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# The CALIFORNIA Tech

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Volume LXXIV

Pasadena, California, Thursday, May 24, 1973

Number 30

## The ASCIT BOD Is Tending to Become Progressively Weird

by Dennis Mallonee

This Monday's BOD meeting resembled nothing as much as an orderly precession. The BOD approved the results of Friday's elections, amended run-off procedure, removed the salary of Social Chairmen, appointed two new men to the Excom, tried to send Johnson on a crusade, and much, much more.

The meeting began at 4:19 with a quorum consisting of Johnson, Jack, Peisner, Mariani, Coleman, Manis, and eventually Rutherford. Massey was conspicuously absent, as was Wakai—no one else was conspicuous. (It was suggested that Wakai was at a football game. It was also suggested that Massey's cat was going through menopause, but that's beside the point.)

Bob Rutherford was sworn in as the new Director of Student Life. Pete Beckman and Greg Simay were sworn/affirmed in as Social Chairman. (That put Rutherford on the BOD—much to Johnson's later embarrassment.)

### Hurray for Gavin!

Coleman/Mariani moved to adopt the Election Chairman's recommendation for a change in the resolutions that will amend the procedure for elections run-offs. Under the new system, when five or fewer parties are nominated for an office, the top two (or more, in case of a tie for second) vote-getters will compete in the run-off; when six or more are nominated, the top three (or more) will be put on the run-off ballot. Further, the candidate who receives a plurality in a second run-off (when necessary) will become the new officer. Passed (6-0-0). ("Six?" "Six." "How did we get six?" "Rutherford's on the BOD." "You just swore him in." "Oh, well move

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## News Briefs

## Football Practice Starts Wednesday

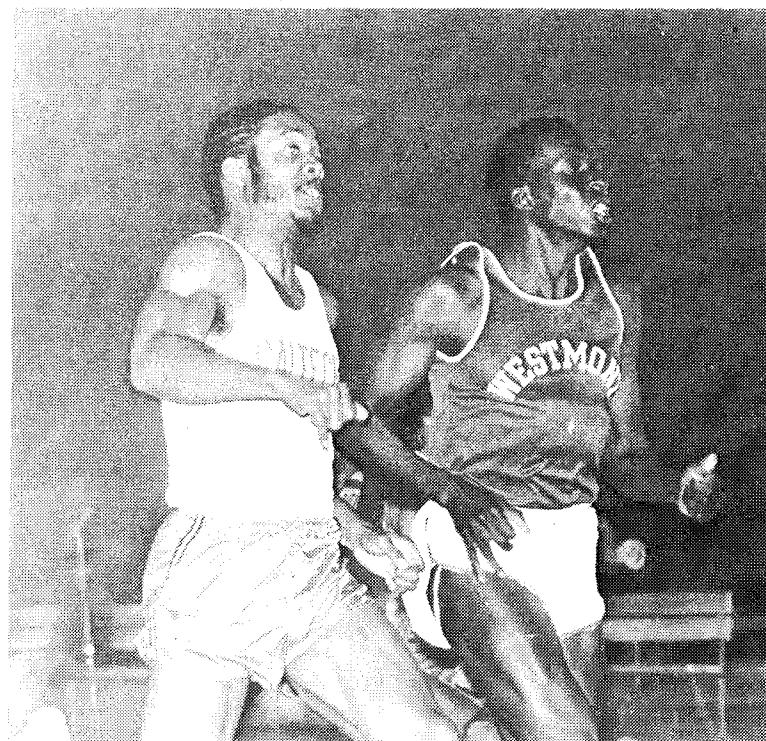
The Caltech football team will be holding spring practice next week (just like the professional college teams do!). On Wednesday and Thursday afternoons next year's squad will run through plays and generally have fun (no hitting) practices. Note that these practices will come on the two days immediately following the last interhouse game.

Interested players should contact Coach Gutman or a member of the team for further information. You must meet, or expect to meet, the NCAA eligibility requirements—Caltech doesn't want to end up with a record like Oklahoma had last year!

## Biology Tutorial Topics Available

The list of Biology tutorials (Bi 23) to be offered next term

Eck bases itself on the



HAYWOOD ROBINSON (left) set a new Tech record of 21.5 in the 220 last week at the district meet, but was edged for second place. Photo by O'Meara.

## The State of the Honor System

by Bryan Jack

From the beginning of first term to the present date, 14 undergraduates have been convicted of Honor System violations. Although this figure represents less than 2% of the Tech population, it is still higher than the "historical" average of six violations per year that the BOC has acted upon. It is my opinion that this increase does not indicate a general weakness or collapse of the Honor System; however, there seems to be a lack of understanding or thoughtfulness by some Techers of certain areas of application of the Honor System.

Four of this year's convictions involved instances where a student used a master key to enter, without prior authorization, a private office or other restricted area. It should be obvious that all members of the Caltech

community have a right of privacy and have a right to secure against unauthorized entry those areas that contain their possessions or items they are responsible for. Unfortunately, the individuals involved in the above cases gained unauthorized entry either knowing in advance that they did not have permission to enter or, without checking for permission, entered areas that were locked and which they could reasonably have deduced needed prior authorization to go into. The role the Honor System plays in unauthorized entry is rather simple: Techers are generally allowed to use large areas of the campus whether or not they happen to be locked up. Lots of areas, however, are either private offices or are the special responsibility of certain individuals and thus are off limits to random people. Master keys come into

the issue only to the extent that they are the simplest way to get into a locked room; since they allow the user, whoever he or she may be, to enter private areas, Techers are expected to use any master keys they may have with considerable forethought and to lend them out or allow them to be copied only if they are prepared to accept responsibility for how the keys are used.

The biggest impediment to perfect operation of the Honor System is not malevolence but seems to be, rather, apathy and lack of foresight. By failure to consult authorities, the Honor System booklet, or BOC reps, several Techers have proceeded into activity that violated the Honor System. Several other Techers, with greater alertness, could have forestalled Honor System violations that their friends committed, and the BOC felt that one such person so endangered the Honor System that that individual himself was convicted of an Honor System violation. As has always been the

## Student Vigilance Needed

## Crime Wave on Campus

by Eric Eichorn

Caltech has been experiencing a disproportionate amount of crime in the last few weeks, although there has been much less this year than in 71-72.

So far in the month of May there has been theft of Institute, faculty, staff, and student property totaling over \$3,000, as well as a physical assault. Theft to date this academic year (since July 1) totals approximately \$30,000. The total for last year was \$48,000.

The property stolen this month includes two motorcycles (one of which was recovered), \$675 worth of hand tools from a B&G truck, a television camera and monitor from Biology worth \$1,200, \$60 in cash from gym

lockers, \$85 in tools from a Geology truck (plus damage to the vehicle sustained in breaking in), a bicycle valued at \$100, and a blowing machine used by the groundsman to blow leaves off of sidewalks, which costs \$130.

### It's Noisy, But...

It was noted that the latter machine makes a lot of noise, and that the groundsman tend to use it at early hours of the morning, and that possibly a student who values his sleep removed the offending machine. It should be pointed out, however, that the machine is worth a lot of money, and that there are better ways to protest noise.

Joel Everson, a Caltech grad student, was assaulted and battered outside Keck House shortly after the end of the Holliston block party last Friday night. Security has a possible suspect, and would appreciate it if any witnesses would contact them to help identify the assailant, or to provide any other information.

### "Feet Back and Spread 'em!"

Recently two non-Techers who had been caught trespassing on campus before and had been warned to stay off were caught in the game Room, due to the alertness of a Teacher who was in the room at the time. When Sgt. Wiley responded to the call, the pair found themselves up against the wall being frisked and finally marched out in handcuffs. They were charged with burglary, which was reduced when they pleaded guilty to the lesser charge of trespassing. One of the conditions of their probation is that they stay off of the Caltech campus.

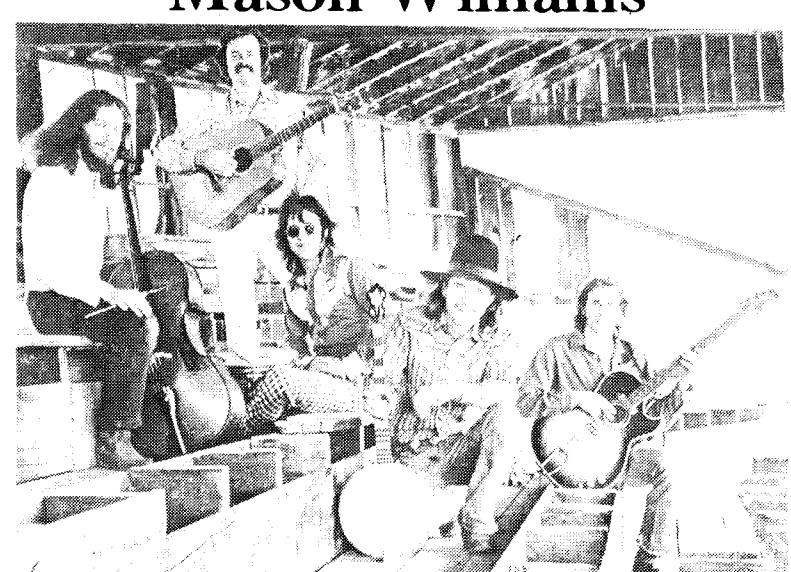
Security measures in the trouble areas have been increased, and officers are being detailed to

Continued on Page Five

## Class Run-off Elections Today

Candidates listed on Page Four

## Mason Williams



MASON WILLIAMS & The Santa Fe Recital will be appearing next Thursday (May 31) in Winnett Center.

## Sierra Club Desert Symposium at UCR

The Sierra Club's second annual Desert Symposium takes place Saturday, June 9, on the Riverside campus of the University of California. The all-day event starts at 9 a.m. and is open to the public without charge.

Featured will be slide shows, displays, discussions, and a full-length movie—all designed to show how the natural beauty and

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**Editorial**

# The HSS Requirement

Early next month, the faculty will be voting on the restructuring of the 108-unit Humanities and Social Science requirement. We support the proposal approved by the Faculty Board in April.

Everyone has his own idea on what the requirement should be, and sometimes two. The Faculty Board proposal, which modified a similar proposal by the Curriculum Committee, consists of 27 units labelled English, History, Philosophy, Music, and Art; 27 units labelled Anthropology, Economics, Political Science, Psychology, and Social Science; and 54 units from any of the courses offered by the HSS Division, with no more than 27 units labelled Business Economics and Management. It seems to us that this arrangement satisfies the objective of the requirement (the "broadening" of the science-oriented Teacher's knowledge) while leaving him a variety of courses from which to choose.

We oppose any change that would make this requirement more restrictive. Any attempt to eliminate credit for certain groups of courses (such as business economics or language) will negate the advantages contained in the proposal. And we are steadfastly opposed to an increase in the required number of units in either of the two areas. Such an increase would not only make the proposal the most restrictive of any proposals offered this year, but it would be more restrictive than the current requirement!

Many hours of discussion have resulted in the compromise to be presented to the faculty next week. We feel that it is an excellent compromise, and support it wholeheartedly.

—Gavin D. Claypool  
Eric H. Eichorn  
Dennis L. Mallonee

# Energy Conference

by Etaoin Schroedlu

Last week Sacramento, California, home of our esteemed legislators and executives, played host to an Energy Workshop conference, instigated by ex-Mole Ed Reinecke, now Lt.-Governor of California. Two Caltech people were at the conference, Professor Lester Lees, the director of EQL, and Dr. John Holdren, of EQL and the Population Program. Last Thursday they reported some of their comments on the conference to a seminar at EQL.

Professor Lees, who was the conference's general chairman, noted that "you can't expect unanimity" at such a conference, containing representatives from

business, academia, environmental groups, and government. However, Lees said that there was a surprising degree of "general agreement that we had to reduce the rate of growth of consumption of energy." Even doing everything that we can reasonably and quickly do to lower the rate of growth, it's going to be "necessary to go all-out on the supply side" to ensure that fuels are available. This, in all likelihood, means both massive fuel imports and massive development of new nuclear power plants.

**Day in Sacramento**

Unsurprisingly, there was great disagreement in the governmental

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## THE ASCIT FRIDAY NIGHT MOVIE

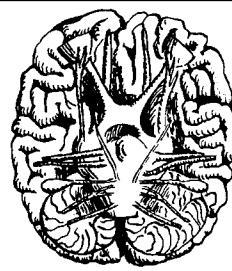
# KLUTE

This Friday in Baxter Lecture Hall  
at 7:30 and 9:30 p.m.

**Admission: 50¢—ASCIT members and  
their guests; \$1.00—anyone else**

**NEXT WEEK:**

# ZACHARIA



# from the cerebrum

## FORUM

To the people of the Caltech community,

Thank you for the last four years. It's been fun.

Sincerely,

—Bruce Reznick '73

### Kent State

### Foreign Study

Four national organizations have joined Kent State University in the further development of the Geneva Semester on the United Nations System, a unique overseas academic program created by KSU's Center for International and Comparative Programs.

The program is open to qualified undergraduate students, regardless of major, in colleges and universities in the United States.

English is the language of instruction and courses are taught by KSU faculty and adjunct professors from Swiss universities. As many as 32 KSU quarter hours may be earned through participating in this program. Credits are transferable to all colleges and universities. Applications are available through the Center for International and Comparative Programs, Kent State University, Kent, Ohio 44242.

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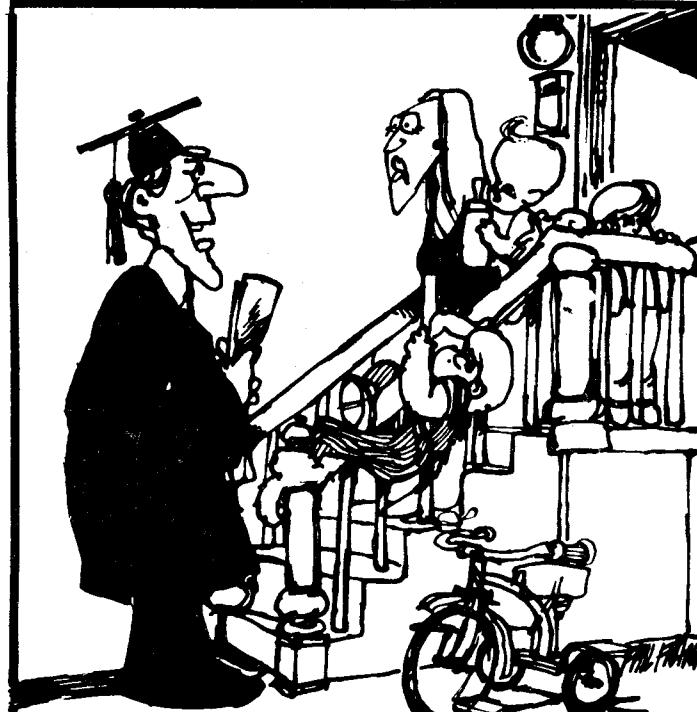
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## FRANKLY SPEAKING

by Phil Frank



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Crazy Darbs

# Public Opinion Trods In

by Steve Sweeney

"Surely you remember me, we have met before; my name is Disturbance. Has it been so very long since our paths crossed?"

-Rosemary's Sad Phantom

As you will remember from our last episode, dear reader, we left boiling oil man Ross McCollum slamming down the sluice gates and damming up the million dollars he was going to

give to Caltech. The local newspapers, smelling a hot scoop (as they are wont to refer to it), contacted the petroleum man at Sixth and Grand (his office) and dug out all the grimy facts. The story rocketed across the country (on dollar power, it has been rumored), and millions of Americans read the situation for themselves.

And they responded, dear

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reader! Yes, they responded and a torrent of letters (and \$12) has been pouring into Dabney House; maybe one or two letters a day, even. The people are making their feelings known. And the people's opinion is overwhelmingly (10 to 2) for the Darbs.

Ms. Carolyn Ramos of Arcadia contributed \$2 and commented, "To hell with Ross McCollum! Say what you want when you want to! Free expression in a free society!" Ms. Janis Johnson wrote, "Be not dismayed if your institution has lost \$1 million because you challenged your

country and its people to get down to the truth."

Mr. Gene Hopp of Aurora, Colorado addressed a letter to McCollum, a copy of which was sent to Dabney. He writes, "...the 'New Left' is not all that interested in getting your money. The fact is, since you will not be taking it to the hereafter, it will probably come to them soon enough anyway." Jean Thibault of Oceanside, California gave \$10 to the Darbs in partial replacement of the vanished million and commented, "Let's show Mr. McCollum that his lousy million, if given in the spirit with

which he gives or withholds, doesn't amount to a hill of beans either altruistically or monetarily."

The two anti-sign letters are particularly interesting. One is from one Archie Bunker, and though Mr. Bunker neglected to give his address, the letter is postmarked from Cleveland, Ohio. It reads in part, "Well I see all you Vacume (*sic*) heads wanted to see how much trouble it would cost you to put up your Impeach Nixon sign. I see it cost you Hippies a Million Bucks..."

**Continued on Page Seven**

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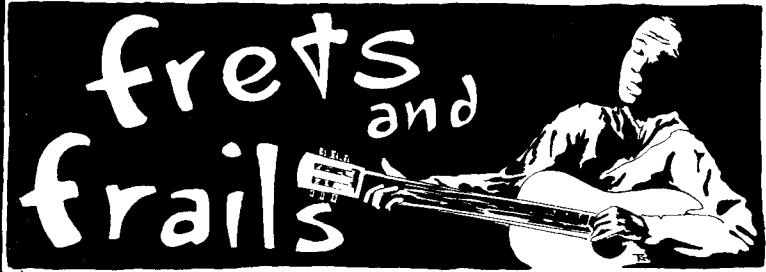
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# Graduating?





"...But lay off of them blue suede shoes." Mag Wheels and the Lug Nuts are back at the Ice House, this time as the featured act. The longer set gives them a chance to display both their strengths and their weaknesses more fully. After 16 songs, either the performer has done a good job, or the audience begins getting tired. In this case, the performers seemed to be getting tired before the audience had a chance to. The set started off with some of the classics, "Blue Suede Shoes," "Teenager in

Love," "Angel Baby," and others. It seemed, however, that it took half of the set for everyone to get really enthused. The finish made up for it. "On Broadway," "Stay," "Johnny B. Goode," "Little Latin Lupe Lu," and "Rock Around the Clock" covered most of the good parts of the music of the 1950's, and they were the best performed of the set. If the rest of their music could be of the same quality and energy, Mag etc. would be great. As it is, I can only call them good, especially until their instru-

Y, the most important activity on campus in many ways, all seem to have other interests as well. Eliminate thirty or so undergrads, and there wouldn't be any extracurricular groups left on campus.

#### and Caltech:

Techers, of course, are notorious for their lack of concern for matters at all removed from their specific fields of interest and personal concerns. (This is more true of the students than the faculty, of course; by and large, the great scientists on Caltech's faculty will be found to be 'Renaissance men.' Our most recent three Nobel Laureates are good examples.) Concern is often expressed verbally (generally in a negative way); it is rarely translated into practical action: "I can't make it that day." "It won't matter anyway." "Sorry, I have to go snake."

Activities at Caltech, whether intended to affect the world at large or just the Caltech community, suffer a great deal from student apathy. A few student activities succeed: the Musical, some of the sports teams, occasional House activities. More barely struggle along, or fail outright. Almost all owe their existence to the blood, sweat, and tears of a very small number, many of whom carry the load in several different activities, God knows why. Some people may have noticed that of late the ASCIT Publications seem all to be put out by the same group of people, in "interlocking editorships." A power grab? Hardly. In fact, the result of an absolute lack of anyone else to do the job. The Tech is grossly understaffed, and most of what staff it does have seems intent upon killing itself trying to put out our yearbooks, handbooks, and literary magazines. The students on the Excomm of the Caltech

## THE CALIFORNIA TECH

mental weaknesses disappear.

I was informed that Mag Wheels and the Lug Nuts are considering doing other music occasionally, including early 60's and surfing music. With vocals their strongest point at the moment, they could do some interesting things.

Larry McNeely opens the show with some really fine banjo-pickin' and singing. He does some songs of his own composition as well as some of the standards. He is accompanied by a guitarist named John, and between them they put on a good show. Larry McNeely has been a regular on the Glen Campbell Show, but try not to hold that against him. Larry McNeely even managed to improve "Dueling Banjos," a song that I thought I had grown bored with. Now I'll have to find a copy of his album to listen to.

see no reason to believe that unconcern at the College level is good preparation for becoming concerned at later levels, when conditions can be expected to be a good deal less Utopian.

t. t. b. o. a. i.

So what is to be done? What will happen, of course, is that opportunities will continue to exist, even at Caltech, for expansion of concern, for meaningful contribution to some social solution, for non-scientific education; for giving a damn, and that most Techers will continue to ignore these opportunities, although some will continue to get very worthwhile experiences in them. Where all this leaves Caltech is not clear, and what can be done to improve the situation is less clear, but it does seem certain that in this world you get at best what you deserve; somewhere somebody is ready to hand us all Watergates and Viet Nams ad infinitum as long as we don't care enough to keep on guard against it. There is a lot to be done, and Caltech is a far better place than most to start, even if the activities here seem irrelevant when compared to the classroom work. It's educational, it's relaxing, it's fun, it's good for you.

Don't let it die.

Denny Johnston is the middle act on the bill, a comedian and singer who ought to be given more time for his act. He does standard impressions in a non-standard way, as well as a few things most comedians couldn't do (like songs and skits with music) or wouldn't attempt (like the interplanetary folk singer bit). In addition to all of the comedy schtick, Denny Johnston is quite a passable singer and songwriter, and should do more of both. I enjoyed his act a great deal.

Since no one knows whether or not the Rivet will contain anything real, I'd better mention now that the featured acts for the next few weeks are, in order of appearance, Oliver, Tim Morgan, The Hello People, John Stewart, and the Dillards. That runs through the end of June, and after that, you get to fend for yourselves.

-Nick Smith

**THE RIVET** is the real thing, baby.

## Candidates For Class Officers

JUNIOR CLASS PRESIDENT  
LOU SCHEFFER  
RIK SMOODY

JUNIOR CLASS VEEP  
DAVE NOVIKOFF  
PAT SITTON

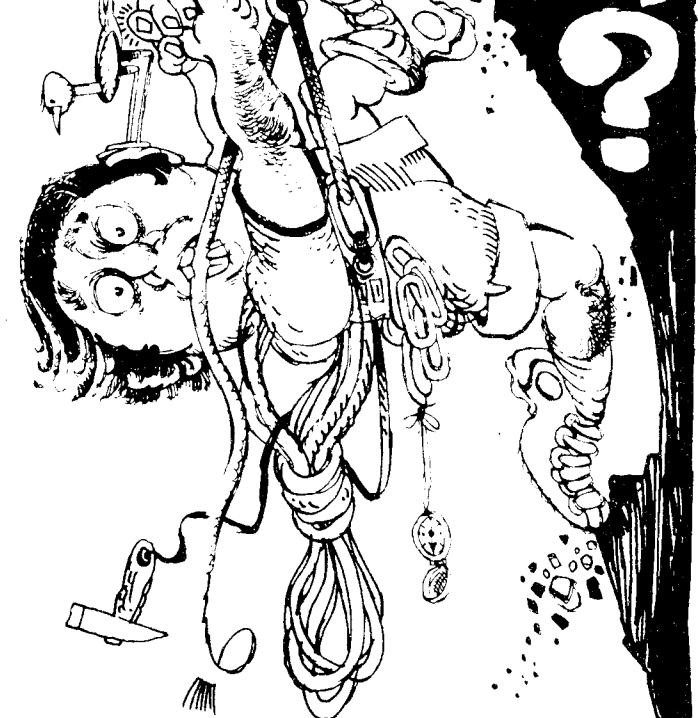
SOPH. CLASS PRESIDENT  
JACK BACON  
PETE THEISEN

SOPH. CLASS SECRETARY  
PAUL GOODSON  
DENNIS WANG

SOPH. CLASS TREASURER  
MARK BAILS  
DENNIS MALLONEE



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**Oh, Really?**

## No More Policemen

Better protection against crime can't be purchased merely by hiring more police or raising police salaries. So concludes a study of the nation's 30 largest urban areas just released by the Council on Municipal Performance, a non-profit research organ-

ization with offices in New York and San Francisco.

The study found that cities with more police per capita had higher FBI reported crime rates than cities with fewer police. Furthermore, an increase in the police force was not followed by

proposal for increasing campus security, announced by Dave Drake at the ASCIT corporation meeting, which would supplement the Security force with students, who would do routine work such as locking and unlocking doors, turning on and off lights, and watching for suspicious activity of any nature. This frees officers for more patrolling, and increases the number of eyes and ears available to guard the campus. (Students would be instructed not to tackle burglars, but to radio officers for help, and leave such work to the professionals.)

It should be pointed out that any theft from the Institute ultimately hurts the students, and that therefore everyone should stay alert in an effort to minimize further losses.

"That's Officer Drake."

Being given serious consideration by Safety and Security is a

special patrols in these areas. Further reduction of losses is best obtained through the cooperation of the members of the Caltech community who report suspicious activity to Security (ex 1702). Security officers have also been instructed to inspect packages they see persons carrying off campus, and anyone removing instruments, machines, etc. from campus is advised to have written permission from the person responsible for said articles, unless he wants to waste infinite time while he is checked out.

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a significant decrease in the city's crime rates as reported the next year and the year after.

Attacking another common belief, the study found that poverty doesn't seem to affect crime rates. As Arthur Carol, COMP's Research Director and the main author of the study, says: "The Federal Government measure of poverty, the percentage of families earning a low income, is not related to crime rates.

### Obviously

"Instead," Dr. Carol says, "what seems to affect inter-city crime rate differences is the degree of income inequality in a city. Cities with the greatest income inequality have the most reported crime."

COMP's 40-page report, entitled "City Crime," notes that while income inequality is related to both violent and non-violent

## Food Service

Continued from Page Two

be an added, but not necessary, attraction. The major benefits to a house as a cohesive social unit accrue mainly through announcements conducted at the end of the meal. These could continue whether service were cafeteria style or waited, provided that the membership of the house eats in the same dining room at the same time.

Some students have expressed heightened interest in setting up smaller (i.e. single house) food services utilizing the south complex kitchen. Any of these notions will ultimately depend on the cooperation of the Institute in making the facilities available. Given that situation, it seems that the Institute ought to take an interest in any such arrangements from the start.

Until something like an alternate food service appears, house living and eating could be grim.

crime rates, the racial composition of a city is associated significantly only with violent crime rates.

After discovering these relationships, COMP adjusted the FBI crime rates for the 30 cities in its study. "We want to show roughly what the crime rates would look like if each city faced the same economic and racial makeup," explained John Tepper Marlin, COMP's Executive Director.

### Mayor Sam Wasn't Home

In an attempt to obtain some information on police attitudes and deployment, COMP's researchers requested information from the mayors of the 30 cities studied, asking about their favored methods of law enforcement and their major obstacles in fighting crime. All of the cities except Los Angeles cooperated. The cities consistently named the courts as a major obstacle, whether because cases weren't coming to trial or because the penalties that were being handed out were too lenient (or both). Only the cities with the worst crime control records, including New York, blamed the court problem on inadequate court funding.

## Honor System

Continued from Page One

case in Caltech's history, the effectiveness of the Honor System is the product of the 800-odd Techers who are not members of the BOC. Only through a responsible student body can we have an Honor System that works so well that it can be supervised by one person (carry... 4 units, I may add) doing all the investigation necessary for enforcement and one BOC composed of representatives, each of whom hears all of the lengthy cases brought before it each year.

None of the five cities with the best crime control records complained of inadequate funding, even though they tend to have fewer police per capita. Yet three of the cities with the worst ratings, including New York, cited inadequate funding as a major problem.

Four of the five cities with the best records cited police-community cooperation as an important crime-fighting weapon, while of the five with the worst records only one, New York, did. None of the cities with the best records mentioned lack of community cooperation as a major obstacle, but half of the cities with the worst ratings did.

### What Can a City Do?

Summing up the study's implications, Dr. Marlin noted first of all that the nation needs better crime statistics. "In view of the intense national interest in reducing crime, it is astonishing that we don't have better crime reporting."

Beyond that, Dr. Marlin said, "the study shows how many factors are beyond the control of city governments. Income inequality is widely viewed as a Federal problem. Racial composition is a reflection of migration patterns over which cities have little control, and the relationship to crime results from such problems as labor market discrimination which can possibly be effectively attacked only on a national scale. The courts, which police departments consider a major obstacle to crime control, are mostly State-run, beyond the jurisdiction of the cities. Even increasing expenditures on police doesn't seem to have an effect, by itself. Cities do not seem to have powers commensurate with their responsibilities.

"What is a city to do? It could attempt within its borders to reduce income inequality or labor market discrimination (or at least not increase them); work with the state to improve the courts; and try to improve the composition and deployment of its police force. On the deployment side, however, the cities seem agreed in their emphasis on radio communication and patrol.

### HOUSE TO RENT TO TECHERS

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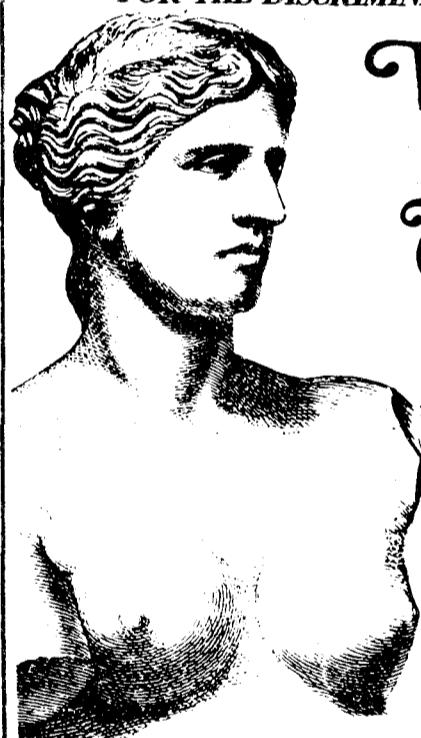
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## THE ADVENTURES of the TECH TRIO by H. Wink & D. O'Malley

As Major Be-Zork and the MULLIKAN ORACLE DISCUSS THE FATE OF CAPTAIN JELLO, LIEUTENANT SQUIRREL HUSTLES BACK FROM GLENDALE-- STILL MYSTIFIED BY HIS SUDDEN LOSS OF POWER!



### Energy

**Continued from Page Two**

policy subcommittee on the recommendations to make for future energy policy. It was generally agreed that there should be some sort of office for energy matters in the state government, in the executive and/or legislative branch. Mention was made of creating an 'Energy Facility Site Committee,' but no agreement was reached on details. Lees hailed this direction as "the beginning of a land-use plan" in Sacramento. At present the Atomic Energy Commission does not have the authority to keep the areas surrounding nuclear power plants at low population density once the plants are opened, which is one undesirable effect of the lack of a coherent land-use plan.

Other suggestions aimed at conservation of energy by different engineering, in particular of automobiles. Economic incentives, including stiff graduated taxes on cars weighing more than

1600 or 1800 lbs. or having large engine displacements were suggested. One Chrysler Corp. executive was present, and surprisingly quiescent in the face of such suggestions.

#### Pres. Staff Bites

Dr. Holdren reported that one representative of the Department of the Interior said that Interior would soon create an Undersecretary position for energy conservation. One White House staffer seemed disinclined to admit that there was much of a problem, as supplies are only a percent or two below demand at the moment, a deficit that could be made up by lowering the nationwide speed limits to 50 miles per hour for all roads.

Siting of nuclear power plants was also discussed. One report classified barges in man-made lagoons as the best method from the point of view of environmental concerns, a conclusion which did not gain much support from EQL.

"There was an amazing degree of agreement that drastic steps would have to be taken to reduce the increase of demand," said the conference participants. "Considering the composition of the group, there was also surprisingly little effort to blame environmentalists for the situation."

Among the suggestions made

and more or less seriously considered were to outlaw air conditioning in automobiles, require efficiency standards for automatic transmissions in cars, and apply minimum efficiency requirements to buildings.

One question of general interest at the conference was whether the current gasoline shortage is genuine or contrived by the oil companies. The Interior representative said that it was genuine, although some other individuals present disagreed. The representative also noted that antitrust action may be brought against the major oil companies due to the current squeezing-out of the independents. The question was also raised why the oil companies had not been building refineries to meet the current rising demand. Apparently the answer is that refineries weren't expected to provide as large a return as other investments which the oil companies made.

### Eat My Rivet

This edition done Wednesday, well after deadlines.

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## A Myriad of Awards

The awards below have been received over the course of the past few weeks. The editors regret that space limitations have prevented us from reporting them until now.

Five Caltech undergraduates were honored at the Eleventh Annual Mathematics Awards Banquet, held under the auspices of the Mathematics Committee on Prizes.

Cash awards from the William Lowell Putnam Foundation were presented to Arthur Rubin, Michael Yoder, Bruce Reznick, James Shearer, and David Dummit for their high performance in the Putnam competition, a national mathematics contest in which the Caltech team won first place, both this year and last. This year's team consisted of Rubin, Yoder, and Reznick.

Bruce Reznick, a senior mathematics major, was also awarded the E.T. Bell Undergraduate Mathematics Research Prize for his paper entitled "A Uniqueness Criterion for Fractional Iteration." James Shearer, a freshman, received the Morgan Ward Prize for his solution of a geometrical problem concerning quadrilaterals.

The Bell and Ward Prizes are financed by funds that have been awarded over the past years to the Mathematics Department for outstanding performance by the Caltech teams in the Putnam Competition.

\*\*\*\*\*

Dr. Gerald J. Wasserburg, professor of geology and geo-physics, has been selected as a recipient of Columbia University's Kemp Medal "for distinguished public service by a geologist."

The head of Caltech's Lunatic Asylum was honored for his major role in the direction of NASA's lunar projects and his significant interpretations of the nature of the moon.

Dr. Wasserburg has received many honors for his work in aging material from the earth, moon and meteorites, and for developing very precise techniques to accomplish this. He is recipient of the Geological Society of America's Arthur L. Day Medal for the use of the methods of physics and chemistry to

increase the understanding of geological problems and has received NASA's Distinguished Public Service Medal and NASA's Exceptional Scientific Achievement Award.

\*\*\*\*\*

Dr. Howard M. Temin, professor of oncology at the University of Wisconsin's McArdle Laboratory for Cancer Research, is the recipient of the 1973 American Chemical Society Award in Enzyme Chemistry.

Selection of Dr. Temin, who is 38, was in recognition of the work titled "RNA-dependent DNA polymerase in virions of Rous sarcoma virus." First published in *Nature* in 1970, this development led to "an extremely exciting and fruitful era in cancer research," according to Dr. Temin's associates.

"Dr. Temin's discovery stimulated workers in many laboratories throughout the world to further explorations of the meaning of this finding which opens a new chapter in molecular genetics," the nomination stated.

Sponsored by Pfizer Inc. since 1945, the award is presented annually to an American scientist, not over 40 years of age, engaged in non-commercial work who has distinguished himself by outstanding achievement in enzyme chemistry. Purpose of the ACS Award is to stimulate fundamental research in enzyme chemistry. Members of the ACS may submit one nomination each. Pfizer has no voice in the selection of candidates.

\*\*\*\*\*

Dr. Clair Patterson, research associate in geochemistry at Caltech, was awarded the J. Lawrence Smith Medal and \$2,000 from the National Academy of Sciences on April 23, in Washington, D.C.

Patterson was honored for his analysis of varieties (isotopes) of lead in meteorites that established the age of the solar system at 5.6 billion years. Recently he has applied isotopic methods to learning the history of ancient and medieval metallurgy and coinage.

Continued on Page Seven

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Good Luck, Coach

## LaBrucherie Retires—Still on Top

A career—what does it mean to the person who has experienced it and to those who have been influenced by it. The answers, of course, are many and mean something different to each participant in the long line of time.

This week a career will end in retirement for Bert LaBrucherie; a career that has spanned almost forty years as a teacher and coach. It started after a brilliant four years as a player at UCLA and began as the lightweight football coach at LA High School and now it ends at Caltech after a 24-year experience as a coach and foremost as a teacher at the Institute.

LaBrucherie was something more than the often-pictured athletic coach—he had to be to stay at Tech since 1949. He is above all else a teacher and a motivator of those who came in contact with him.

**Winning Track Record**

His retirement will mark the end of a truly unique period at the Institute. For after 24 years, thanks to 12 courageous men at Whittier several weeks ago, LaBrucherie will step down with a winning track record. His teams won 107 and lost 105 during his tenure at CIT.

At most schools a winning

record wouldn't mean a great deal, but in terms of accomplishment the record must stand alone in Caltech athletic history. By teaching participation and achievement LaBrucherie was able to motivate Caltech track athletes to achieve beyond their known capabilities and as a result he will retire with a record unmatched by anyone else.

Coach LaBrucherie came to Caltech from UCLA in 1949 as football and track coach. He stepped down from the football post in 1968. In a difficult period for Caltech football, LaBrucherie's teams continued to play all teams and did a creditable job.

**Winning Football Season**

His only winning team was the 1957 squad led by Dick Van Kirk and Don Stocking. Van Kirk remembers the coach as a master strategist who always had the team well prepared, and in spite of playing teams with much more physical ability, Caltech was able to win due to his coaching. His winning year is the only one in the post-World War II period at Caltech.

In track the outstanding performer during LaBrucherie's years at Caltech has to be Phil Conley. Conley, who graduated in 1956, was a member of the

Jack abstaining for no apparent reason.

In a unanimous vote, (6-0-0), the BOD deleted Section 4 of Resolution III and thus the salary of the Social Chairman. ("We don't want it." "Good.")

Captain Jello and John Dilles, on the recommendation of the Excom, were appointed to the Excom. The addition of Claypool and Dilles changed the composition of the Committee slightly, to: three Scurves, three Page Dudes, one Flem, one Mole, and one Darb.

**Crusader Rabbit**

Coleman/Mariani moved to send Johnson on a crusade. ("I don't recognize that motion.")

1956 Olympic Team. The Olympic javelin thrower remembers LaBrucherie's telling him to forget his many track events and concentrate on the javelin, and as a result of that concentration, plus the coaching, Conley made the 1956 Games in Melbourne.

This year's track team probably has some of LaBrucherie's best athletes. Greg Griffin, Al Kleinsasser, Haywood Robinson, Charles Almquist, Brent Sweitzer, and Greg Hoit competed hard and assured the Coach that he would leave with a winning record. The team this year set seven school records and three of its members are competing in the National Championships this week.

**Alumni Pay Tribute**

LaBrucherie's win-and-loss record can be easily counted and cheered, but for anyone at Caltech there is more than a win-and-loss score. This is the reason why there are intercollegiate athletics and influences those who choose to participate on the program. Today many Caltech Alumni return to officiate at Caltech track meets because of their respect for LaBrucherie.

At Tech there are many available opportunities to participate, and this makes the role of

"He said . . ." "Oh, shut up.")

Mason Williams and the Belly Dancers will be coming on consecutive days at the end of this month, according to Johnson. No one was sure what Johnson meant by that. ("What did he mean by that?" "Exactly what he said." "Oh."). At this point, Jack/Manis moved to give \$100 and an ASCIT endorsement to Mason Williams's May 31 concert out of Winnett Center. No one offered to support the Belly Dancers coming the next day. The motion passed (5-0-1) Mariani abstaining.

**Always Complaints**

At this point the meeting digressed to complaints about the donuts and the absence of BOD members. ("Maybe eight dozen would be enough?" "But then we'd need 49 for a quorum!" "What?")

The meeting adjourned at 5:01.

The next BOD meeting will be held today at Lunchtime in Dabney House. Johnson's crusade will be discussed. After you finish voting, come and breathe the air.

the athletic coach different from elsewhere. LaBrucherie's teams have always had Techers coming out and trying to do something they, for the most part, didn't realize was possible.

The technique used was never pressure, but a careful buildup in conditioning in order to reach a goal at the right time. The other side of the coin is that the athlete always took great pride in his achievements, and for most it was long after his Caltech days when he realized why he made a certain mark or ran a certain time.

Athletics at Tech have a special and, more often than not, an unusual place. It takes an unusual teacher to coach and work with the teams. The Institute and athletes alike have been fortunate to have LaBrucherie as a teacher, and many alumni remember the teacher and will for years to come.

Probably his record as a

winner will never be duplicated. The record is something many point to with pride, but it is not the important part of his 24-year career. The important and lasting contribution will be the influence, no matter how subtle, LaBrucherie has had on the lives of Caltech students.

There are those on this year's team who will miss the coach; there are those who will never know him and thus never know what they would have gained; there are those on the faculty and staff who will miss the teacher. So a 24-year Caltech career ends.

The meaning is many things: its measurable success known; its unmeasurable success hard to document. It was a good career—good for the man, good for Caltech, and especially good for this writer. So long, my friend, and good luck in the paths of life . . .

—A friend.

## Awards

**Continued from Page Six**

The geochemist, who has been at Caltech since 1952, developed methods of using lead isotopes to study the dating of rocks, determining the age of the earth and meteorites, and tracing the evolution of continents.

He also is recognized for discovering that the oceans, atmosphere and lands of the earth are polluted with lead as a result of man's technological activities.

Dr. Patterson, born in Des Moines, Iowa, obtained his bachelor's degree from Grinnell College, Iowa; his master's degree from the University of Iowa, at Iowa City, and his Ph.D from the University of Chicago.

\*\*\*\*\*

A young California Institute of Technology chemist from Taiwan has been chosen to receive the second Herbert Newby McCoy Award for outstanding research in chemistry.

Ming-ta Hsu, 29, son of the dean of the Taipei Medical College and a graduate student at Caltech, received a gift of \$1,000 and a medal at a seminar Wednesday, May 2. Dr. John H. Richards, professor of organic chemistry, was chairman of the selection committee.

The award was established in 1972 by the widow of the late University of Chicago professor, Herbert Newby McCoy. At Caltech, Hsu has developed methods for using the electron microscope to map genes in DNA molecules

as a means of studying genetic functions within the cell. He now is working on new electron microscope methods for studying the arrangement of genes in the RNA molecules of animal viruses. His work has been supervised by Dr. Norman R. Davidson, professor of chemistry.

\*\*\*\*\*

The California Institute of Technology is the recipient of a fellowship from Phillips Petroleum Company for support of graduate education and research concerned with the engineering aspects of rubber substances.

The grant provides tuition and money for living expenses for Ricardo Bloch, a student from Colombia, South America. Bloch is studying for a doctoral degree under the supervision of Dr. N.W. Tschoegl, professor of chemical engineering.

The graduate student's research relates to the build-up of heat in rubbers, such as occurs in car tires in motion. Excessive heat is one potential source of tire failure.

## Darb Letters

**Continued from Page Three**

The other critical letter is from an M. F. Heidl (the signature is unclear) in Pasadena. He (or she) also sent a letter to McCollum and a copy of the letter to Dabney. Heidl writes, "...there are many people in our colleges and places of higher learning, [that] don't fit there at all."

But the most interesting piece of correspondence the Darbs have received thus far is a postcard from Joan Montecalvo of Miami, Florida. The text: "Do you know anything about my misrepresentation?"

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# The CALIFORNIA Tech SPORTS



Page Eight

Thursday, May 24, 1973

By Our Definition

## It's A Winning Season!

Several weeks ago there were twelve men on the Caltech track team, but last week at the NAIA District Championships only five qualified for the meet. The five—Greg Griffin, Greg Hoit, Al Kleinsasser, Haywood Robinson and Brent Sweitzer—scored 22 points, which enabled the Beavers to finish 8th in the 17-team field. This was the highest Tech finish in a number of years.

The outstanding Beaver sprinter, Haywood Robinson, accounted for twelve of the points with his two third-place finishes in the 100- and 220-yard dashes. Robinson, with fan club present and dressed in his usual style, found the right weather and track to put together four outstanding races. It also allowed him to read some poetry to Debato of Whittier, whom he easily defeated in each race.

### Another Robinson Record

The 100-yard trials and finals were held on Friday, and the 220 on Saturday. Robinson ran a 9.8 race in the qualifying 100, and in the final was timed at 9.9 for third place. The sprinter ran a strong race after a horrible start. The race was won by Faager of USIU in 9.6.

The 220 was held on Saturday on a cool evening. Robinson ran 21.8 in the preliminary, and then an hour later he put it all together to set a new school record at 21.5. The wind was an allowable 1.062 meters per second.

It was the finest race of his career, and after an excellent start Robinson poured it on to break his former record of 21.6. It has been some year for the sprinter—two new school records: 9.7 in the 100 and 21.5 in the 220. The Tech junior has improved over a second in the 220, which is an almost-impossible feat.

### Kleinsasser's Second

Al Kleinsasser for the second year in a row lost the 880 to Rich Tussing of Westmont. Kleinsasser finished second after leading the race until the last 80

yards. The outstanding middle-distance runner was timed at 1:52.3.

In Friday night's preliminary race Kleinsasser finished first in a time of 1:54.7. That marked his first appearance in two weeks in the 880, due to a painful foot injury. The lack of track work and the fact he led all the participants into a strong wind on the back stretch hurt in the final drive Saturday.

Kleinsasser passed the quarter-mile in a time of 54.6, but was unable to muster the necessary speed to hold off Tussing. Kleinsasser's splits were 27.5, 54.6, 1:23.5, and 1:52.3. It was another outstanding race for the Tech junior, but it also marked his first defeat of the year in the half-mile event.

### Nine Miles for Griffin

Greg Griffin, who for the past two weeks has concentrated his training for the marathon and who on Wednesday ran a 20-mile workout, entered the three- and six-mile events. As with Kleinsasser, the lack of track workouts hurt his performances in both races. The performances indicated, however, how tough the Beaver distance star will be in the marathon this week.

In the six-mile event, run on Friday night, Griffin finished in a scoring sixth place with a time of 31:18.4. Griffin ran an even race for the 24-lap event, which indicates that his efficient style will be helpful in his second 26-mile race this year at the National Championships.

Saturday night the distance ace was back on the track again for the three-mile event. He toured the track in 15:09 to place eighth. This was another outstanding track meet for Caltech sophomore Griffin.

### Hoit Blows A Tire

Another junior on the team, Greg Hoit, scored the last points for the Beavers in the championships with his sixth place finish in the 440 intermediate hurdles. Hoit, who still has a sore muscle, qualified Friday with a 56.1 time

## The Final Trophy Roundup

# Page Wins Two of Three This Time

by Bob Kieckhefer

Page House has won (or soon will win) two of the house athletic trophies this year, while Fleming has taken the third. The Page Dudes, defending champions of all three trophies, took the Varsity Rating Trophy by an overwhelming margin. When interhouse football ends tomorrow, they will have won the Interhouse Trophy by a sizeable amount.

Fleming House, which fin-

ished second in the Interhouse standings, edged Page 26–24 to win the Discobolus Trophy. The Flemms beat every house at least once in Discobolus action and used good timing to beat Page twice to win the trophy.

### Outstanding Athletes

Warren Emery, Director of Athletics, has announced that Al Kleinsasser and Gary Zieve have been jointly awarded the Outstanding Caltech Athlete Trophy. Kleinsasser, who also shared the

and on Saturday scored his points with a 56.9 performance.

In Saturday's run, Hoit lost his rubber tire left leg bandage at the 220 mark. The large black rubber piece slipped off at the halfway point in the race and flew into the air. It is seldom that a track athlete blows a tire in a race. This marked the last race of the year for Hoit.

### The Decathlon

Brent Sweitzer tried the most difficult of all track events, the decathlon. The ten different events were held on Friday and Saturday mornings. The Tech freshman finished with 5,086 points and eighth place.

This was an outstanding score for Sweitzer, who really only had

two weeks to work out for the event that crowns the world's best athlete at each Olympic Games. The finish also indicates that in the coming years Sweitzer will score much higher.

The all-around athlete was the team's most versatile participant this year and also one of the hardest workers. He received the team's Outstanding Frosh award, which was richly deserved.

### Successful Track Season

It has been an outstanding season for the small Tech squad. The final event of the year for Griffin, Kleinsasser, and Robinson begins on Wednesday in Arkadelphia, Arkansas, at the NAIA Championships.

award last year, was third man on the cross country team, a leading scorer on the track team, and holder of Tech's 880 and mile records. Zieve, captain of the wrestling team, was NAIA District III champion at 150 pounds.

Other spring trophy winners were Tom Howell and Phil Gschwend (Alumni Baseball Trophy, for the second year in a row) and Steve Poon (J. Ben Earl Golf Trophy). Kleinsasser and Haywood Robinson won the Goldsworthy Track trophy, Mo Nakatsui won the Scott Tennis Trophy, and Dave Standage again won the Novice Tennis Trophy.

### Final Discobolus Standings

Fleming	.....	26
Page	.....	24
Blacker	.....	10
Ricketts	.....	10
Ruddock	.....	10
Lloyd	.....	9
Dabney	.....	7

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