Welcome to California Tech

Volume XCII, Number 1
Pasadena, California
September 28, 1990

Prohibition Comes to Caltech

During registration, each student received copies of the new drug and alcohol policy. The new policy is prompted by the Drug-Free Schools and Communities Act, Amendment of 1989 which requires that there be a condition requiring that all students not be engaged in receiving funds or any other form of financial assistance under any Federal program, an immediate and higher education must certify that it has adopted and implemented a program to prevent the unlawful possession, use or distribution of illicit drugs or alcohol by students. The school's policy is based on the recommendations of the Drug and Alcohol Policy Advisory Committee (DAPAC) from 1989. The following is a reprint of the recommendation:

Recommendations of the Drug and Alcohol Policy Advisory Committee: Philosophy, Caltech's concern over the illicit use and the abuse of alcohol and drugs in ways that cause serious health hazards creates causes by substance abuse in the residential halls, along with the potential legal penalties for those convicted of unlawful use, possession or distribution of these substances.

Caltech's primary approach in providing substance abuse education is to educate its students regarding its risks and to increase student sensitivity to the ways in which substance abuse affects themselves and others. The Institute encourages a common community where substance abuse is not condoned and where those who abuse drugs or alcohol is provided with assistance.

Caltech has a long-standing tradition of student action against alcohol.

Guidelines for the Consumption of Alcohol by Students (Definition of "Common Area")

Any area outside of an individual's private room or apartment.

- No shared supply of alcohol available to undergraduate house residents is allowed in a common area.
- One example of this is stocked beer refrigerators.

Student gatherings within the private room of a host, not be officially approved or registered.

- Any event in a common area where individuals of legal drinking age may consume alcohol to be registered with the Director of Safety or the Dean of Graduate Studies (for graduate student events) at least one week in advance of the activity. For non-athletic events, activity. Re-outing events are covered by this policy.
- Parties in Institute-owned campus areas where alcohol is served are to be registered with the DRL, or the Dean of Graduate Studies if fifteen or more individuals are present. Gatherings smaller than this will be treated as if they are in a private room in a student house.
- No consumption of alcohol in calculus, and alcohol can be required as part of a stack on Ditch Day.
- Drinking contents must not be permitted nor may alcohol be given as a prize.
- Consumption of alcohol is not allowed at any Southern California Intercallegiate Athletic Conference (SCIAC) events. Conference rules state that the sponsoring team could fine the game if alcohol is discovered among the spectators.

- Student gatherings at athletic events are not to admit the realists of teaching at Caltech. The report referred to an absence of coherence Humanities. Kevles disagreed with both the existence of these courses because the team analyzed transcripts only for the freshmen year (1986-87) of graduating seniors; the members were aware only of the situation already described by the 1985 report. One professor said of this retrospectivism, "This is just carelessness." The report refers to "insularity from the rest of higher education that, if unchecked, cannot serve Caltech well in the long run." One professor observed that there is such an insularity, it is one "which I think has served the place pretty well for the last fifty years."

The Evaluation Team was ap- prised of these and other objections in a written response to the draft report. According to one professor the response was "just ignored," though "maybe not entirely." The WASC report, insofar as it relates to humanities, is an unfortunate, disappointing, and in many ways inexplicable document," said Kevles. Despite the grumbling of the HSS division, Gary Lorden, Vice President of Student Affairs, called the re-accreditation "basically a positive thing." Re-accreditation poses no threat to well-established schools like Caltech. It may be that the process holds up a mirror, giving the school a chance to improve itself. The 1985 report led to some curricular changes, like the Freshman Humanities sequencing, and it may have stimulated other-like the attempts of the division to nourish writing skills. According to a recent article in The Chronicle of Higher Education, WASC and the Middle States Association of Colleges and Schools have broadened their evaluations to include recruiting and retention of minority students and professors. Middle States "delayed reaccrediting Bernard M. Baruch College of the City of New York because of concern about diversity," says the article. While entailing the process of re-accreditation, Lorden admitted that the Evaluation Team should have stayed longer.

Editor's note: If you are interested in the evaluation team's report, extra copies are on file in the office of the vice president for student affairs.

With the new DAPAC policies, scenes similar to those from the annual crew race will not be seen this year at Caltech.

The Big T camera has been missing from the Big T office. If anyone borrowed it, please return it to one of the editors (Celina M., Dan P., Michelle T., and Emily W.) Your help will be much appreciated.

Chris Dunn

Professors Discount Caltech's 1990 Reaccreditation

During a meeting Wednesday, the faculty's new Student Senate president, Paul C. Jennings likened Caltech to an orchestra and then too experienced without a conductor. "Who here can conduct?"

Another was the "vaporous," an accuracy of the "insularity" or "humanities," is an un- coherence. Kevles disagreed with both the 1985 report.

The report also recognizes the existence of these courses, because the team analyzed transcripts only for the freshman year (1986-87) of graduating seniors; the members were aware only of the situation described by the 1985 report. One professor said of this retrospectivism, "This is just carelessness." The report refers to "insularity from the rest of higher education that, if unchecked, cannot serve Caltech well in the long run." One professor observed that there is such an insularity, it is one "which I think has served the place pretty well for the last fifty years."

The Evaluation Team was ap- prised of these and other objections in a written response to the draft report. According to one professor the response was "just ignored," though "maybe not entirely." The WASC report, insofar as it relates to humanities, is an unfortunate, disappointing, and in many ways inexplicable document," said Kevles. Despite the grumbling of the HSS division, Gary Lorden, Vice President of Student Affairs, called the re-accreditation "basically a positive thing." Re-accreditation poses no threat to well-established schools like Caltech. It may be that the process holds up a mirror, giving the school a chance to improve itself. The 1985 report led to some curricular changes, like the Freshman Humanities sequencing, and it may have stimulated other-like the attempts of the division to nourish writing skills. According to a recent article in The Chronicle of Higher Education, WASC and the Middle States Association of Colleges and Schools have broadened their evaluations to include recruiting and retention of minority students and professors. Middle States "delayed reaccrediting Bernard M. Baruch College of the City of New York because of concern about diversity," says the article. While entailing the process of re-accreditation, Lorden admitted that the Evaluation Team should have stayed longer.

Editor's note: If you are interested in the evaluation team's report, extra copies are on file in the office of the vice president for student affairs.

Frosh

Freshman Living: Rotation Cross Country and Soccer Action

pages 2 and 6

Jim's Journal
Underground with Tech’s Plumbers

By Ralf Majed
As you read this, thousands of gallons of water are being channeled systematically through the Caltech campus’s complex water supply and disposal system. Handling the system, and all the repairs and emergencies that arise therein, is the responsibility of the Caltech Plumbing Shop, located in the Physical Plant complex. Most of us will only see the staff of Plumbing at work if we need an emergency repair. But that’s not all they do.

When I called the Plumbing Shop, asking to do a profile, everyone I talked to referred me to Mr. Harold “Buzz” Shutt, the senior plumber with over 30 years of experience in the field. With his short blonde hair, ruddy complexion, solid frame and firm handshake, he gives a compelling impression of a man hardened by years of difficult labor. When I caught up with Mr. Shutt, he and his partner, a full plumber named Bill Gilmore, were conducting an operation on the first floor of Guggenheim. This is what we call a tagging operation,” said Mr. Gilmore. “There’s a valve being replaced on one of the main water lines leading into Caltech. Of course, they’ll be shutting off the flow through that valve, meaning a long service interruption affecting the Athenaeum and all the undergraduate houses which could last for several days. But we can minimize the interruption by drawing water from a different line.

“Do that, we’ll need to open and close different valves, and we may even have to reverse the flow in certain pipes. So we’re putting tags on the valves today so that the people who divert the water flow know which way to turn each valve.”

For some jobs, the plumbers may bicycle across campus; on this day, Mr. Shutt during his lunch break, elected to walk. We took the path through the maze of tunnels. They seemed to step over and duck under every obstacle without looking. And not only did they know all the tunnels, they knew all the equipment inside the tunnels as well.

Mr. Shutt pointed out the highlights as we passed by. “This pipe carries water this way, through the valve with the red handle over there. It comes in from the southeast, through here, and up into the building. The pipe’s going to need replacing real soon. That pipe going across carries the waste out… We came upon the first target valve. Mr. Gilmore explained, “The water from the alternate supply will have to come in here, from the pipes behind you. So this tag will tell us to open the valve and let the water through.”

“Usually we have a lot to do,” noted Mr. Gilmore. “But it’s not very exciting work. We may be called upon to do jobs that aren’t plumbing-related if we have some experience at doing it.”

“Basically, we do all the stuff nobody else wants to touch,” Mr. Shutt added. And so it went, tagging valves in Thomas and talking about plumbing at Caltech. We came back to ground level and walked into Firestone, where we encountered the tunnels.

Mr. Gilmore pointed out an open pipe with a red wheel-handled valve, “This one has an interesting story behind it. It’s an emergency release valve connected to…

Suddenly, Mr. Shutt walked up to the wheel and began turning it open. But nothing came out. “See? This thing is useless. You can turn it all you want, nothing’ll happen. They’ve got to replace it someday.”

Proceeding to the basement of Guggenheim, we came into a large room filled with huge dull green piping. In the center were two gigantic belt drives, connected to fans about five feet wide. “When this stuff is running, you can’t hear anything else. I think I got some of my hearing loss from working down here, but that was back before OSHA.”

He pointed to a corner. “When my father was here, he did a lot of the welding in this room. I’ve done some of the welding, too, like here in the corner.”

Mr. Gilmore waved his hand at the machinery. “This stuff hasn’t been used in a long time. They’ve taken some of the stuff out and sold it to a company in China. They don’t scrap it because it would cost too much to tear it out.”

Mr. Shutt added, “Basically, everyone who knows how to use the equipment is retired or no longer alive, so the stuff just sits here and rots.”

As they tagged the last valves they discussed their work, and it became clear that their schedules keep them very busy. Even when away from work, it remained on call for emergencies at certain times during the week.

Sid Lucero, another member of the Plumbing Shop, summed it up. “Everyone has a different specialty. I usually work on fume hoods, so I don’t do welding and so forth. But when there’s an emergency, we all pull together and cooperate. After all, we’re all plumbers.”

---

Mr. Harold “Buzz” Shutt, from the Caltech Plumbers.
$5,000
COMPUTER SCIENCE SCHOLARSHIPS
JUNIORS & SENIORS

• No financial questions asked
• Based on academic performance
• Applied towards all student expenses

Join our dynamic group of past and present scholarship winners:

Marc Abel • Vivian Chow • Wendell Hicken • Edward Lee
Charlotte Manly • Eric Newman • David Proctor

Applications available:
Call Green Hills (800) 765-GREEN
Financial Aid Office, 515 S. Wilson
Dean of Students Office
As the summer draws to a close, a young man’s thoughts turn to truth as the impending school year gets closer and closer. Shaking with fear, he searches for any memories of the summer—any little shred of happiness to cling to during the next turbulent year, but he fails miserably to discern any bliss out of the perfectly bland summer that has just passed. Okay, maybe it wasn't that bad, but it certainly doesn't make this easy. But wait, there must be something that happened this summer.

"Jack, your name. Jack Jack..."

Another class earned the right to leave this institution and go off into the world to sink or swim as best they could. Only time will tell which of these futures will become the world they long toFade. Even now you can reach out, and..."

Boy. It is. Which I doubt.

It was a wonderful summer for being on the road, unless you’re in Marty or Hoyt’s cars. A sad day (or night, as it were) when the Camaro can only do 0 before giving out. Sigh. Meanwhile, Marty’s car zoomed right along. Just don’t ask it to do mountains. Or deserts. Or to start nicely. Don’t even mention concrete barriers.


I asked her to the prom. That’s okay. Meet Mr. Beak. Beak beak beak. There’s a better for you. Honey, there’s someone I'd like you to meet. Meet Mr. Beak. Beak beak beak. There’s a better for you. You just have to die first. And I know who'll send you on your way. Meet Mr. Beak. Meet the beak. Beak him in the face. Beak him on the head. Beak him in the ear. Beak him in the mouth. Beak him in the nose. Beak him in the heart. Just give him the beak. You went away with him and left me alone. It’s peachy with me. Meet Mr. Beak. You head he will seek. They follow me to hell and back. They tell me of the things I lack. Boom and ridicule, that’s life for me. But just this once they’ve gonna see. That’s it. It’s peachy with me. Well it all falls together, just have a seat. Beak beak beak. Meet Mr. Beak. They left me out of everything, but two can play that game. I found a club all on my own, and gave it a better name. It grew and grew like nothing ever before seen. And all the members had one thing in common - 120/115 Beak beak beak. Meet Mr. Beak. You get the beak. Beak beak beak.
Avoid the rush
An impressive statistic from a small group of people
opportunities—right away. The day you join,
Every 90 minutes, the Coast Guard saves a life.
America's smallest armed force.

Welcome Reception on October 1st
from 3:30 - 5:00
on the South Lawn of the Millikan Library
with cookies and refreshments.

Briefings for the online systems
5:30 - 7:30 evenings
October 1st - 25th on weekdays, Monday through Thursday on the second floor of the Library.

Practice is Over.
Every 90 minutes, the Coast Guard saves a life. An impressive statistic from a small group of people who also stop drug smugglers, protect the environment and more. As a member of the Coast Guard, these opportunities—right away. The day you join, practice is over and you're on your own. So if you want action and you're looking for a chance to do something important, take a look at America's smallest armed force.

The U.S. Coast Guard.
Be Part of the Action!
Attention All Seniors!
On Campus Recruiting for seniors and
senior's students begins on October 29.
With all the competition involved in getting
moved in, a lot of you might not have your
on-campus recruiting information to
the right place. If you don't receive your
шей, stop by the Career Development
will get you one. Each year,
50-200 companies come on cam-
.images this August and
in the Career Development
College's Announcement for careers unrelated
to Caltech will not be published.

History & Philosophy Courses
Students have two great once-in-a-
lifetime opportunities to enjoy philosophy this fall.
In classes with Professor Barbara Horan is offering PI 102,
Style, Thought: 1603-1689, Wednesday 1-4.
Professor Mark Ackerman, a leading
of philosophy of science,
Professor Barbara Horan is offering PH 525, Science
Philosophy: 1603-1689, Tuesday 7-9.

Mid-Atlantic Low: Predicted for Caltech
Indicate the date(s)
with the right place. If you don't receive your
master's students begins on October 29. NSF Gradu-
ate Fellowship and Minority Graduate Fellowship. Announcements (with the
for Caltech students are automatically en-
rolled in the Mutual of Omaha medical
benefit of $75 per month-
the first $100 in medical ex-
penses up to the maximum benefit of
$50 per month charged to the student's
premium.

Come and join us for folk dancing on Tues-
day evening at 7:30 pm at
in Del Mar and Los Robles. The club offers
a variety of dance styles from all over the world.
Folks from all over the world are welcome.

Symphony Auditions
Auditions for the Caltech-Occidental Symphony Orchestra will be held on Sun-
day, September 30 from 1-4 p.m. and Monday,
October 1 from 3-6 and 8-10 p.m. in
in Del Mar and Los Robles. The club offers
a variety of dance styles from all over the world.

Student Health Insurance
All full-time graduate and under-
graduate Caltech students are automatically en-
rrolled in the Mutual of Omaha health insurance plan. After a $100 deductible--the first $100 of medical ex-
penses each academic year, the plan will pay
80% of the first $6,720 paid in covered
100% of the balance of covered
expenses up to the maximum benefit of
$100,000 for each accident and
every sickness.

In-October, Caltech students will receive a--a card and a book with the new
master policy number for 1990-91 aca-
demic year, and a brochure, explaining the insurance
coverage. If you wish to obtain
those materials, please contact the
Student Health Center.

Auditions are open to all students!
Students may only have
one code in any major
or minor area.

Come Play Music
Musicians who play woodwind, brass, percussion, string or keyboard instruments
are welcome to join Caltech Wind Ensemble.
Music Directors are Marc Konner and
Michael Silverman. Auditions will be held on Sunday,
September 30 and Monday, October
1 from 3-6 p.m. and 8-10 p.m. in
The event is open to all students!

Faculty Dancing On Campus
motivation for you to come and join us for folk dancing on Tues-
day evening at 7:30 pm at
in Del Mar and Los Robles. Dances
are taught from 7-9 pm to 9:00 pm, with dancing sessions 11:30-11:45
You may call for details at
893-5093.

Guitar Classes
Guitar classes for fall quarter will meet on
at 218 Panorama. The program will be
beginning guitar 3:30-4:30 pm
Intermediate guitar 3:30-4:30 pm
Advanced guitar 3:30-4:30 pm.

Glee Clubs
Auditions for the Caltech-Occidental
Glee Clubs are on
at 8:30 pm. Each month the com-
mittee meets to discuss plans for the following month and
couple dances from all over the world.

Come and join us for folk dancing on Tues-
day evening at 7:30 pm at
in Del Mar and Los Robles. The club offers
a variety of dance styles from all over the world.

Grace Road Band
Is Monday, October 1.

Rules and Rulings
Students have two great once-in-a-
lifetime opportunities to enjoy philosophy this fall.
In classes with Professor Barbara Horan is offering PI 102,
Style, Thought: 1603-1689, Wednesday 1-4.
Professor Mark Ackerman, a leading
of philosophy of science,
Professor Barbara Horan is offering PH 525, Science
Philosophy: 1603-1689, Tuesday 7-9.

Mid-Atlantic Low: Predicted for Caltech
Indicate the date(s)
with the right place. If you don't receive your
master's students begins on October 29. NSF Gradu-
ate Fellowship and Minority Graduate Fellowship. Announcements (with the
for Caltech students are automatically en-
rrolled in the Mutual of Omaha medical
benefit of $75 per month-
the first $100 in medical ex-
penses up to the maximum benefit of
$50 per month charged to the student's
premium.

Come and join us for folk dancing on Tues-
day evening at 7:30 pm at
in Del Mar and Los Robles. The club offers
a variety of dance styles from all over the world.

Symphony Auditions
Auditions for the Caltech-Occidental Symphony Orchestra will be held on Sun-
day, September 30 from 1-4 p.m. and Monday,
October 1 from 3-6 and 8-10 p.m. in
in Del Mar and Los Robles. The club offers
a variety of dance styles from all over the world.

Student Health Insurance
All full-time graduate and under-
graduate Caltech students are automatically en-
rrolled in the Mutual of Omaha health insurance plan. After a $100 deductible--the first $100 of medical ex-
penses each academic year, the plan will pay
80% of the first $6,720 paid in covered
100% of the balance of covered
expenses up to the maximum benefit of
$100,000 for each accident and
every sickness.

In-October, Caltech students will receive a--a card and a book with the new
master policy number for 1990-91 aca-
demic year, and a brochure, explaining the insurance
coverage. If you wish to obtain
those materials, please contact the
Student Health Center.

Auditions are open to all students!
Students may only have
one code in any major
or minor area.

Come Play Music
Musicians who play woodwind, brass, percussion, string or keyboard instruments
are welcome to join Caltech Wind Ensemble.
Music Directors are Marc Konner and
Michael Silverman. Auditions will be held on Sunday,
September 30 and Monday, October
1 from 3-6 p.m. and 8-10 p.m. in
The event is open to all students!

Faculty Dancing On Campus
motivation for you to come and join us for folk dancing on Tues-
day evening at 7:30 pm at
in Del Mar and Los Robles. Dances
are taught from 7-9 pm to 9:00 pm, with dancing sessions 11:30-11:45
You may call for details at
893-5093.
CC Beaten by Poets
by Chris Campo

"Maybe I should go and get a blood test." Senior cross-country runner Mark Lytle pondered his performance in the first meet of the season — a hilly four-mile miler known as the Whititer Invitational at Ralph B. Clark Regional Park. Just as the park is bounded by two groups of huge, old olive trees, the fossils of dead prehistoric animals, so also it was a burial ground for the hapless Caltech track team.

With only five runners having returned to school for the September 15th meet, the Beavers were undermanned and outgunned. "We got our kick," said senior runner John Pham. Tech's men finished 11th in a field of 16 teams. The men have had Whititer as an archrival for the past two years, and have succeeded in beating them soundly in the past. At the Whititer Invitational, however, Tech managed to come up with 286 points to Whititer's superior 128.

"I think that was the worst race of my Caltech running career." — Mark Lytle

Unfortunately, lower scores are better in the sport of cross country.

The one bright aspect of the meet for Tech was the impressive performance of returning junior runner Dan "Terminator" Flores. Flores was 26th in a field of 110, finishing ahead of every Whititer runner but one in a time of 24:12. The rest of the Beaver pack lagged a ways behind the Terminator, with the Beaver being kicked in the last two laps.

The rest of Tech's men were unable to put a dent in Whititer's armor. Mark Lytle, finishing 23rd in a respectable 25:30, said, "I thought that was the worst race of my Caltech running career," the usually upbeat Lytle.

On Saturday, the Beavers were back to take another crack at Whitier — this time on their home course at the Lower Arroyo Park, in Pasadena. This time the men had some ammo, stoked with the arrival of transfer student Aaron Matzner from Whitman College.

The Beavers improved in relation to Whitier's running the Beavers were back to take another crack at Whitier — this time on their home course at the Lower Arroyo Park, in Pasadena. This time the men had some ammo, stoked with the arrival of transfer student Aaron Matzner from Whitman College.

The Beavers were back to take another crack at Whitier — this time on their home course at the Lower Arroyo Park, in Pasadena. This time the men had some ammo, stoked with the arrival of transfer student Aaron Matzner from Whitman College.

"I think that was the worst race of my Caltech running career." — Mark Lytle

Unfortunately, lower scores are better in the sport of cross country.

The one bright aspect of the meet for Tech was the impressive performance of returning junior runner Dan "Terminator" Flores. Flores was 26th in a field of 110, finishing ahead of every Whititer runner but one in a time of 24:12. The rest of the Beaver pack lagged a ways behind the Terminator, with the Beaver being kicked in the last two laps.

The rest of Tech's men were unable to put a dent in Whitier's armor. Mark Lytle, finishing 23rd in a respectable 25:30, said, "I thought that was the worst race of my Caltech running career," the usually upbeat Lytle.

On Saturday, the Beavers were back to take another crack at Whitier — this time on their home course at the Lower Arroyo Park, in Pasadena. This time the men had some ammo, stoked with the arrival of transfer student Aaron Matzner from Whitman College.

The Beavers improved in relation to Whitier's running...