the stands of the A.M.A. have publicly burned their A.M.A. membership cards. The current leadership of the A.M.A. reacted harshly, branding such actions "irresponsible," and "contributions to air pollution."

Burns Party Card

A Rockefeller Republican, upon hearing of the Knowles incident, publicly burned his party membership card. Democrats seized the opportunity to show how Republicans make air pollution.

Since the highly respected professions of medicine and politics have adopted the card-burning tactic, we may expect to see other protesters use it in the near future.

For example, opponents of Medicare and other "socialistic" programs will burn their Social Security cards, thus forcibly expressing discontent with the "communist" tendencies of our government. Also, since tax records are kept by Social Security number, such action could cripple the IRS. This would appeal to those McKinleyites who still oppose the income tax.

Inflamed Library

Other public documents would follow. Library overdue notices would be openly cremated by an inflamed library-going public. The plight of our highways will be demonstrated by burning drivers' licences. Police brutality will be routed by public burnings of traffic tickets. The bloated Money Establishment will be stunned by a mass burning of bank books and loan contracts.

However, the millenium will have come when husbands, long overburdened by their wives' extravagant spending, will hold a mass cremation of credit cards.

This bodes ill for our great nation. Public documents will not be worth the ashes they were printed on. The economy will collapse. Sanitation will break down as streets become flooded with the remains of stock certificates, registration packets, and discredited credit cards. Congress must act immediately to forestall these evils by making all card-burning illegal.

Graft And Corruption

Do you have the necessary devilish virtues of greed and ego? Do you think your wit is surpassed only by your infinite sexual prowess? Then join the TECH staff and tell the world about it.

It is now 1401

Wednesday afternoon.

It is now 1569

Wednesday afternoon.

It is now

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Monday — Friday

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NEW STUDENT CAMP — 1968



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The tree that became a branch

Once upon a time Marvin Hamilton was willed a hollow tree in an enchanted forest by an uncle who hated him. Marvin wasn't too thrilled with his legacy of leaves and bark, but he made the best of it. Actually he made a bank of it. Business was slow, and Marvin decided that the tree needed an image, a name people would trust. "My tree needs an image, a name people will trust," said Marvin to his mother one day.

"Why not name it after me, Marvin? It's the least you could do. After all I am your mother. If you only knew the heartbreak you..." "Okay, Mom. I'll name it after you. What's your name?" (He knew her only as Mom.)

"Security Pacific Hamilton," she answered, smiling broadly.

So he named the tree Security Pacific Bank. Business boomed. All the forest elves and dwarves came in after every rain to deposit their crocks of gold. Marvin's bank grew and grew, until today Security Pacific Bank is one of the largest full-service banking systems in the nation, even though the first branch was only a tree.

Now the Bank is generally found in large concrete buildings, but the elves and dwarves still have accounts there. It's not surprising. Security Pacific Bank always welcomes even small depositors.

SECURITY PACIFIC BANK



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Editors' notice: We regret to announce that there will not be an issue of the California Tech this week. This announcement is made in order to fill this space. Thanks.

THE MUSEUM
103 SO. FAIR OAKS
PASADENA



THE MUSEUM is an international folk dance cafe in Pasadena that encourages the pleasures of ethnic dance and music. The most esoteric requests can be filled, while the more common joys are sensitively provided for: meeting friends, playing chess or backgammon in the patio, or simply mending frayed nerve ends over a cup of coffee. The mood is casual, the people are warm and enthusiastic.

an international folk dance cafe
open Tues. thru Sun. 8:00 p.m.

792-5439

Sat. 8:00 — Greek Dance Class

Cross-Countrymen

Being Shod

by Martin T. Smith

The cross country team is looking forward to their season with hopes of improving on their record of last year, when they finished fifth in the SCIAC and seventh in the NAIA District. With four returning lettermen and two or three tough freshman prospects, the team hopes to finish more closely bunched, a crucial factor in important meets with many teams.

Coach Bert La Brucherie was pleased Tuesday after a pace workout for his runners on the Tournament Park track as the runners crawled for the locker room to escape the heat. The Big Worries seemed to be getting his runners shod and the care of a few minor injuries. Also surely important on the coaches mind must have been whether the team could replace last year's team leader, Lane Mason, who was lost to graduation.

Junior Tim Tardiff looked especially strong, with Ratchford Higgins and frosh Gary Pope also running quite well.

The team opens its season on Monday with a "double-dual" meet against Biola and the Los Angeles Police. The first conference meet is October 3 at Whittier.

Water Polo:

Potential vs. Endurance

by Mike Stefanko

The best evaluation of this year's water polo team is potential. The team began practicing back on the fifteenth of September. However, at the present time there are only seven experienced men on the squad. While teamwork and ability have crystallized over the past year, making this year's seven very capable, the total lack of depth spells certain disaster for the coming season. Without any reserves, every foul hurts and hurts bad. I expect that there will be many a fourth quarter disintegration, where well-earned leads evaporate in the exhaustion forced upon the team with no reserves. Behind the training and practice guided by Coaches Lawlor Reck and Ed Evans, the team will be able to face good competition; whether it will be able to withstand it or not still remains to be seen.

Check the schedules, your support at home games could help tip the balance to our favor this year.

"FOURTH?"

(continued)

North

S A K 6 4
H A K Q 10 7 5
D 8 3 2
C - - -

West

S 7
H J 4 2
D K 10 9 7 4
C Q 9 7 3

East

S Q 2
H 9 6 3
D A J 5
C J 8 5 4 2

South

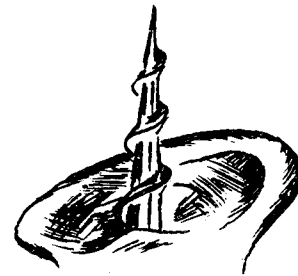
S J 10 9 8 5 3
H 8
D Q 6
C A K 10 6

E-W vulnerable

The bidding:

South	West	North	East
1 S	Pass	7 S	Pass
Pass	Pass		

Opening lead: two of hearts



WE FIVE

(IDM, EAS, JAH, WBF, BWB)



See your name

in print

JOIN THE

(Be a proofreader and see it spelled right)

TECH STAFF

NOTICE

Under the new bill which is being considered by Governor Reagan, stating that Topless - Semi Nudity - Complete Nudity entertainment will be left up to the adult people of the community, The HI LIFE (1758 E. Colorado) is now conducting a poll to find out what the adult people of Pasadena want to see as entertainment.

We would like you to express your opinion by voting at our Private Ballot Box at the Hi Life. Then we will be able to give you the type of entertainment you want without offending anyone.

All Three Types of Entertainment are being shown daily to help you decide the type of entertainment you want, thank you.

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