Frosh Data Compilation

By Mojo

This is the third part in a series of articles containing data culled from the Admissions office about the Class of '79, as freshmen will be more on Stirling Huntley at camp. This year's freshman class is nearly larger than those of the previous years, with the last one from the Admissions office, 224. Among those 18 girls, a most noticeable decreasing number for the past 10 years. A somewhat unusual percentage came from California this year. 48%, 45% were from out of state, and there are 19 foreign students.

Of course, the students' opinions will not be declared until the first issue of the student newspaper is printed. However, the figures may be gathered from the trest sheets. Engineering is up this year with 55 expressing interest, about 25%. The usual figure has been about 20%. Astronomy is also up.

One thing that is perhaps pleasant to see is that girls are more spread out in their interests, which are usually primarily in engineering or chemistry. It is expressed an interest in engineering, 4 in Math and Physics, and 3 in Astronomy.

New Student Camp will continue to yield more surprises to the class as they learn more about the school and the teachers they have bosses.

The Road Goes Ever Onward

Newspaper Short On Asphalt

by Dick O'Malley

Faced with an acute shortage of competent personnel, the undergraduate newspaper here at Caltech nonetheless managed to produce a twelve-page issue, which appeared early this morning (September 25, 1975). This issue, which is the only one scheduled to be published on a Thursday this year, appeared one day sooner than it might have in order to make sure that it got into the hot little hands of the freshman class (see the article on page two) before they left camp to go to their orientation at Camp Fox.

The appearance of the paper was due primarily to the efforts of a very few people, which does not bode well for future success. Managing Editor, Davie Mahoney explains: "There’s no way in hell they’re going to get me to write as many articles for them as I did this week again, Sweeney and I’d be willing to take over when Lewellyn and Swensen flunk out if the BOD gives a couple of thousand each, but nothing less."
Modern dance happens at Caltech twice a week, in Dabney Lounge on Tuesday and Thursday afternoons. Karen Goodman teaches two classes each day, working with students whose experience ranges from none at all to all 20 years of lessons upon the subject.

What is 'modern dance'? Ms Goodman defines it as an American art form—the only dance that's truly American. In the early 1920s, it is still little performed in Europe. It began as a rebellion from Ballet, and was to give the dancer more freedom of movement. "Movement is an art form. The material is anything that one feels can be dealt with in working toward some expression." Techniques have been developed to explore movement possibilities of the entire body and to strengthen the body. Classes are designed for discovering how bodies can move and expanding this range through stretching and strengthening exercises.

Teachers do not differ from other students she has taught. "I love working with intelligent students, and experience is not necessary. I enjoy giving insight to non-dancers." This is one of the strengths of Ms Goodman's teaching. Starting from nothing, the builds your strength and awareness, relying on the ability of the students to grasp concepts presented in a single verbal explanation. One rapidly progresses to more complex and interesting exercises, as the body becomes more limber and more easily controlled.

The two classes differ in complexity. Body Movement is an introduction to exploring movement possibilities through basic exercises. It deals with relaxation exercises and finding the internal motivations for moving, e.g. breathing and the pulse. The class progresses by taking these basics into some simple dance movements. Modern Continued on Page Seven

A Punishing Adventure

The Death of Sherlock Holmes

by Dick O'Malley

Many believe that Sherlock Holmes is still alive. This, on the face of it, is absurd. If Holmes were still alive and tending his bees, he would have more than one grandchild. But, what year and convinces them is the fact that the Times would surely have an obituary upon the death of so noteworthy a person.

In fact, Holmes died in 1934, a victim of 1) the British ban of opiate-related products, and 2) the fact that Watson had prevailed upon him several years previously to carry a pistol. Where Holmes was simply forced to find other means than the legal to satisfy his cravings for the former, he objected strenuously to the latter at first, for he knew that it would be in violation of unwritten rules if he and Watson were to begin toting sidearms. But Watson was obstinate, and as age slowly crept upon the humble one is engaged in many enterprises. One very important one is the small wood carving shop in Soho. Manager reports that valuable supplies of teak-wood have been stolen four times in last three weeks, and nothing else touched...except that last time a guard was placed and the only entrance bolted with heavy metal bands. In the morning guard was found n/a, and iron was sheared. This indicated great mass, strength and speed, but each time only clue has been small plants—photographs

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Modern Dance

by Kutch Fingerrof

On Saturday, October 11, 1975, anyone not already a member of the student shop will have a golden opportunity to gain access to all the tools and equipment there.

Previous shop administrations have been extremely lax, but this year’s new leadership has turned the trend around. Useful and working tools will be available. No longer will people who borrow tools for months at a time be tolerated.

The shop has many useful tools to offer. In our woodwork- ing areas we have a large, powerful table saw, a radial arm saw, a wood lathe, a disc sander, a drill press, a wood bandsaw, a jigsaw and a planer.

In the metal shop we have four lathes, two drill presses, a pedestal grinder, a wirewheel/buffing wheel combination, and a milling machine (currently being replaced). We also have two arc welders, a gas/air welding torch, a power hacksaw, and a bandsaw for cutting metal.

There is ample bench space, the shop for most moderate large sized projects and storage space is available for members to keep current projects. We have selection of expensive and/or precise equipment in a spot cabinet (called the commissary cabinet) which is also available to members on a special loan. More tools can be signed out for a day or two by members.

Scheduled instruction will be available if you need help with any tool, and the committees are always available for advice and consultation.

The new member check-in will begin at 2:00 pm Saturday, Oct members should come at 1:30 pm, for a brief clean-up and short discussion (and renewal). You can’t make the meeting but you leave your name with Florea or Winnett Center Office and we’ll contact you.

The student shop is in the basement of Winnett Center, just south of the game room. Stand down can be found at the west side of the building.

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The new compact HP-21 and HP-25 scientific calculators take it easy on your budget—and give you the same uncompromising design and quality that go into every Hewlett-Packard pocket calculator, regardless of price.

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32 built-in functions and operations.
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Full editing capability.
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Eight built-in logic comparisons let you program conditional branches.
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And you can do full register arithmetic on all eight.

Both the HP-21 and the HP-25 feature:
RPN logic system.
Let's you evaluate any expression without copying parentheses, worrying about hierarchies or restructuring beforehand. You see all the intermediate data displayed; you rarely re-enter data; you can easily backtrack to find an error because all functions are performed individually.
Full decimal display control.
You can choose between fixed decimal and scientific notation and you can control the number of places displayed. The HP-25 also gives you engineering notation, which displays power of ten in multiples of ±3 for ease in working with many units of measure—e.g., kilo (10^3), nano (10^-9), etc.

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Dear Fanny,

I came up to Tech early, hoping to learn the ropes a little more before school started, and an incredibly tough after just a few days, but I really don’t want to hurt anybody’s feelings. What should I do?

Panake

Dear Panake;

You’ve already run into the major problem that goes with being a reasonably friendly girl (I assume you’re a girl) and being at a nearly all-male school. You’ll find that you’ll be forced to A) become suave and incredibly tough after just a few days, but I really don’t want to hurt anybody’s feelings. What should I do?

Dear Panake;

You shouldn’t sweat it either.

Fanny


—There were 201 freshmen at frosh camp, reported ‘Ken Kann, Frosh.’ The camp was held at Camp Radford, in the San Bernardino Mountains.

—Dr. C.C. Patterson of Caltech’s geology department was reported as warning that “a slow and painful death from lead poisoning is closer than many people think...the American people may be in danger of cumulative poisoning from the amounts of lead being absorbed by the body.”

—A conference on the moon and planets, involving 140 authorities, was held on the Caltech campus.

Modern Dance

Continued from Page Four

Dance class suits students with more experience, and those who have taken the basic class and want to go on. It is more of an intellectual challenge, as well as a greater physical demand. Ms Goodman defines the goals of the more advanced class as “a basic study of Modern Dance techniques, dealing with exercises in a more dance-like framework. This included learning small pieces of choreography.”

Fanny

Dear Fanny,

Do you have any idea how tough it is to be a genius in a world of geniuses? All through school I was the top student in my class, football star, student-body vice president, lead basketball cheerleader, etc. So what do I get during three years at Tech? A football team I wouldn’t lower myself to play for, professors that write ‘not bad’ on a 95% term paper, girls that remind me of boys (and not enough of them), and a 3.0 that may or may not be enough to get me into grad school.

This place is for shit.

What is it that when you’re a genius and at Tech, nobody appreciates you. Anywhere else, if you’re reasonably intelligent, you get encouragement and maybe even a little loving care—you even get it sometimes if you’re not. But the dickbrains on the faculty here don’t even want to know who you are. I’m typecast as a Caltech student (God help me). There must be something a Caltech student can do to make himself noticeable without pushing a lecturer into the blackboard, but damned if I know of any ways.

Dillatory Tactics

Dear D.T.;

You SHOULD sweat it. Sounds to me like you’ve got a bad case of megalomania growing here. Why don’t you just get on your hands and knees and just puke it all out? How about being allowed to be alive and living in this great nation of ours? If this were Russia, a letter like yours would probably have gotten you expelled—and then how would you get to grad school? God knows why you’d want to go anyway.

Crying snoozed hypocrites like you just frost my tuna and make me sick. You’d better hope I never find out who you are or I’ll break you so swift you won’t even have time to bleed to death.

You weenie.

Fanny
Gas Clouds Discovered

It all began at the Owens Valley Radio Observatory (a Caltech outpost) where a team of young scientists was observing a neighboring galaxy, called M33, a magpie-sized companion of the Milky Way. The observatory is located on the second floor of the library, and it is open to the public on Wednesdays and Thursdays from 10 am to 1 pm.

In a paper that will soon appear in the "Astrophysical Journal," Caltech and JPL radio astronomer and engineer Dr. David H. Rogstad and his colleagues reported finding, in addition to the flat disk of gas normally found in a galaxy, a tenuous, optically transparent cloud of hydrogen gas either intermixed with the galaxy or between it and the earth. The vast hydrogen cloud appeared to spin with the galaxy, but the exact relationship between the cloud and the galaxy is not yet clear.

One of the key findings of the study is that the hydrogen cloud in M33 doesn't have the flat disk shape expected for this type of galaxy. Instead it had numerous "wings" extending out on either side, giving it an "S-shaped" appearance. At the time the edges of the cloud adjacent to these "wings" were found to end very abruptly.

While the radio astronomers pondered these difficulties they also were working on observations of a somewhat more distant galaxy (M33). It arose about the time of day that M33 sank below the horizon.

"Previous observations of M33 indicated that funny things were going on there," Rogstad said. "And, not surprisingly, M33 has a hydrogen cloud similar to that in M33, has an odd shape, and rotates about the galaxy in an unexpected way. But more remarkable was the fact that the cloud in M33 was two to three times larger in diameter than the entire galaxy. (M33 is roughly 100,000 light years in diameter.)"

Because the galaxy appears more nearly face-on in the sky than M33, Rogstad and his colleagues were able to devise a three-dimensional model that fits the apparent odd shape and rotation of the cloud in M33. It showed that the cloud is thin, but instead of being just a flat disk, its outer parts are warped up out of the galaxy's plane on one side and down on the other, like the brim of a cocked hat, at an angle of nearly 40 degrees near the edge.

This same model proved to be the key for unlocking the mystery of M33. By proper adjustment of the model, it was possible to explain all the puzzles as due to an equal and opposite warp in the plane of M33. In this case the outer "brim" bent across the line of sight to the galaxy and appears in the observations as a perplexing "extra" cloud of gas.

Previous observations indicate that our own galaxy and the nearby Andromeda both show a slight warping of their planes. Why causes warping on such a gigantic scale? Astronomers have proposed that a warp in the plane is called attention to a small smudge near it, suggesting that it could have passed by Andromeda in a gravitational tug that has ruffled up its material. Even so, a warp in the plane of our galaxy is a significant observation that may help us to understand the structure of the universe.

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Monday—5 to 6 PM
HOME
Anytime a play deals with the nature of man and society it is either brilliant or terrible — and SPECTRUM, 9, David Storey's HOME, won the NY Drama Critics Award for the Best Play of the Year. Ramo Aud. Oct. 17, 18, 23, 24, 25 8 pm $1.00
Oct. 19, 20, 21 $1.00 (Caltech Student Ticket Price — no further dis­ count).

MORCA
The fiery magic of Flamenco, the dance and music of the Spanish Gypsy, has been called "emotion in motion". The musicians and dancers with Teo Morca bring Flamenco to life with unrivalled artistry. Nov. 21 8 pm $6-5-4-3

CARLSON & LAWRENCE
One of the most demanding of all musical instruments is the human voice, an instrument unparalleled in its flexibility. Claudine Carlson and Douglas Lawrence are truly gifted vocal artists, and their duo recital promises to be remarkable. Oct. 11 8 pm $6-5-4-3

TOCCATAS & FLOURISHES
Toccatas and Flourishes — the majestic music of ritual and ceremony, the music of trumpet and organ which has stirred men's souls for centuries, will be performed by Martin Berinbaum (trumpet) and Richard Morris (organ). Oct. 18 8 pm $6-5-4-3

FESTIVAL OF LIGHT
The Festival of Light is a pageant in sight and sound with the Caltech glee clubs, a masterful evocation of the holiday season. Although December is a term away, this celebration of Christmas and Hanukkah is almost sold out. Dec. 5, 6 8 pm $4.00 Dec. 7 4 pm $4.00

All events in Beckman Auditorium unless otherwise listed.

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Preservation Hall Jazz Band
If the Preservation Hall Jazz Band wasn’t so good, it would be simply an historic monument. But these men, the founders of jazz itself, are here from New Orleans to show you how it’s really done. Oct. 3 8 pm $7-6-5-4

All prices listed are prices to the public. See $ for Tech student discounts.

More about...
Collaborations between jazz and rock, the preservation of jazz, the promotion of jazz education, and the history of jazz are among the topics to be discussed.

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Collaborations between jazz and rock, the preservation of jazz, the promotion of jazz education, and the history of jazz are among the topics to be discussed.
by Dennis Mallonee

If you have neither the time nor inclination for intercollegiate sports at Caltech, but still enjoy knocking people around, you might consider playing for whatever house you wind up in in the intramural programs at Tech. There are two separate and distinct programs, both of which are played for prestige and a trophy. One of them is a challenge tournament called Discobolus, the other is a round-robin competition called Interhouse.

Water Polo Splashes

The splashing and exuberant activity you may notice in the campus swimming pool is most probably the Caltech water polo team. Water polo, for the uninformed, is a cross between swimming and soccer, with the major objective being to slap a ball into a goal at the other end of the pool.

Caltech has the potential for a strong team this year, with seniors Joe Arpaia, the captain and defensive specialist; Howard Bubb, offensive specialist; Phil Neebee, Art Goodling, Transfer Peter Chang, now eligible, is goalie. Sophomores Jim Findley, Doug Mehoke, Alan Valdes, Maxxof, and Ray Morris are returning, and upperclassmen Tim Ahern, a Margo Roberet, a Philip Chapman, now returning the season, include Bill Buchanan, Warren Pyka, Dimitrio Papamontiopoulos, and Steve Brown, a junior from Pierce Junior College is also helping out. Coach Ed Spencer expects several more walkers at the beginning of the year. Regardless of background, new people are welcomed.

The team will start its season Thursday, September 25, at 3 pm. The first game will be Thursday, October 2, at 7:30, when Caltech takes on the Whittier JV.

by Dave Sivertsen

Caltech football is back and sty to roll. With a dozen men out already, Coach Comens says the word is unity. With a total of 25, five underclassmen, three seniors, and Duane Gray.

According to present enrollment figures, the Caltech harriers have three new transfer students, all mid-year, and an underclassman from Whittier. Coach Leroy Neal is gunning for a third straight win in 25 Baxter. And for any questions, call ext. 2297.

By Flora

The Caltech Wind Ensemble, by Flora Comens and Andy Falls as backs; Mark Sutton and Tom Trinko, linemen, and Nom Nelton at quarterback.

Hustling Harriers

Cross Country Falls

by Dave Sivertsen

The Caltech cross-country runners have already started their season running hill and dale. Eighteen men have been running workouts so far. Freshmen make up the bulk of the team, with Robert Bous­ ret, Dave Wheeler, Vic Manzella, Larry Doutillo, Karl Ruze, Dave Trawick, Paul Meyer, and others. Returning are seniors Steve Kel­ logg, in strong shape after much summer mileage, Joe Arpaia (Senior), Rick Debus (Junior), Larry Bridge (Junior), and Sophomores Lou Testa, Dave Sivert­ sen, and Duane Gray.

Last Saturday was the first meet of the season against UC Riverside and LIFE Bible College. UC Riverside won 21-38 (low score wins), and LIFE Bible College did not have sufficient numbers for a team score. UC said, "that material in the warped disks may only recently have joined the galaxy and may have come from intergalactic clouds pulled into these galaxies by gravity."

He pointed out that when several other galaxies were recently mapped through observ­ ation of hydrogen, great hydro­ gen clouds were observed in their vicinities. "Nearby clouds similar to these may be the source of supply for the warped disks interwoven with M33 and M83. Thus three puzzles become a mere enigma.

Attractive Foremen

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Caltech Football Rolling

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Intramural Athletics Coming

by Dennis Mallonee

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