Timeless Art Shown at Baxter

by Pat Frantz

In an effort to promote the understanding of art, encourage Caltech students to visit, the Baxter Art Gallery is sponsoring a special student art exhibit entitled "Fund Projects," running through February 21. The reception will be from 4:00 pm to 6:00 pm and in honor of the exhibit "Ryan Rogers: Timepieces," currently running through February 26. Mr. Rogers will be on hand for the reception to discuss his work. He will also be showing some of his work later that night in Beckman labs (8:00 start for the one, and it's also free). Rogers has a PhD in chemical engineering from MIT and a BA in art from Berkeley; he currently lives and works in Berkeley, and will be visiting San Francisco State. His art combines beauty with technology to form an aesthetic feel of modern life.

The time will be beer and refreshments available at the reception; in addition, some art talks will be given. Any private school student may attend that presenting the opportunity of meeting new and interesting people.

Cinematech!

by Jon Zingman

This Saturday, Cinematech will return after a two term hiatus. Our first program will be a future two Alfred Hitchcock films, 'Frenzy' and 'Notorious.' Two favorites in our program, 'Frenzy,' a busy woman in prime of life fall victim of London's 'Necktie Murders.' Hitchcock creates a suspense-filled thriller, set in the London locations of Bow street, Old Bailey Court and Newgate town.

Ingrid Bergman and Cary Grant, as two ideal agents who must stop a man of ex-Nazis in Brazil. The film is in honor of the exhibit 'The Invasions,' which the Baxter Art Gallery is currently running through February 21.

If you're interested in the prime of life fall victim of London's 'Necktie Murders,' Hitchcock creates a suspense-filled thriller, set in the London locations of Bow street, Old Bailey Court and Newgate town.

"Cartesian Clock," "Linear Space-Time" sculpture and the "Time of Your Life" clock.

For Michael Smith and Wendy Brodhead, the Director and Assistant Director of Baxter Art Gallery, this reception is an attempt to encourage student participation in the utilization of the gallery. When asked if this reception marked the beginning of a new approach, Ms Brodhead replied no, not really; in the past there have been films and a noon series of talks on Wednesdays.

However, she said, they did want to have a function especially for students, one that would introduce them to the gallery. "This exhibit seemed perfect for that," she said. "It combines art and technology, and thus should appeal to the Caltech student.

Smith and Brodhead are anxious to have the gallery play a more active role in students' lives. Ms Brodhead points out that a little community can function at a low-cost, low-pressure possibility for dating couples.

The gallery is less sure of its future plans for students. The next exhibit will be costly and difficult to arrange. The gallery has an expense of $2.00 for the public, $1.00 for the students.

Invasion of the Body Snatchers leads off the program. Mysterious crashes come over people in a small town, leaving them devoid of life. The prime of life fall victim of London's 'Necktie Murders,' Hitchcock creates a suspense-filled thriller, set in the London locations of Bow street, Old Bailey Court and Newgate town.

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I saw a petition in Lloyd House the other day which said something about Caltech students which is not always understood by faculty: that most of us are interested in more than just science courses. Specifically, the petition was concerned with adding art classes to the Caltech curriculum. True, the Institute does have some art classes, but the selection is limited so that people have been taking art courses at other colleges—and having trouble getting credit for them. A friend of mine has been able to get non-specific Institute credit for his off-campus course but not Humanities credit, because in his course he's actually painting, not studying art history or philosophy . . . or something.

Best of luck to that petition. It will have some credibility problems, since the idea has been tried before and apparently too many people were glad of the opportunity but felt too busy to "waste their time on non-essential courses." I hope that this time it's understood that we're serious about wanting these kinds of courses.

That Caltech students are serious about music is emphasized by its lack of academic any year in Caltech's history. With the Orchestra, a popular group, one of them being that it is, indeed, unofficial. Although the five groups mentioned above are all directed by professionals in the music field, most of them hold faculty positions in other universities, not one of them is officially on the faculty and, hence, their influence on Caltech's total educational program remains extracurricular.

Like art in general, music seems to take, if not last place, that the rip-off has happened, not to "somebody else" this time, but to you. When the thief enters a room, he is working on a definite time limit. You can help prevent him from trying for your bike.

Finally, I'm sure that you've all heard stirring lectures from Erik Sarris & Co. on the various far-reaching benefits of the honor system; I'm also sure that you've run into a few of the disadvantages by now. One of the biggest disadvantages is that being able to trust every one of 800 people on the campus makes it very easy to become lax with respect to off-campus people.

Surely, not all—or even a sizeable percentage—of the off-campus visitors have come to Tech to relieve you of your money or property, but as last month's Security report shows, about ten of them did. Most of these thefts, though, involved bicycles, which is really a shame because bicycle thefts are actually very easy to prevent, especially in the house situation. In an alley of six people, the chances are that if the thief is spotted, the bicycle he's carrying will be recognized as not being his. Thus, when the thief enters a room, he is working on a definite time limit and anything which impedes his speedy operation will help prevent him from trying for your bike.

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Thucan by P.M.

Happy Birthday, Janee!

For the month of February, free root beer float with dinner for ALL Caltech students

(Remember: get a 20% discount by buying Caltech cards.)
Swimmers Keep on Stroking

Despite the warm, sunny weather of last Saturday, both the men's and women's swim team were unable to overcome the Occidental swimmers. Our six men were defeated 29 to 80, overwhelmed by the herd of 17 males Oxy had. The women fared somewhat better, trailing by between five and ten points through most of their events. They lost the meet in the last relay when a first place to Oxy (for seven points) made the final score 47 to 59.

Hillel(s)

The Caltech and PCC Hillels will get together once again on Friday, Feb. 23 at 7 pm. They will have a Shabbat service and a potluck dairy meal in the Y lounge. Please RSVP to Dorraine at 447-5800, or Len at 792-9264.

If you're a junior or senior majoring in sciences like math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as $650 a month right through your senior year. Then after 16 weeks of Officer Candidate School, you'll get an additional year of advanced technical education. This would cost thousands in a civilian school, but in the Navy, we pay you.

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Who’s on First?

by Perry Walker

This year’s baseball team is one of the better Caltech teams of the decade. Caltech boasts a defensive play at most positions, strong hitting, and a pitching staff that needs just one or two starting pitcher.

Heading the squad is All-distric outfielder, Steve Eckman. The Ricketts speedster is the starting centerfielder, and bi the team in almost every hitting category last year. Leading out the outfield are Bill Newman in left field and another speed demon, Mike Lach in right. Sluggers Jim Jacobs and Fred Crimi play third base and shortstop respectively. Trey Thomason is the second baseman, and freshman Bobby Buck is the starter at first base. This solid infield was dealt a major blow last Saturday when Fred Crimi broke his thumb via a line drive. John Zacharias and Jamie Abbot, Alphonse Sterling, and Ed Preisler complete the battery as the two catchers respectively.

The pitching staff consists of John Miller and Eckman. This set is hardpressed to pitch in free games a week including doubleheaders every Saturday. Joe Toner and Mark Fortunato complete the battery as the two pitchers.

Rounding out the squad are Kurt Stevens, Eric Klampe, Eric Thomas and Carrie Cummings (statistician). Coach Ed Preisler says that with one or two starting pitchers, his squad could only surpass last year’s 6-20 record.

Arp Speaks on Quasars

by Donald R. Benton

On Wednesday, February 14, Dr. Halton C. Arp, staff member of the Hale Observatories, descended from the legendary heights to impart some of his knowledge to an interested audience assembled under the patronage of the Caltech Y. The main topic of the lecture was the observed relation (actual or imaginary) between certain peculiar galaxies and quasars. Numerous slides were presented to support the opinion that the redshifts of many quasars have nothing to do with their velocities relative to the Earth. In each example given, a jet emanating from a peculiar galaxy points in the general direction of one or more quasars in the vicinity. These quasars often have similar redshifts. Dr. Arp believes that these quasars have been Somehow ejected from the galaxy. If this sounds different from what you have heard on the subject, it probably is. Dr. Arp himself describes his viewpoints as being “heretical”. The majority of those in the know are of the opinion that these quasars are redshifted by their velocities and actually lie millions of parsecs farther away. However, the good doctor says that the probability is too low for such alignments to be only random. He then concludes that these redshifts are not caused by velocity and, by other reasoning, are not caused by gravitational fields. Dr. Arp offered no explanation for the large redshifts of these quasars. The lecture was part of the Update in the vicinity. The largest selection of hard aluminum MEASURING TOOLS in the country!

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Antenna Design

Laser Development

Radar Design

Computer Software

Assembly Methods

Computer-aided Design

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February 22-23

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Friday, February 16, 1979

THE CALIFORNIA TECH

Page Five
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Well, I did promise the new editors some copy for this week. Oh!!! my typewriter ribbon is drying. I wonder if the Tech is springing for another one. (Typist's note: if it means my first having to read this column typed in pink ink on white paper anymore, the Tech had better spring for a ribbon too!) If they just find the two articles that are lost somewhere in the Tech office, I wouldn't have this problem. At least I could get more sleep tonight.

I don't know about the rest of you, but it's getting to be so doggone between letters that I'm thinking of having the spiderwebs in the mailbox bronzed. It's been lonely since the spider left. I would say something about the stuff? That's somewhat like thinking of having the spiderwebs in the mailbox bronzed. It's been lonely since the spider left.

I'm going to try and make 'em up for me. You will notice that we have no "Dear Abby" column this week. (Your editor is not a crook...dear.) Would you believe that they also want me to write serious stuff? That's somewhat like handing a kid a stick of dynamite and a hammer and telling him to go and play in the living room. Personally, I wouldn't care, but I don't think that the Tech carries enough liability insurance. Not that I'd be anything less than a gentleman but some people might feel that being interviewed or reviewed by yours truly was like being welcomed to a new town by a Welcome Wagon driven by the village idiot. Besides, I like what I'm doing. This column doesn't pretend to be any more than unreal and you can't tell the mistakes from the garbage. If I started writing real stuff I might have to start worrying about them.

But anyway, (where have I seen that before?) I suppose I have to do a little work, so...I was at the Harlan Ellison lecture tonight. I know that quite a few of you weren't. That's too bad. He was excellent and I'm sorry to say that we were a rather wimpy audience. Granted, MIT has a larger talent pool to draw upon, but I still think that we could have come up with a better audience. We surely could have come up with a larger one as Baxter was only about 70-80% full. But regardless of all that, he is certainly worth having again. That is, if we can con him into coming back. Maybe if he gets poor and needs the money again...

As for his performance, what can I say about a guy whose first statement is about how his pants got wet? It was one of the most interesting talks that I've attended in a long time.

One more thing and I'll quit for this week. Related congrats and wishes of luck to all our newly elected officers. Now that you've all recovered from sogginess, I suggest that you sit back and take it easy until something hits the fan. Ah, how little Ye summer of what Ye were in for. Of course, we never said that it would be easy; we just said that the pay was low. Enough.

-Duncan G. Mahoney

Loan Fund for Women in Engineering

Engineering is the most promising career path for women, according to one recent employer survey. Opportunities are a result of projected overall employment growth in the field, plus a shortage of women qualified for the jobs available. Women in undergraduate or graduate engineering studies can get financial assistance from the Business and Professional Women's Foundation through a special loan fund expected to total more than $80,000 this year. Available to either full- or part-time students, loans are made for tuition, fees and for related expenses such as child care or transportation.

To be eligible for the BPW Foundation loan program, you must have written acceptance for study in a program accredited by the Engineers Council for Professional Development, be a U.S. citizen, show financial need and carry at least six semester hours (Yes, but what is that in units?) during the term for which the loan is requested. Both work experience and academic achievement will be considered.

Completed applications for the fall 1979 semester are due by May 15, 1979. For applications and/or further information, write to Loan Fund for Women in Engineering Studies, BPW Foundation, 12 Massachusetts Avenue N.W., Washington, D.C. 20036.
Ellison Speaks...

by Eve Bennett

Harlan Ellison’s presence was felt at a Y-sponsored event this past week. Opening with an explanation of a little wet spot on the front of his trousers, he demonstrated his willingness to discuss any subject—almost. He did not want to delve into a discourse upon religions and bored himself with a parody of a professor’s lecture on a topic—the universe. Ill-will arose when the talk turned to an evil subject—music. He modestly explained his nationalism for this is that executives cannot trust a known fanatic such as he and must bring in others as “insurance” that the project does not go wrong. As part of getting over this bad experience, he has not written any during the past two months, but he has been giving talks, for which he is usually paid $3000 a night (but not that much by the Caltech Y).

In the course of the evening, Ellison gave his opinion of several movies. His criticism of TV does not extend to this medium since in order to view a film, one selects from a listing and travels to a place specifically designed for viewing; also, they do not have commercials. His highest praise was of The Deer Hunter, which he said, “will completely burn out your brain.” He suggested going to see it when the talk turned to an evil writer. When asked who his fantasy writer competitors were, he replied that they were major things in his view, so his &co was none—if he is compared, he wished that it be aside the likes of Conrad, Joyce, Twain or Hemingway. He did admit to liking some “marvellous” trash—particularly the Doc Savage series. Although he had spent a year converting Asimov’s book into screenplay, he was not pleased with it. He noted that it was written when the author was much younger—evidently he himself wrote some rough stuff when he was starting.

His advice to would-be writers? One has to write continually—that is the best way to learn. Perhaps one should also have oneself analysed. He believes that the flaws in one’s writing directly correspond to the flaws in the character. He said there are certain types of books and readers for every type of book. For example, writers of dragon and cape stories are writing off their childhood memories of Conan stories are thin, pale males with large Adam’s apples. Which type reads his stuff? Those slob into a bookstall on their stomachs.

He gave a sample of his stuff in the form of a reading of an unpublished short story titled “The Fourth Year of the War.” Simply put, it is about a man’s internal struggle with “another being” who dredges up painful memories of his childhood and forces him to murder all those who caused him pain. One person dared to criticize the way Ellison described a person’s voice and he did not take it well. He said that the way he wrote it and that was the way it should be. Other criticism that he was sometimes contradictory drew the response that it was accountable to the fact that he is a multi-faceted personality.

All in all, Ellison was disappointed with Caledon Dinner at Lloyd House. We did nothing to improve his mood—he said it was like Delta House. Members of the audience tended to shout “Fuck God” and “Let shower him” rather than the witty bars that, he claims, a MIT audience produces. The frequent breakdown of his microphone system did nothing to endure him to Caledon engineering. A last opinion? Speaking of the human race: “An outsider, I find you amusing.”

Two timepieces from the Baxter Art Gallery’s Bryan Rogers exhibit

Don’t miss the Caltech Jazz Band
Feb. 28, 8:15 pm
Baxter Lecture Hall

Music by Ellington, Mangione, Deutsch

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Next appearance Southern CAL Collegiate Jazz Festival

Page Eight

THE CALIFORNIA TECH

Friday, February 16, 1979

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**The Wells-Fargo Wagon is a'coming**

**Music Man**

by J. Copeland

The tenth not-quite-annual Caltech Musical opens Friday, February 23rd, a week from today. This year's production is Meredith Willson's *The Music Man*, set in the town of River City, Iowa, in July 1912.

The story is of a con-man named Harold Hill who sells musical instruments and band uniforms to the town for a kid's band, and then ducks out before teaching the kids how to play. Of course, something goes wrong; in this case, Marian Paroo, the town librarian.

The production stars Barry Johnson as Harold Hill, Jean Goodenberger as Marian, Bruce Buskirk as River City's Mayor Shinn, and Greta Davidson as Mrs. Shinn. Other Caltech students in the cast include Ray Beausoleil, president of the Associated Students, Larry Frieden, Chairman of the Interhouse Committee, Young-il Choo, star of last year's play *Fiorello*, and Stan Cohn, star of *Guys and Dolls* two years ago. The opening crowd sequence, in the center of River City features Dr. & Mrs. Murph Goldberger. It also has a mechanical chicken designed by Tom Howell.

There is still time to be involved in the Musical. To help build sets, contact Pat Walls in Lloyd House. The house putting in the most man-hours of set work gets a half-keg.

Tickets are still available at the Ticket Office: $2.50 for Caltech students, $4 for staff, faculty, and non-Caltech students, $5 general admission. Performances are at 8 pm, Friday the 23rd; 2 pm and 8 pm Saturday, and 2 pm and 7 pm Sunday. Meredith Willson will be attending the Saturday matinee.

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More Randomness

Writing a newspaper article is a bit like giving a lecture (well actually my "column" is.) As long as I continue musing onwards I tend to complain...a lot. Here are some faults I suppose, but I try to tone it down when I'm writing...so I'll try it down when I'm writing. From where I sit I feel there are worse faults I suppose, but I try to tone it down when I'm writing. I'm trying to help the students, and since the students are a part of this place, I'm trying to help the Institute. And who knows, maybe some professors wouldn't mind some help.

The sad fact is, Caltech has some of the worst teachers I've ever encountered and/or heard of. In his inaugural speech President Goldberger said Caltech had the second best undergraduate program in the nation. If we're second best with the teaching quality we enjoy that says one of two things: either the entire university system is in big trouble, or the students here are pretty capable of teaching problems at the Institute. But first...a disclaimer. Because I haven't applied for a line just yet, I'm writing this on line 1, and a lot of people won't judge me I respect, think I'm a problem. I'm fully responsible for what I write, so don't think this is not edited or otherwise altered, but if I make a mistake please understand that I'm not a personal vendetta.

A jug of wine...A loaf of bread...And Thou.

Picture yourself in a company where people like what they're doing and where they are. A company where people openly enjoy each other and work together toward common goals. A company where people thrive on action, professional freedom and excellent resources. Here the picture becomes Signetics. We're one of the most experienced and broadest based suppliers of integrated circuits in the world. In a dynamic industry legendary for change, we have an unmatched record of personnel retention. And that's one of the reasons we continue to invest more and move to our people's growth.

Signetics is a place where we can offer you every opportunity to build your skills. The way we look at it...if you look good, you look good. So, if you're about to graduate with a bachelor's or master's degree in: Electronics or Chemical Engineering, Physics, Chemistry, Metallurgy, or Electronics or Industrial Technology we encourage you to join us on campus.

Friday, March 2, 1979

We'll talk with you about opportunities in product, test, process and design engineering, and quality and reliability assurance, and give you some compelling reasons for making the Good People Company the right choice for your rewarding career.

THE CALIFORNIA TECH
Spirited Sailing
by Jill Ibers

Was it an overpowering sense of school spirit, or simply a love for sailing, which caused the Caltech sailing team to head for Newport to compete in the First

Southern Series Sailing Regatta, while the rest of the student body of Caltech slept soundly. Despite all of the spirit and high hopes for success, the weather was not with the valiant team. The light winds only accentuated the faults of the team's mighty Flying Junior, Kookaburra. And the cold temperatures and incessant fog dampened the enthusiasm of half the team, despite multiple cups of coffee.

The Vanguard Flying Junior of schools such as UCSB, UCLA, UCSD, OCC, and UCI unfortunately outclassed Kookaburra in the light air. However, owing to superior sailing ability, the Caltech team managed to beat three competitors in each of four of the five races; against a fleet of thirteen Vanguards, that's no small feat. Shivering all of the way, David Shenton and Jill Ibers proved worthy crew to Greg Hoffman and Dave Carlan.

The second half of the regatta was held on Sunday and the courageous team returned to Newport with Mark McHenry and David Kamins replacing Saturday's crew. The weather was no better on Sunday except for a short visitation from the sun, and the sailing failed to improve. Owing to a variety of mishaps, such as a car which wouldn't start, not only was the crew freezing, but even the mighty captain of the team, Greg Hoffman, admitted to being cold.

Although Caltech did not place as well as might be expected with more cooperative weather, the team showed a lot of spirit and a lot of talent. Next year, with the purchase of a Vanguard Flying Junior, Caltech can only markedly improve. Besides, winning is only part of the sport; sailing is simply one heck of a lot of fun!

What's it like to be an engineer at IBM?

Bill Klenholzer
BS: Electrical Engineering '72
University of California, Santa Barbara
MS: Electrical Engineering '77
University of California, Santa Barbara
"The technical vitality here at IBM is attractive for young engineers looking for a future."

Evelyn Glatix
BS: Electrical Engineering '74
University of Washington
"Growth and success in IBM are only limited by an individual's own ambitions and abilities."

Doug Brooms
MS: Mechanical Engineering '72
Stanford
"The atmosphere is relaxed and informal, quite distinct from the dark suit and the image of IBM. The people as a whole are congenial and cooperative."

Ric Davis
BS: Mechanical Engineering '68
University of California, Santa Barbara
MBA '76, University of Santa Clara
"IBM has provided me with all that I've desired in an engineering career."

Homer Dean
BS: Mechanical Engineering '72
San Diego State
"IBM has elevated my responsibilities as fast as I was willing and able to accept them."

Tony Spear
BS: Aeronautical Engineering '77
Purdue University
"IBM encourages me to challenge the accepted ways."

An Equal Opportunity Employer

If you could talk with some of the engineers who have joined us recently, you'd hear some good reasons for working at IBM. Our people are given responsibility for projects as soon as they can handle it and they have the freedom to carry their projects through to completion. There's a lot of room for personal growth and outstanding opportunity for advancement because we make a practice of promoting from within. If you'd like to know more about a career in engineering, sign up for an interview at the Placement Office, or write: H.A. Thronson, Corporate College Relations Manager, IBM Corporation, 3424 Wilshire Boulevard, Los Angeles, CA 90010.

We will be interviewing at Caltech, Tuesday and Wednesday, February 27 and 28.

Investment from page 1

any given year, then for the year the fund will be under the direction of the Institute's BOD.

The duties of the BOD:-

Developing and adopting appropriate bylaws.

Electing officers and defining their duties.

Holding regular meetings and special meetings as required.

Conducting the necessary studies.

Making investment decisions and conveying these decisions to the Institute in writing.

Making regular written reports of the conduct and program of the fund.

Making provisions for handling the fund when school is out.

Acquainting new members of the board with their duties.

A regulation council to join the board shall provide need help, although all investment decisions will be made by the students. The council will be made up of three advisors, selected from members or faculty of the Institute, from the institutional faculty staff, or administration, outsiders interested in knowledge in the investing field. Two of the advisors may be appointed by the student board and the third by Dean Owens.

In addition, there will be a student/faculty review board consisting of six members, three appointed by the BOD of the investment fund and three by the administration. The fund will be reviewed every couple of years, and the last student president and successful fund with respect to initial objectives will be considered. Any change suggested by the Joint Board must be approved by the Board of Trustees.

It should be emphasized that the money acquired by this fund is far from the main object. While the Institute may sometimes feel that there will be no signifi- cant financial impact on, say, ACIT's budget, the performance of the fund is important. The aggressive actions designed to make major market killings outside the aims of the day by Mr. Johnson, besides the income from such as buying on margin, short, or selling in options by not being inappropriate in the hands of unseasoned investors. Mr. Johnson hopes that the Caltech students take advantage of the fund and prove themselves for the "outside world." We've got two weeks to move your ass.