Ray Owen Fills New Deanship

President Harold Brown announced last fall several major administrative changes affecting students. Among these were the creation of a new post, Vice-President for Student Affairs, and personnel changes in a number of existing positions.

Professor Ray Owen of the biology department has been appointed to the new position and also as Dean of Students. He replaced Professor James Morgan in the latter position, who resigned the post to assume other academic responsibilities.

The appointments become effective September 1.

As part of the administrative changes, the Department of Student Relations will now report to the new Vice-President instead of directly to President Brown. The Master of Student Houses will also report to the Vice-President.

Hockey Defeats Nervous Oxy

On a recent Sunday night when team captain Bob Gardner asked his players if they thought they would be able to demolish Occidental, they responded in unison: "It would not be dificult, mein Fuhrer." The Occidental players were very nervous about playing the Caltech champions. During the pregame warmups one Oxy player was heard to mutter to another, "Hee on Caltech's home ice I feel as if I hadn't passed water in days."

Cliff Brown, Caltech's not unshabbymannered goalkeeper, was in his usual drunken stupor. "Go get 'em" he shouted to his teammates, "we have to win this one to clinch the title."

"We already have the title, Cliff. We won it last Tuesday," a fan yelled down.

"You mean we don't have to win it?" puzzled Cliff, and then added, "Well in that case I guess we should flaunt it while we've got it." Which is precisely what the team did.

Caltech won the game 7 to 3 with goals by Evans, Yates, Harris (2), Sweeney, Gates and Dobkin. The score is not a valid indication of how tight the game actually was. If it were not for the help of Occidental's still-ranging mind No. 81, Altuvilla, who amassed 5 penalties for a total of 13 minutes, the score might have been more equal.

Phil Wood was the first Techer to offer his thanks to 81 and the other academic responsibilities. After the referees tried to pull the two apart, Wood punched madly away, Wood screamed, "Don't stop me now, I've got to where I like it." The two were finally pulled apart, after which Altuvilla lost control of his sphincter and voided himself.

Ray Owen Fills New Deanship

The Burger King Corporation announced the awarding of a $3,000 Scholarship grant to the California Institute of Technology. The scholarship, named in honor of senior electrical engineering student, John Denker, was to be presented during a brief ceremony at the Los Angeles Press Club to Gene Wilson, of the Institute Office of Development by Tony Rolland, special projects director for the Burger King Corp.

Denker and several of his friends from Page House, recently called local and national attention to a unique grant. They entered a local sweepstakes, sponsored by another national hamburger chain, using a computer card, will receive free fries or onion rings with purchase of a sandwich of drink. The offer is limited however, to one per person per period, ending April 12. During the promotion, customers, who bring a folded, stapled or mutilated computer card, will receive free French fries or onion rings with purchase of a sandwich of drink. The offer is limited however, to one per person per period, ending April 12.

The Burger King Corporation has 1,400 restaurant outlets throughout the United States, with headquarters in Miami.

A sign-up sheet will be posted on Flora's door in Winnett for the following ASCIT appointment offices: Business Managers for Big T; The California Tech; Totem; Elections Committee Chairman; Coffeehouse managers; Editors for Big T; Little T; Totem; Game-room chairman; Members of the following committees: Educational Policy; Executive Committee; Activities. Remember, if you don't sign up, whatever goes wrong for the next year will be your fault.

Senior Pictures

So far 35 seniors have turned in one picture each, and 2 seniors have turned in two pictures each. Unless the rest of the class turns in pictures by Friday 4:18-75, they won't be in the Big T. (Andridol and Raddell better decide WHICH of their pictures they want used). Turn in your pictures to Flora, 105 Winnett.

"Sighted Cowan. Sank Same." This Saturday night, at 7:30 p.m., to the wonderment and amazement of very few, there will be a naval miniature game in Dabney Hall Lounge. Join us in our search for glory as we rewrite the annals of naval history, not necessarily for the better. Take out your hostilities by firing a 5.9 inch gun at someone. Torpedo your friends and neighbors. Be different. But remember, when you're out on the sea at night, wear white!

Support Your Local Vampire

Signed up now for the Caltech Blood Bank Drive Thursday, April 17 and Friday, April 18, 11:00 a.m. to 3:30 p.m. in Dabney Hall Lounge.

If you have any questions concerning the Caltech Blood Bank, please call Vivian Walker, Extension 2374.

Moneygrubbers

Unite!

Organizations seeking ASCIT funds, should contact ASCIT Treasurer, 12 Fleming. (Or else they won't get any money!)

See Rea

For Keys

A lock has been installed on the student garage. Keys are now available to students at a cost of $1.00 each. Those interested in obtaining keys may do so by contacting Ed Res, in 213 Page.

Continued on Page Seven
The Californian Tech

The Fred Logs

Treasure in Sierra Madres
(by Fred)

A week after the previous expedition we were back at the ruins to test our fortun...
Centralization

New System for Millikan

When the concept of centralizing Millikan Library was first considered years ago, a centralized circulation area was planned for the first floor. A planning document stated: “The user may move freely among the departmental collections. When he is ready to depart, the only formality he need observe is to check out at the central desk the books he wishes to borrow.”

For various reasons these plans were not implemented when the Millikan Library was first opened, except for the installation of two large checkout counters on the first floor. After much current reconsideration and some remodeling, the Millikan Library began centralized circulation on April 1, 1975.

Centralized circulation appears to be the best method of making sure that library materials will be available and accessible to authorized library users. Inventories of departmental collections. When the Millikan Library was first opened, except for the installation of two large checkout counters on the first floor. After much current reconsideration and some remodeling, the Millikan Library began centralized circulation on April 1, 1975.

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The Library will maintain central circulation and closer exit control,” said Johanna Tallman, Director of Libraries, in announcing this new procedure. “We hope that Caltech users will be the best method of making sure that library materials will be available and accessible to authorized library users. Inventories of departmental collections. When the Millikan Library was first opened, except for the installation of two large checkout counters on the first floor. After much current reconsideration and some remodeling, the Millikan Library began centralized circulation on April 1, 1975.

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Welcome to the last segment of the game. In this episode we are faced with the constant entertainment of the painted senile. Now although everything else pales in comparison, if you need diversion from the seniors, or are a senior seeking diversion, there are other options for entertainment.

There is a profusion of options, too. It seems that things have actually changed over vacation. With this (and beloved brevity) in mind let me just run down the list. There are two ballets in town, the Pennsylvania and our own Los Angeles. Pennsylvania is a good troupe, and Los Angeles—under John Clifford—is growing. I want to mention three productions new to L.A., also. At the Huntington Hartford you can see Glenda Jackson in the Royal Shakespeare Company’s production of Ibsen’s Headed Gaher. Opening at the Shubert is Edward Albee’s Seaside. Ring Around the Moon (a cousin of A Little Night Music) is at the Ahmanson with its stars, Michael York and Glynis Johns.

In fact, there are even major new films to be seen (Those of you prone to the north-east winds will note the lack of any mention of Kierkegaard. Even I have limits). The long awaited Four Musketeers has proven to be worth every bit of the wait. It’s a dazzling piece, at times bringing

Ken Russell’s Tom Jones is at limited availability, but brave the liltin anyway. Russell is a master of image, as evidenced in this equally masterful synthesis of mystical experience and the absurd. All this in spite of the fact that they couldn’t sign Mick Jagger as the Acid Queen.

The campus is hopping, too. Tonight there is a double in Beckman (standing room only) and Beyond the Valley of the Dolls in Baxter. Tomorrow Cinematch will show the Seven Samurai a classic of some three and one half hour length. Sunday the current series of Daley Lounge Concerts will conclude with the Los Angeles Group for Contemporary Music. One of the contemporary com­

posers to be represented is Charles Wuorinen, whose work we’ll highlight the Oja Festival this year.

We turn to lectures Monday with a Watson Lecture, this one featuring Dr. Bruce Murray speaking on Science, Transience and Miracles. With the growth of technology there has lately been a corresponding growth of the "quasi-sciences." What does it all mean? If an empathic extraterrestrial riddles your mind with images of archetypal daemons, all will want to know, too. Elsewhere in this journalistic fragment you should be able to read about John C. Lilly’s Lecture on The Science of Inner

ACTOR In Angel over Sl-36 full year war­

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by Dick Beatty

On May 1 to 3 Caltech will host the annual Intercollegiate Musical Council Spring Seminar. Music educators from all over the United States will be on campus for such seminars as "The Nature and Care of the Male Vocal Instrument."

Six glee clubs from other colleges will be at Tech. The United States Army Chorus will give a concert Friday night in Beckman Auditorium; Saturday night clubs will be from UCLA, UC Santa Barbara, Cal State LA, Cal Poly San Luis Obispo, and Loyola will join our own Caltech glee club for the Big Sing in Beckman.

At this already half-booked concert each club will present a short program of its finest repertoire, concluding with all six choruses (over 350 voices) on stage for the Tarentella by Randall Thompson. This number will be conducted by Dr. Howard Swan, one of the world's renowned collegiate choral directors.

This year's seminar is the first time in IMC history to be hosted by a school with no music department. All the preparatory work is being done by Dr. Olaf Froehlich, Director of Choral Music at Tech with students members of campus choral groups. While no academic credit is given at Tech for musical activities, all of the visiting clubs have some course credit arrangements; nevertheless, our own Glee Club holds its own against any chorus in the county-a tribute to the ability of motivated Tech students.

Tickets for the Friday (Arny Chorus) and Saturday (Big Sing) concerts are available from the Ticket Office now. These shows will be the finest collegiate choral productions in California for a long time—anyone interested should get tickets soon.

FULL CLOSE OUT SALE
Pasadena Centennial Medallions

SAVE UP TO 50%
Offer good only while supply lasts

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COLLECTOR'S EDITION

by James Llewellyn

Imagine for a moment how it would be if you were totally deaf. Keeping in touch with reality, already a difficult problem, could become impossible. This is a problem faced by the deaf in a society which uses such instruments as telephones and television, two sound-dependent communications devices.

In an effort to aid the deaf to cope with life, two young engineers have formed a company, called APh Technical Consulting, that specializes in small scale technical projects. Glenn Hightower, 25 years old in Ear, with a master's degree in EE from Caltech, and John Denker, 20 and a senior in EE, founded their company in September of 1973.

Since that time they have undertaken such consulting jobs as computer programming and designing (and building) electronic systems for various businesses. In Hightower's words, "APh was conceived as a way of matching student talent with the short-term technical needs of business. Many companies have small, specialized tasks that need to be done and that they are not equipped to handle. We can supply the talent."

Money from such consultation jobs is used to help finance several current projects designed to help deaf persons. These range from a series of devices to help deaf people develop their voice quality (it is rather difficult to sound "right" when you can't even hear your own voice), to a system of signalling when the doorbell or telephone rings, or an alarm goes off by blinking every light in the house if it is on, and on it's off.

A major project is a tele­printer which allows deaf persons to communicate by telephone with other persons having a similar device.

A system of such devices already exists, with approximately 10,000 families having them across the nation. But most of these are old, surplus models which have become obsolete. One defect is the noise that they create, which can be bothersome to non-deaf people.

APh's new teleprinter will eliminate the noise and incorporate several new features. Output from the new device will be a on a three-track strip of paper with no breaks between words (skipping to the next line if the last word won't fit). Ongoing messages are typed in black and incoming are in red. A prototype model would soon be finished. It will weigh 16 pounds and be easily portable, another feature lacking in the older types. The price is expected to be moderately low. As Hightower explained, "Deaf people as a class are not wealthy. We want to build things for them at a cost they can afford."

The original impetus for APh's interest in machinery for the deaf was given by Hightower's orthodontist, Dr. James C. Marners, who has been deaf since childhood. Dr. Marners has continued to aid APh by giving them advice, and ideas which will help deaf persons.

"We take our pick of these ideas and work on those we want to," Hightower said. "We're pretty much inspired to work on this stuff for awhile because we can think we may make a significant contribution to helping solve some of the communications problems of the deaf."

More News Briefs

Teroidal Equations

There will be a meeting of the Math Club this Tuesday, April 8 in the lounge, 3rd floor Sloan at 7:30 p.m. Joe Carroll will give a talk on "Algebraic Topology."

"Of The Persons, By The Persons..."

All undergraduate women interested in planning and implementing an on-going organization of Caltech's undergraduate women (run by and supported by the Institute), please come to an organizational meeting, Thursday, April 10, from 7:30-9 p.m. in the Health Center Lounge. Any meeting suggestions and ideas welcomed. Contact Mary McKenzie, 795-1978 or Beverly Manley, a2394.

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Techers Paper McDonalds

What can you do with 1.8 million 3" x 5" pieces of paper? You can stack them so tall as a 30 story building... You can stretch them 86 miles end-to-end... You can cover 2 football fields... You can put diapers on all the pidgeons in Los Angeles... or you can print your name, address and enter the McDonald's Datsun Z Sweepstakes.

Believing that the pidgeons would not be appreciative, and that grass doesn't grow under paper, we opted for the contest, and...

Friday, March 14, 11:30 P.M.

Screams of "NO! NO! NO! You have Washington facing the wrong way!" sound coming from under a certain Page House president's door. Steve Klein comes up clutching a ragged piece of paper with the words "OFFICIAL ENTRY BLANK, THANKS MORE FREE AND A NEW DATSUN Z SWEETSTAKE" emblazoned across the front and a wealth of tiny print engraved upon the back.

"My god, print your name, address, and zip code on a 3" x 5" piece of paper," he was heard to utter, "Enter as many times as you wish. Deposit entries at a participating McDonald's -- the contest closes next Sunday... To the line printer!"

Saturday, March 15

5 cars, 5 years of groceries at $250 per month, over 1800 McDonald's $5 gift certificates--546k worth of goodies being offered in the sweepstakes. A committee of five was formed to plan and execute the R.F. Strange cracks and groans emanate from beneath an open door... Eavesdropping on the central committee we hear:

"100,000 entries?" asks Klein. "No," says Lou Schiffer. "One million entries."

"That should give us 50% of the prizes," calculates Barry Megdal.

"We'll have to make over 1000 slices on a large paper cutter," states Dave Novikoff.

"I can cut them in one day," claims Greg Denker of Oxy.

Fadeout.

Sunday, March 16

Last ditch effort to salvage GPA's.

Monday, March 17, 8:00 P.M.
The race is on. Can our courageous turkey students manage to print, cut, and distribute over 1 million entries--52 boxes of line printer paper--before the deadline? The program is written and the first boxes begin to roll off the 370's line printer no. 1. Job "Arches" is underway. Several operators and three nights of work later the printing is finished. 1:00 A.M. on the morning of the twentieth the last box burps up the exhausted machine.

Meanwhile, at the Occidental College print shop... the agony. Changing 140.00 papers of paper into all those cute 3" x 5" entries. The committee and its cohorts labor on, though, and finally, at 9:41 P.M. the same night of the twentieth, the last entry is cut.

Friday, March 21

The world erupts. John Denker, our neighborhood glory-monger has spilled the beans. The Times, the Pasadena Star News, KKDJ radio, channels 4, 7, and 2 descend upon your harried heroes. The salvageable portion of the day is spent in dividing the entries among the four areas to be blanketed, and from there, among the eight drivers who will effect the deliveries. 104 McDonald's around Los Angeles, Orange, Riverside, and San Bernardino counties are planned for. Our initial estimate--50% of the total entries.

Saturday, March 22

A squeal of brakes. Sweating bodies explode from the rolling vehicle, postively cradling half a box of entries, and quickly scurry through the doors with the golden arches, stuff the 10,000 entries through the slot in the official box (average time 6 minutes) and then tune off to hit the next in their lineup of targets.

Continued on Page Eight

STEVE KLEIN submits his applications for the John S. Denker Memorial Scholarship.

Photo by Floyd Clark

BEER DRINKER'S QUICK QUIZ

Just to kill a minute or two, why don't you match up your own beer-drinking habits and preferences against those of the Budweiser Bookmaster. While you're taking the test, it might be a good idea to cover up the answers with a cold can or two of the King of Beers.

1. When you do use a glass, do you ease the beer down the side? □ Or do you pour it down the middle to get a nice head of foam? □

2. How much foam do you like on a glass of draught beer? None at all □ One inch □ One and a half □ Two inches □

3. Do you like to drink your beer in little sips? □ Swallows? □ Something in between? □

4. Which do you like best? □ Canned beer □ Bottled beer □ Draught beer□

5. Which beer is brewed by "exclusive Beechwood Ageing with natural carbonation to produce a better taste and a smoother, more drinkable beer?" Budweiser □ Some other brand □

6. When you say "Budweiser," do you say it... □... eagerly? □... loudly? □... gladly? □..."
**News Briefs**

**Tax Day Elections**

Nominations for ASCET Director of Social Activities will close next Monday at noon, to be followed by an election eight days later, Tuesday, April 15.

**Local Girl Makes Good**

The Long Beach Symphony, conducted by Alberto Bolet, will be performing at Lakewood High School, in Lakewood (look it up) on April 12. What makes this of interest in these pages is the performance of Kathleen Kong (of Redwood House) with that orchestra.

Kathleen, winner of the 1973 Young Artist Competition, will be performing Beethoven's Em­peror Concerto, Op. 73, in E Flat Major. Student tickets are available for $1.50 from the Long Beach Symphony Association. For more ticket information, call 436-7953.

**Windblown Rag**

Sunday, April 6 at 2:00 p.m., the wind will blow, the rain will fall, the stage will feature ragtime by Joplin and suites by Gustav Holst and Ralph Vaughan Williams (for a per­formance in Dabney Gardens (in the Lounge if the weather requires). Appearing on the same program will be the Caltech Jazz Band and the premiere of original compositions by segments of the sixty-foot microcanonical brass ensemble.

**Pampered Slaves?**

Were American slaves badly exploited and brutalized? Or were they wellfed, wellhoused, bourgeoisized skilled workers? For information on H 161, "The Economics of Slavery", which will concentrate on the highly controversial recent book, Time on the Cross (by Lance Davis or Morgan Kauser).

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**NOW OPEN AT OUR NEW LOCATION**

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DAILY 11 a.m. to 1 a.m.
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X Rated
No One Under 18
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AIR CONDITIONED
since her only claim to such a field is her Dallas accent. Her music occasionally sounds like something Linda Ronstadt might sing, and this may be another contributing factor to sounding "country," since some people seem to confuse Ronstadt with country.

Harriet Schock is very amply backed up by Don Whaley (I probably mispronounced that) on bass and David Carr on whichever keyboard Ms Schock isn't playing herself.

One of the greatest moments of the show is a song by Harriet written as a reply to "I'm a Woman" (a song written by two men, by the way, called "I'm So Macho"). Anything that does that good a job of insulting the Macho syndrome should be all over club bad.

Appearing with Harriet Schock on this show are Peter Alsp and George McKehey. Peter Alsp is an insane musician who plays strange things on guitar, harmonica and kazoo. Songs such as "Howl to the Moon", Bob Lincoln" and "Junk Food Junkie" leave the audience collapsed in laughter. His next album, such as "Sandankan Cemetery", are done well enough to indicate that he has musical talent as well as humor. He will be appearing on campus here on April 25, as one of the Y noon concerts, so if you miss him at the Ice House, you will have another chance.

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**RED Rallye Classic**

The Caltech Clean Air Car Project will enter two cars in the Intercalifornia Reduced Emiss­ions Devices Rallye on April 8–13. This is the four R.E. Rallye from (U.C.) Davis to Los Angeles. The cars are called "NoM" (E5) was taught by the CACP although one section of the driving has dried up for research and failures in technology.

The goal of the CACP is to find means of air pollution control from automobiles capable of rapid implementation. Fund­ ing has dried up for research although one section of the current engineering lab course (ES) was taught by the CACP last term, which provided some general emission control from automobiles capable of rapid implementation.

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Friday, April 13, 1975

THE CALIFORNIA TECH

SF Highlights

Continued from Page Two

—original screen and version scripts. Ettison discusses both and the making of one into the other.

April 15—New Worlds For Sale: Building Novels: Building Your Very Eyes.

Paul Anderson, Hal Clement, Larry Niven, and Frederik Pohl have designed a new planet: Robert Silverberg, Frank Herbert, and John T. Edel. Tom M. Ditch will create stories involving this planet with an hour's preparation.

May 22—Sui Generis: Two Nonpareil Visionaries Read Their Works.

Fritz Leiber and Roger Zelazny reading from their own works, along with a specially commissioned light show.

April 19—Look What They Did To My Dream.

Filming science fiction, with Michael Crichton, Richard Matheson, and others. Also, John Frankenstein's film Seconds.

May 6—Changelings: New Young Writers Get It On.

The newer writers: George Alec Clippers, Edward Bryant, Vonda K. McIntyre, Jack Dann, Gardner Dozois, and Lisa Tuttle, in a free-wheeling presentation.

May 13—SF's Peculiar Inquisitors.


Realizing our danger, there being still at least forty orcs attacking, I hurriedly pulled out my new scroll and summoned the Invisible Stalker. The Stalker materialized beside me and I ordered him to get to the front and hold off all the orcs if we could beat a retreat. As he worked his way forward the fury of the battle raged on. At last I threw a sleep spell that Engrossed in the battle he hardly noticed after the dwarf beside him was cut down. Behind Hugh was Barry and behind the dwarf was an elf. As the orcs surged around Hugh's left flank he began to reestablish his position and began to retreat. One of the orcs struck him a bloody blow. Then the elf fell over dead and the orcs began to attack from the side. Hugh hit back and a sword blow cut through Harry's armor nearly killing him. He staggered but hung on bravely. The man behind the fallen elf also held and Hugh began to fall back to our new line.

WHAT TO SEE

If you're interested in exploring the power and potential of the universe, you'll want to check out the following events:

1. The Invisible Stalker - A fascinating new character in the world of SF, the Invisible Stalker is a powerful figure whose fighting abilities of this new wave can be easily seen in action. The Invisible Stalker is a powerful figure who is able to move and act unseen, making him a formidable opponent for any orc.

2. The New Scrolls - The new scrolls are a key element in the world of SF, allowing characters to gain new abilities and powers. The Invisible Stalker is able to use these scrolls to gain new powers and abilities.

3. The Invisible Stalker's Powers - The Invisible Stalker is able to use his powers to create illusions, making him appear invisible to his opponents. This ability allows him to move around the battlefield unnoticed, and to attack his opponents without warning.

The Invisible Stalker is a key character in the world of SF, and his powers and abilities are a key element in the world's fighting culture. If you're interested in exploring the power and potential of the universe, the Invisible Stalker is a must-see character.