

**Total Applicants Up But Women Admitted Down**

By Brett Sturtz

Offers of admission have been sent to applicants selected from the largest applicant pool Caltech has had since 1960, according to Mrs. Barbara Brown, assistant director of admissions. A total of 383 prospective students were selected from 1482 applicants. This was the highest number of applicants for any year since 1958-60, when science gained great appeal as a result of the Sputnik launch.

Mrs. Brown said that Caltech continues to maintain its high admission standards. The last 10 years' average test score decline has not affected the quality of Caltech's applicant pool, according to Mrs. Brown. About 400 new applicants per year receive a perfect score of 800 on the math level II achievement test, this number is at least 20 percent of all those receiving 800's. Test scores are used as the first criterion in scheduling interviews with the applicants.

Another important thing the admissions committee looks for besides high test scores is the commitment to research Caltech desires in its students.

This year there were 168 female applicants, an increase of 107 percent over 1975. A total of 46 offers were sent to women applicants. About the same percentage of women applicants were offered admission in the percentage of the total applicant pool. However, this is only about two-thirds the number of women offered admission last year, when the college voted to admit women.

**The Big T Debt: Causes and Possible Cure**

By Martin Goldberg

On your next term bill will be an entry, "Yearbook—$5.50.

This term you paid $4.00. Who is responsible for this increase?

On April 10, the ASCIT Board of Directors, under the authority vested in them by Article VI, Section 2d of the ASCIT By-Laws, approved a surcharge of $1.50 per term to be levied on the yearly charge for the next two terms. This raises the cost of the 1979 Big T from $12 to $15. Amazingly, 800 copies are bought, which is a reasonable assumption, that means $3600 more than the $2800 spent on the 1978 Big T. This will not help the Big T coffers. However, this money is not for steak dinners for the staff; it is to pay part of an $8000 debt. President Breakeve said that they were increasing the cost to pay the debt as quickly as possible.

Ten thousand dollars worth of 1977 Big T's were bought, and $2000 worth of advertising (Continued on Page Two)}
Stop Your Snaking and See Python

This week Cinematech bridges the generation gap with two films that are guaranteed to appeal to young and old. Although separated by only six years, these comedies were grown from two different eras. The first feature presented will be Some Like It Hot, followed by The Loved One.

Made in 1959, Some Like It Hot, is set back in 1929 at the height of the roaring twenties. The story concerns two musicians (Jack Lemmon and Tony Curtis) who are hiding out. To remain inconspicuous, they disguise themselves as female musicians and play in an all-girl band. The leader of the band is Marilyn Monroe. This film was directed by the Academy Award winner Billy Wilder. It turns into a frantic romp of bathrooms, booze and jazz, that is simply funny. This is pure entertainment.

As a special favor to the guests, Cinematech will be showing a rarely seen combination of Marilyn Monroe shorts before the film. Get there on time, or you are likely to miss her first screen test and the only commercial she ever made.

The Loved One (1965). For anyone familiar with NatLamp, this is a must. Terry Southern co-scripted the adaptation of Evelyn Waugh’s percent of Caltech’s admission offers went to women this year. Mrs. Brown points out that in 1969 there was a “good proportion” of minority students among those offered admission. She noted that there were several Russian and Vietnamese Americans this year. Mrs. Brown said that while the admissions committee would not “concessions” to attract and admit minority students, there was a slightly higher ratio of offers to students in black, latinos, and orientals.

Houses from Page One

small size, many rooms are ugly and poorly equipped. Cramped into every conceivable niche of the houses, they leave much to be desired as a place to live. “Some of them are really holey” Mrs. Brown says.

The rooms require carpets, new draperies, and lighting. Walls need fresh coats of paint. New desks and chairs are badly needed in many rooms, and lack of shelf space is a common complaint.

Larger and better equipped kitchen facilities are necessary to a better atmosphere. Shelf space in some kitchensette is absurdly small compared to the number of users. Many kitchen appliances need repair or replacement. The fixtures, especially in the old houses, are in a bad state of disrepair.

Unlike the roof or plumbing repairs, which would receive immediate attention, these repairs will take place over a period of three years, with the highest priority repairs beginning this summer. Such repairs include new lights for alleys, carpets, and so on. This could be a costly item which would be worked on in the summer of 1979 or 1980.

Pre-Frosh from Page One

a special effort was made to admit as many women as possible, with the majority of these admitted being based on their academic records.

A problem the admission committee still faces is the declining acceptance rate of many women: while the number of offers sent to women has increased over the years, the number of women who have admitted has remained relatively constant. The committee hopes that the existence of the Women’s House as a female single-sex facility and a personal letter from an upperclass woman sent to each prospective female student will help encourage women to go into these schools.

A special section of this week’s yearbook is devoted to the necessary qualifications. High math and science ability, as well as the ability to do maintenance on anything from lights to sinks, will be introduced. A possible justification for their use will be their need to maintain all the things the men, but only 8 percent of the women, had taken four years of math in high school. This large sample with relatively even sex distribution. Roughly twelve percent of the freshmen are women. Not many of the women in Caltech look more attractive to women.

Mrs. Brown points out that the reason so few women are admitted is that there are not very many women with the necessary qualifications. High schools are still not geared to women; about twelve

The state of the houses makes one wonder how they could deteriorate so much. Clearly, the most obvious cause is a simple lack of money. Another cause is the lack of communication with the students and their parents. Students who are required to do maintenance on anything from lights to sinks, will be introduced. A possible justification for their use will be their need to maintain all the things the men makes it one wonder how they could deteriorate so much.

The Magnificent Seven

Next Week
Britain—Standing Firm or Slipping?

By Joel Rubinstein

Sir John Cowie, private secretary to Her Majesty Queen Elizabeth II, came to Ramo Auditorium Tuesday to speak on the condition of Great Britain. In his lecture, Cowie spoke of how Britain is managing a new role in the world. The many former colonies of which Britain has divested itself point out the change in Britain’s influence in world affairs. From the defeat of the Spanish Armada to WWI, Britain was the dominant world power. Now Britain cannot control the violence in Ulster and faces the threat of Scotland’s departure from the kingdom.

The world’s first industrial state is plagued by strikes, low productivity, inflation, and unemployment.

Sir John said that the bad news from England consisted of inflation, unemployment, increases in crime, and a decay of morals. He did not say what sort of moral decay had occurred. Later, he said that women were penetrating formerly all male institutions, and only the Church of England was immune. He hastened to add, with respect to crime, that even with the increases, the crime rate remains low, even by the standards of the “civilized world.”

Most of the bad news was economic. Sir John cited several statistics to show that the former economic pre-eminence that Britain enjoyed had declined to insignificance. For example, steel productivity per worker is five times higher in Japan than in England, and Britain’s GNP ranks below 22 other countries, including the U.S. and most of Europe. He attributed these difficulties to an unacculturated, insular nation structure. There are 115 trade unions, and they often act as a force, against the nation leadership’s wishes. Furthermore, the “welfare state” provides money for striking workers, often at nearly normal scales.

In spite of these unfortunate facts, there are many points of pride to Sir John and the British. Britain maintains high standards of integrity, and has efficient systems for supply of spare parts and repair service. London is still the financial capital of the world. As Sir John pointed out, there are more American banks in London than New York. More stocks are traded in London than anywhere else. Agriculture also performs well, and with only two percent of the population, it provides nearly fifteen percent of the GNP.

Sir John said that he hoped for closer cooperation between England and the U.S. in the future. He suggested that England has much experience in world affairs, and is a highly reliable ally. At the end of his speech, he admitted that English was known for arrogance and superciliousness. Actually, he had known that. My impression from the likes of Althor, Cooke is that the British are warm and friendly. However, Tuesday’s lecture did a lot to change my opinion.

I found his apologies for Chamberlain’s sacrifice of “a faraway country—the Netherlands—to Germany to lack merit. (Sir John was private secretary to Neville Chamberlain.) He said that World War One was “the ultimate horror” and afterwards, peace at any price was the philosophy. Another tragic sellout on the part of the British concerned the Balfour Declaration which guaranteed a Jewish homeland in Palestine. The White Paper, a blatant sell-out to Arab political pressure, limited Jewish immigration and forbade a Jewish majority forever. The Jews who did not enter illegally and remained in Europe were cruelly slaughtered by the Nazis. This is the failure of British “constancy.” This lecture was sponsored in part by the English Speaking Union. No, I haven’t heard of it either. Said one middle-aged member, “We’re more active in the Bay Area.” She added that the younger members like herself had less influence in ESU activities, and older members dominated the organization.

Sir John’s speech was free and open to the public.

———

SPECTRUM PRODUCTION 16

‘ALL THAT FALL’

by Samuel Beckett

Samuel Beckett wrote All That Fall for the British Broadcasting Corporation in 1956. It is by all odds the master’s most lovable—and most accessible—play: a genuinely Irish comedy, full of nostalgic touches in which Beckett reminisces about his native Foxrock, near Dublin. Of course, Beckett does not cease to Beckett, when he becomes affectionate and accessible. Everybody in All That Fall is sick, crippled, sterile, furiously dying, or downright dead. At the climax of the action, a child gets pushed out of a moving train. It’s all as Beckettish as can be. But Beckett conducts the action with so much mercy puff, such high comedy, and such lyric beauty, that it is impossible to get depressed. This is not one of “horrors of life in a penitentiary” dramas that leaves you gloomy for a week. Beckett’s personages squeeze an amazing amount of juice out of their despair. Spectrum’s production—with an all-professional cast, as always—will pass on to you the “brimful cup.”

Fridays & Saturdays, April 14-15, 21-22, and 28-29 at 8 P.M.
in RAMO AUDITORIUM

Gen. Adm. $5.00; Faculty and Staff $4.50; CIT Students $4.00 ($1.00 Rush tickets available at 10 A.M. on Fridays for shows on that weekend at CIT Ticket Office and Ramo Box Office).

For information, call (213) 793-7043 or campus ext. 1652

———

THE SKY’S THE LIMIT IN NAVAL AVIATION.

If you want to get to the top in aviation, the Navy is the way to go. We offer unlimited opportunities as pilots and Naval Flight Officers. As a pilot, you’ll be trained to fly the most advanced jets ever developed. As a Naval Flight Officer, you’ll operate the sophisticated weapon systems, computers and advanced electronics. As either, you’ll wear the wings of Naval Aviation.

If you’re a college man in good physical condition, Naval Aviation could be your route to the top. Find out about it from your local recruiter. Contact:
Lt. Tim Barnwell, 4727 Wilshire Blvd., LA, CA 90010
NAVY OFFICER, IT’S NOT JUST A JOB, IT’S AN ADVENTURE.
Izzy Lewis
Photos by Joe DiGiorgio
Sex from Page One

The last four subpopulations are just the breakdown of the Caltech male data by classes. The high percentage of Caltech male virgins is in no way a surprising fact. In a school where the male to female ratio is about nine to one there is little opportunity for Caltech males to meet unattached females on campus. Caltech females, on the other hand, have a much lower percentage of virgins (17.9%). While this is definitely lower than Caltech males and even less than PCC females (29.6%), it is in no way an indication that Caltech women are much more apt to lose their virginity due to the unusually large number of males at Caltech. The simple fact is that PCC males show an incredibly low percentage of virgins (3.3%), and yet PCC does not have an abnormal female to male ratio. Thus, while it is clear from Caltech’s male to female ratio that there exists plenty of opportunity for Caltech females to lose their virginity, the percentage of Caltech female virgins indicates that a significant portion of Caltech females can and do resist any pressures which this abnormal ratio may present.

And the fact that the PCC males showed such a low percentage of virgins in an environment which is in no way conducive to meeting members of the opposite sex as Caltech females are in, indicates that the male to female ratio is not as significant as many people believe.

I would like to emphasize once again here that the validity of the PCC data as it applies to all people at PCC is highly dubious due to the small number of males (33) and females (27) polled at PCC.

Another important aspect of the graph dealing with virginity has to do with the last four categories. Despite rumors floating around at the Caltech Health Center people as saying that over eighty percent of the incoming Freshmen are virgins, the data indicates that only about fifty percent of the Freshman class were virgins during first term. I find this point important that there are often numerous incorrect facts being circulated around campus which are not based on any actual research. The eighty percent figure which I stated above has been quoted to me more than once during my three and a half years at Caltech.

One other very important point to be taken from the last four columns on the graph on virginity is the overall pattern of these four subpopulations. At the Freshman and Sophomore levels about fifty percent of the Caltech males are virgins. In the Junior class this decreases to 37.8% and the Senior class decreases even further to 25.6%. This data indicates two facts. First, as mentioned above, about fifty percent of the incoming Freshmen have had some experience with sexual intercourse. Second, during the four or so years that males attend Caltech, another twenty-five percent manage to lose their virginity. This is despite the scarcity of females on the Caltech campus and the poor male to female ratio. In short, it is clear that even at Caltech it is possible to gain in sexual experience, despite the disproportionate number of males and females. This very distinct pattern will be seen to repeat itself very consistently in almost all the remaining data from the poll, including the other two graphs presented this week. The second graph is similar to the first in many ways, and deals with the question of sexual intercourse within the past year. This graph is presented on page (5).

The graph shows the percentage of people responding "yes" to this question.

Four extra data columns are added to this and the next graph. These data points were taken from Playboy For Women poll taken in the early '70s. The overall data is taken from people eighteen or older while the Playboy '84-'85 group indicates a more limited population, similar in age range to most college populations, including Caltech.

In this second graph, the Caltech females show a high degree of sexual experience within the past year, higher than any other female population polled. Still, however, all male subpopulations polled, except Caltech males, showed a higher percentage than Caltech females for this question. Thus, while the Caltech females may seem sexually active in comparison with other female groups, they are not as sexually active as any non-Caltech male groups. This implies to this author that the unique environment at Caltech certainly does allow more sexual experience for Caltech females, but that this sexual experience in no way can be considered extreme.

Once again, the pattern of the last four columns in familiar and consistent. There is a general trend of increased sexual experience from the Freshman to the Senior years (with the also familiar Sophomore anomaly). So now it can be said (with data to back it up) that among Caltech men the Sophomores do have a better chance of having sexual intercourse than the other classes.

Another point of interest here is the PCC data. The data indicates a polarity or movement to the opposite statistical extremet for the males and females at PCC. The males at PCC show a higher percentage of sexual intercourse experience in the past year than any other category, male or female. In contrast, the females show a lower percentage of sexual intercourse experiences in the past year than all other female groups and all the male groups, except Caltech males. Even Caltech Senior males show a higher percentage here than PCC females, so all you horny Caltech males shouldn’t feel so bad.

The third and final graph to be discussed this week deals with masturbation to orgasm within the past year. This graph is shown on page (5). The question asked was, "Have you ever masturbated to orgasm within the past year?" The graph shows the percentage Continued on Page Six
Dam Lecture

The results of investigations into recent dam failures will be discussed by Professor of Civil Engineering Ronald F. Scott, on Wednesday, April 27 at 8:00 pm in Beckman Auditorium, as part of the Earnest C. Watton Lecture Series.

Dam safety has become a controversial topic in recent years, as dam failures from different causes have focused public attention on the engineering problems of dam construction. Seismic effects on dams have been studied particularly thoroughly since the damage to several dams wrought by the 1971 San Fernando earthquake.

Besides reviewing recent dam failures, Dr. Scott will discuss federal and California state programs to mitigate dam hazards. The talk will also include a discussion of problems experienced in the analysis of the safety of dams.

Dr. Scott and his colleagues recently conducted an unusual experiment on the Santa Felicia Dam, and earth dam in the Santa Clara Valley. To learn more about its response to earthquakes, the engineers subjected the dam to very small vibrations, using two motor-driven weights which generated a combined maximum force of 10,000 pounds.

Cycle Shop to be Organized

The Caltech Cycling Club cycled to Griffith Park last Sunday as scheduled. This club plans a trip for April 27, the club is flv Icelandic.

On April 27, the club is meeting in the V Lounge at 7:15 to organize membership in the long awaited student bike shop. For only $2.50 a term, students may buy the facilities, but the tools included. The bike shop will also be used to sell and repair bikes.

One of the first things young Puffins learn to do in Iceland is to learn to ride a bike. Beginning April 15, 1965, Iceland will pay any youth bus fare (or portion of it) for 25 years old traveling to or from New York. The fare is $4.36. In addition, a $40.00 allowance is made towards hotel and meal costs. The trip is open to all CIT students.

The puffin fare for youths.

Icelandic to Europe

$275 Roundtrip 14-45 day
$400 Roundtrip Youth Fare, Good thru age 23.

The California Tech

ATTENTION JUNIORS

Earn over $650 a month right through your senior year

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

It’s called the Nuclear Propulsion Officer Candidate—College 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 receive an additional year of advanced technical education. This would cost you thousands in a civilian school, but in the Navy, we pay you. And at the end of the year of training, you’ll receive a $3000 cash bonus.

It’s not easy. There are fewer than 400 openings and only one of every six applicants is accepted. But if you make it, you’ll have qualified for an elite engineering training program. With unequalled hands-on responsibility, a $24,000 salary in four years, and gilt-edged qualifications for jobs in private industry. Keep your poll in general with the Navy later. (But we don’t think you’ll want to.)

Ask your placement officer to set up an interview with a Navy representative when he visits the campus or contact your Navy representative at (213) 468-3321 (collect). If you prefer, send your resume to the Navy Recruiting District, 4727 Wilshire Blvd., Officer Programs Office, Los Angeles, CA 90010, and a Navy representative will contact you directly. The NUPOC-College Program. It can do more than help you finish college, it can lead to an exciting career opportunity.

Navy Officer

It’s not just a job, it’s an adventure

ROMA GARDENS

ITALIAN CUISINE

PIZZA

SPAGHETTI

RAVIOLI

OPEN 5-11 p.m. Sun-Thurs 5-12 p.m. Fri-Sat

Now open for lunch 11–2. Buffet lunch $2.95. All you can eat Thursdays for $4.25

10% off on Italian food to all CIT students (buffet lunch excepted) 7 days/week

Use new back entrance for picking up orders

1076 E. Colorado 449–1948
Friday, April 21, 1978

THE CALIFORNIA TECH

Lost:
One blue Gravito-Electric Cap, from the APh/EE Library. It resembles a Mickey Mouse Hat, and they want it back!

Ladies, Defend Yourselves
The Women's Self Defence class is this Sunday from 10 am to 3 pm in Dubney Lounge. Late registration may be made by calling Bev Pray in the Health Center at X2394 or 797-3617.

Nominate Yourself
Nominations for student/faculty committees are now open. Sign up on Flora's Door, IHC Chairman (126 Lloyd).

News Briefs
Amnesty International has Fundraiser
Ian Whitcomb, noted singer-entertainer, will be featured at the Pasadena Chapter of Amnesty International's annual fund raising event at the Ice House in Pasadena, on Tuesday evening, April 25th. Two evening performances will be given, one at 8:30 and another at 10:30. The Ice House has allowed the local chapter to keep the entire proceeds from tickets sold in advance of the program. Tickets can be purchased from J. S. Haas, X1759, or Sethu Palaniappan, 5 Blacker.

WHY WAIT?
Sign up for summer work now. We are recruiting for:
- Typists
- Secretaries
- Receptionists
- File Clerks
- Ten-key/Bookkeepers
- Light Industrial

Work in your own local area. Offices in Pasadena, Alhambra, and Glendale. For more information, call: THOMAS TEMPORARIES 301 E. Colorado Pasadena, CA 91101

Physics Sheep
Any student having information on the use of sheep in physics should call Dr. Ray at X2236.

Physics Department

Best tilt of the day!

GEORGE BRENNER

BEER 
FOOD
at
ROCKY'S BAR

Outstanding Sandwiches
Bud, Michelob on tap
25¢ per 8 oz glass
Pinball, Pool
11 AM—2 AM 11 AM—Midnight, Sundays
1284 N. Lake, Pasadena

Good times are great times for the easy taste of

Budweiser

KING OF BEERS - ANHEUSER-BUSCH INC. ST. LOUIS
CLASSIFIED ADS

CONTACT LENS WEARERS: save on brand name hard and soft lens supplies. Send for free illustrated catalog. Contact Lens Supplies, Box 7463, Phoenix, AZ 85011.

STILL GULLIBLE comptroller seeks hostages. Jim Angel x280 or 792-2944 or send mail to [29970,JZA].

ADDRESSERS wanted immediately. Work at home—no experience necessary—excellent pay. Write American Service, 3550 Park Lane, Suite 269, Dallas, TX 75231.

Young, dr., wife, child need furnished house July 1 through June '79, prefer to rent from Caltech faculty going on sabbatical, call 462-2710, Dr. Benham.

PASADENA TRANSMISSION
26 N. Hill Ave. 792-6104
Get Our Price And Guarantee Before You Buy!

PASSenger CARS — 2 YEAR OR 24,000 MI. WARRANTY

ALL CHEV. PONTIAC CARS 51-70...

ALL CHRYSLER PRODUCTS 51-70...

ALL GENERAL MOTORS VEHICLES 51-70...

ALL JEEP BEARCAT (SMALL CARS) 49-70...

ALL CARS (EXCEPT JEEPS) 51-70...

ALL GM PRODUCTS 51-70...

ALL MIE PRODUCTS 49-70...

ALL SALES TAX INSURANCE INCLUDED...

CALL FOR PROMOTIONAL CAR PRICE, FREE ESTIMATES.

Please have your license number on hand.


TYPING: Ruth C., Expert typist. West Los Angeles, Dissections, Tables, Correcting Selectric, Symbols, Pica and Elite. Many typewritings. 7 days a week 938-8425.

ENGINES

Federal Government agencies are involved in some of the most important technological work being done today...in energy fields, communication, transportation, consumer protection, defense, exploring inner and outer space and the environment.

Some of our jobs are unique, with projects and facilities found nowhere else. Salaries are good, the work is interesting and there are excellent opportunities for advancement.

Our nationwide network can get your name referred to agencies in every part of the country. For information about best opportunities by specialty and location, send a coupon or your resume to: Engineering Recruitment, Room 6A11.

U.S. Civil Service Commission
Washington, D.C. 20415

An Equal Opportunity Employer

Name

Address

City State Zip

Degree level and Engineering Specialty

Univ. Col.

Grad Year

Geographic Preference(s)

French Connection

569 South Lake Avenue • Pasadena, Calif. • 449-5050

Gigantic sandwiches, Unique salads, Homemade soups. Pizza, Quiche Lorraine, Fondue, European and homemade desserts. Altadena soft frozen yogurt

You may bring your own favorite beer or wine

OPEN 7 DAYS
Sun. & Mon. 11am-7pm
Tues.-Sat. 11am-10pm

Present your student ID and get 50¢ off any purchase of $2 or more (through April 30)