



RICHARD NIXON:

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This is Is NOT

The PME

Volume LXXIII

Pasadena, California, Thursday, May 11, 1972

Number 28

Conference On **Genetic Engineering Attracts Many**

by Etaoin Schroedlu

The mighty and the lowly mixed in varying quantities with various other sorts of individuals at last weekend's conference on Genetic Engineering, with such as Senator John Tunney, Dr. Arnold O. Beckman, and representatives of the power of the press gathered together with doctors, lawyers, Techers, ministers, professors and regular people to see and hear the activities.

Dr. Robert Sinsheimer of Caltech led off the morning speeches with a general review of the issues of genetic engineering, including such potential techniques as cloning, gene therapy, test-tube babies, and 'wombs for rent.' California Senator John Tunney followed with a position paper on genetic engineering from the legislator's point of view; the paper seemed to impress his audience a great deal. (The Tech tried to obtain permission to print that speech this week, but various copyright problems rendered that effort fruitless.) Tunney cited various time scales given in the literature, and discussed various legal and political issues which would come up from these topics. "Our legislative system generally works slowly - very slowly," said Continued on Page Five

BBB

Since the deep hole in the ground opposite Baxter existed before Monday's ceremony, the Institute conducted an event styled, "Ceremony marking the start of construction, Behavioral Biology building." Such dignitaries as Arnold O. Beckman, George Beadle, and Robert Sinsheimer spoke about the past and future of the Division of Biology and of the need for more work in behavioral biology. The Behavioral Biology Building will complete the "Court of Man," illustrated in model [left] and watercolor [center]. The dignitaries were presented with wood boxes containing plastic models of the human brain [right].

-Photos by Neches and Houk.



Alan Kleinsasser, Tech's sophomore sensation, breaks the tape to win the S.C.I.A.C. half mile. Photo by Bill O'Meara. Story on page eight.

The Caltech

Recycling Center

Needs Your Help

has been open for about three

weeks now, so you have a place

to dump all your old newspapers,

aluminum, and glass. However, it

seems that many of you have

perform those chronic rituals,

but what could one do with old

computer paper, cards, and news-

papers but burn them before

frustration. Well, have we got a

deal for you ... All the bundled

newspapers you could ever want

to throw, all the glass (separated by color and all metal removed,

of course) you could ever want

to break, all the aluminum cans

vou could ever want to stomp on

will be waiting for you at the

Recycling Center, if you come

through! Best of all - no

vou say, this is too good to be

true). Think of that exercise you

will get by regularly bringing

a catch. There is, but it's you!

You have to show that you

care and prove that apathy does

the Recycling Center needs you,

but to keep alive in the future.

Remember, to keep alive now,

Too much - there's got to be

your recyclables over.

not rule at Caltech.

There's an extra bonus (wait,

pollution.

You say those bonfires release

No longer are you forced to

forgotten already.

The Caltech Recycling Center

You and the draft...

New Registration Procedures

The Selective Service System has announced new registration procedures for the draft. Under the new provisions, a registrant must register with a draft board or a draft registrar within the period 30 days before to 30 days after his 18th birthday. He must bring some official type of identification with him when he registers, such as his birth certificate, Social Security Account Number card, drivers license, school or college activity card, or a credit card.

The new registration procedures are designed to make registration more registrantoriented and draft board operations more streamlined. Registration will consist of filling out a Registration Card. Additionally, a new Registration Questionnaire also must be filled out, although the registrant can take the questionnaire with him, or it may be mailed to him. He must return it within 10 days.

The new Registration Questionnaire requires the names and addresses of three persons outside the registrant's immediate family who will always know his address. The names, relationships, and addresses of all the registrant's family over age 16 also must be listed. In addition, the form includes questions inquiring whether the registrant believes he qualifies for a hardship deferyou need the Recycling Center. ment, for status as a conscientious objector, for a surviving son exemption, or for other Selective Service deferments and exempt-

The program will start around

10:00 a.m., with invited outside

Finally, every registrant must list a place of permanent residence, as well as a current mailing address. The draft board serving his permanent residence will be the registrant's permanent draft board, regardless of where he

When he registers at his own Continued on Page Four

Vietnam Protest Set For Tomorrow speakers with particular expertise

by Schroedlu

In the wake of the recent developments in South East Asia, student leaders at Caltech are staging protest and informational events on campus tomorrow (Friday). Speakers, discussions, petitions, and political activities will be among the planned events. At this writing, classes and work due are to be made optional, at the choice of the individual instruct-

Opinions concerning the international effects of the blockade and the other actions, and the reactions of the Russians and Chinese, will be discussed. At noon we hope to have

on the reasons for the President's

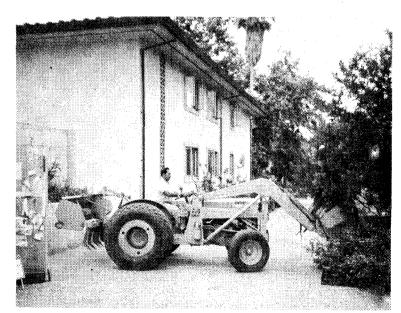
actions, and the possible results.

President Harold Brown to explain the situation, and answer questions. If President Brown is not available, there will be another expert, on Viet Nam and/or international relations.

At 2:00 we anticipate an opportunity for individuals to make statements at the microphone and perhaps there will be additional outside speakers with something to say. At this time there may be a protest action of some sort, if there is enough support at the

During the entire day there will be a table with press information on the situation in South East Asia and postcards and addresses of political figures available for those who wish to express their opinions. Other activities may develop later.

B&G Strikes Again



Our roving Tech polaroid recently caught this B&G troll experimenting with mechanization in an attempt to raise gardening costs an order of magnitude.

Editorial

BRINKSMANSHIP



Richard Nixon is most certainly the President — make no mistake about that. No one else in the free world has such awesome power, and no one else has ever used it with such a complete lack of discretion.

The mining of the North Vietnamese coastline is a significant escalation of a war that the American people are sick and tired of. It goes against the so-called stated policy of the United States government, and more importantly it goes

completely against the will of a people who elected Richard Nixon in 1968 because he had a "secret" plan to end the war.

This drastic action was accomplished in secret. The President did not see fit to ask the advice of the representatives of the people in this important matter; indeed, when he spoke Monday evening the mines had already been laid. In effect, he presented the people with a dangerous and totally unrevokable action.

This blockade is intended to "halt the North Vietnamese aggression" by stopping the flow of supplies into North Vietnam. We can doubt the effectiveness of this move. Aside from the question of how much the North Vietnamese are depending on outside supplies in the current offensive, there remains the fact that there are altogether too many alternate supply routes into North Vietnam. Despite heavy bombings the rail links into China have never been closed for more than a few days. And if the Soviet Union decides to send transport planes carrying war materials to Hanoi, what will President Nixon do? Have them shot down?

Worse yet, this blockade will inevitably lead the United States into a direct confrontation with the world's only other superpower. The ships we are trying to stop are not North Vietnamese — they are Russian, and the minesweepers that will undoubtedly attempt to remove the mines will not be North Vietnamese — they too will be Russian. The Soviet Union has a large fleet in the Indian Ocean which can easily be transferred to the Gulf of Tonkin. If this happens, the possibilities of dangerous situations arising are limitless.

President Nixon is treading very deep and very dangerous water. Let us hope that he can swim sufficiently well to keep this country away from the disaster that he has made possible.

—Peter W. Beckman

Gavin D. Claypool Jeffrey J. Mallory

ASCIT'S FRIDAY NIGHT AT THE MOVIE

"Epic battle of the sexes!"-Vincent Canby, N.Y. Times

RICHARD BURTON GENEVIEVE BUJOLD



7:30 p.m., Friday, May 12 in BAXTER LECTURE HALL

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

WINNING

the caltech forum

Up With The BOD Down With Scurves

Dear Editors:

I hope you will be able to print this short letter of thanks and disappointment.

I personally thank the BOD for picking up the torch of academic reform with an enthusiasm and resolve not seen since the time of Joe Rhodes. I whollyagree that a Caltech education should be one which focuses on educational and personal excitement and growth rather than on the outmoded belief (implicit or explicit) that a certain number of units alone will be sufficient to produce full human beings (regardless of option or specialty). I would caution you, the BOD, to continue trying your utmost to reflect the feelings of your constituents, for without their support your efforts will be more masturbatory than fruitful. (A major complaint against Joe, which almost resulted in his recall, was that he did what he thought was good for Tech, regardless of the attitudes of his constituents.) Good luck with your proposals and keep on truckin'. (I also hope that Ed Schroeder continues supporting this cause with his fine articles.)

Not speaking for my house, but only for myself, I'm disappointed in the members of Ricketts who burned a roomful of paper in the Blacker courtyard Monday morning. I may just be getting old and crotchety, but I think it would have been far more reasonable to have kept the noise, commotion, fire, smoke and mess within Ricketts rather than inflicting them on another house. Bonfires and similar activities are fun for some people, but I feel that more consideration should be given to the fact that for others they are unwanted nuisances and hassles. This is not an issue worth debating for weeks in the Tech, but simply a request for thinking about things such as this more in terms of the

A Reply To Dr. Fay

Dear Editors:

I feel that Dr. Fay's letter of last week, in defense of freshman humanities, calls for an answer. Apparently Dr. Fay justifies the continued existence of a freshman humanities distinction on the basis that there used to be more requirements, that such courses are prerequisites for upper-level humanities courses at Caltech, and that such courses teach one how to write prose. The first two reasons may be dismissed as no reasons at all; let us consider the third reason.

No doubt some Techers, at least, do not write well. Many Techers do not enjoy writing. Dr. Fay's intentions to force-feed such Techers might at first glance seem relatively innocuous, but on second thought, you realize that his argument claims:

- 1) Techers are not interested or concerned enough about writing to take the trouble to learn how to do so on their own, but they must be made to do so.
- 2) Freshman Humanities will teach them how to do so.
- 3) Upper level Humanities classes (in fact, any other class) will not do so.
- 4) A 'common technique' and 4,000 words of prose written per term for three terms of FH will do
- I believe that all of these points are challengeable, at the least, and perhaps demonstrably wrong.
- I do not mean to put down the Humanities instructors at Caltech. I have had the privilege of taking courses with many of them, and have great respect and

Continued on Page Three

Honor Spirit than in just their fun value.

Thank you for letting me communicate these two feelings to others in our community.

Jim FuhrmanBlacker House

Are These Reforms Necessary?

Dear Editors:

With all the noble causes regarding academic organization here at Caltech flashing about, it seems that little mention has been made of the advantages to be lost and the difficulties engendered by some of the changes proposed. A primary example, which came to print in the Tech last week, was the abolition of all options. The motivation given was that Techers are quite capable of deciding their entire curriculum themselves and should therefore have no restrictions placed upon them as to either requirements for graduation or for specific courses to be studied. While admitting to the decision-making powers of at least most - Techers, I find that a complete abolition of options, particularly without at least "strongly-recommended" courses, would most likely lead to the production of holders of bachelor's degrees who were dabblers in many trades, but masters in none. To be sure, a few of us would come out unscathed, but the fact is that the greatest part of college undergraduates have little or no idea what they really want to do with their education, much less with their lives. I was told

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The CALIFORNIA Tech

Thursday, May 11, 1972
Volume LXXIII Number 28

Published weekly except during vacation and examination periods by the Associated Students of the California Institute of Technology, Incorporated. The opinions expressed in all articles herein are strictly those of the author and do not necessarily reflect those of earther the editors or the newspaper

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Business Manager: Marvin Mandelbaum. Circulation Manager: Rob Olshan.

The California Tech Publication Offices: 115 Winnett Center 105-51, California Institute of Technology, 1201 East California Boulevard, Pasadena, California 91109. Telephone: (213) 795-6841, extension 2154. Printed by News-Type Service, 125 South Maryland Avenue, Glendale, California. Represented for national advertising purposes by National Educational Advertising Service, Inc. Second class postage paid at Pasadena, California.

 Subscriptions
 \$1.50 per term

 \$4.00 per year

 Life Subscription
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Academic Reforms

Continued from Page Two sometime during the great blur of freshman orientation that about 60% of the entering freshmen intend to study physics, 30% mathematics, and only 10% other subjects. A cursory glance at the percentages of upperclassmen in other options will serve to demonstrate that some change of mind takes place during those first six months. Although I came here with the intention of becoming a math major and wound up doing so, I am nonetheless thankful for the Institute policy of requiring freshmen to take a course from each of several different options - in fact I find myself wishing that a few more requirements, say of one term each, had existed in a few other science options - which gave me the opportunity to experience other branches of science in such a way that I had some basis for choice other than preconceived, i.e. high school notions of what constituted physics, mathematics, chemistry, biology, etc. I would rather see an improvement in the operations of the Independent Studies Program, making it easier to get into and providing the follower of this program with a great deal more information on opportunities available at Caltech. More power to those who can strike out on their own with some plan in mind, but don't increase the confusion for those of us who feel the need for some direction amidst the great universe of possibilities that bedazzle the man without an established

My second objection concerns rumors of plans to change Tech to the 4-1-4 system: a fourmonth semester followed by a month for arranging summer jobs, research, and the rest of the year, then another four-month semester. Aware of its success at other colleges, I nevertheless would regret the loss of two mid-year vacations without homework. I'm sure you recall those term papers you were supposed to do over the Christmas holidays or the Easter holidays (or winter and spring if you prefer) in high school (if you had none, I can only envy you); some of you must have friends in semester-oriented colleges who face similar plights from time to time. I have always been greatly enamored of the quarter system and the possibilities of taking three subjects preferences. a year, rather than two, in any one weekly time slot. It's not all

that difficult for breaking points to be found in our three-term subjects so that the course can be divided out according to the continuity available - although this is not always done (e.g. Ph 2) - so it hardly necessitates a revamping of the calendar to enable instructors to cover a subject more slowly or completely or whatever other terms you wish to employ. That is instead a question of content, not of chronology, and the existence of two completely free vacations, as opposed to one such a year, had advantages that far outshine the placement of the latter vacation smack in the middle of the year. It would seem far more advantageous to encourage other colleger to convert to the quarter system so that conversion of units for transfers in and out of Tech could be made easier and so that palling around with friends from other colleges wouldn't necessitate flicking in a week while theywere on vacation (or vice versa).

In short, the system here at Tech is not nearly as bad as it has been made out to be. We are one of the few schools in the country with - in practice - an unlimited number of classes permissable to any one student in a term; a school that packs so much information into a few short years as to make some other colleges seem standstill by comparison (if you don't like it, what are you doing here?); a college so nearly totally scienceoriented as to facilitate collaboration of many diverse fields, a situation from which there can only be something gained; a school with a faculty ready to listen to our demands and arguments to a sufficient extent that we can even have them met, although frequently in at least temporary compromise. It is this last point upon which I wish to implore all Caltech students to cast off their apathy for just a moment, just long enough to think about what they and others can do to this school to make it the best or worst possible. Only if changes are based on a truly majority opinion can they be expected to serve the majority of Techers to their best interests. Only if Techers exercise their powers of mature decision can the leaders of our student organizations be expected to lobby with those interests in mind. It's all a question of what you want: if you don't say yes or no, anyone can act without considering your

> -Jim Vibber Blacker House



A Neighbor Looks At Caltech

Dear Editor:

Have you seen yesterday's [April 19's] Wall Street Journal? If it is any sample of the reliability of their general research, it demonstrates itself to be inferior to the average fortune cookie as a purveyor of background material.

But Mr. Ehrich is dead right about one or two things: MIT is, in general, quite unattractive; Caltech's buildings have justly been given critical acclaim. MIT certainly does (or did in my day) spend far more time on fraternities than squares with their alleged preoccupation with upward social mobility and dedication to the humanities, implies. Caltech never did so.

(I used "squares" in the archaic sense: "to be consistent with "

And did any student ever perish in your pajamarinos or your mud fights, despite the fact that a lot of your men appear able to go out for various recreational sports on your own, without having the college "offer" them as part of the curriculum?

"Getting by with less than the usual minimum course requirements" is exactly why some very able high school students whom I once taught, preferred Caltech when they had a chance to go to MIT. Such classmates are not very stimulating, my boys said.

I remember Dr. Bell, and many of your "older, experienced" profs. Their amazing versatility, and eagerness to cooperate in all sorts of interdisciplinary activities made them a community asset, as well as a blessing to their students. It may be a coincidence, but of four

Continued on Page Four

Fay Reply

continued from Page Two admiration for their abilities and teaching performances. I do not, however, believe that there is anything magical about FH courses which ordains these courses as sole teachers of the Prose Way. Demonstrably, 12,000 words do not a writer make. (If they did, *The California Tech* staff would have several Pulitzer Prizes by now.)

Cannot other Humanities courses serve equally well for critiques of essays, if not better? Such learning is more a function of instructor, subject matter and time alloted than of course number. There is no automatic way to learn how to write; even professors do not always turn out perfect prose, as Dr. Fay's



from the cerebrum

by Etaoin Schroedlu

In certain schools of fish, the physical direction taken by the school in swimming is determined by a complex behavioral interaction; an individual will hesitantly diverge his path from that of the school, carefully watching the reaction of the school to his behavior. The firmer the individual's action and the more hesitant the reaction of the school, the more the school's path is altered, and vice versa. In On Aggression, Konrad Lorenz notes that an operation performed on individual fish can remove the behavioral hesitancy pattern, and single fish swimming purposefully (if unintelligently) off can drag an entire school behind them.

Readers of this passage cannot help but think of political, anthropomorphic parallels. It would appear that a beautiful horrible example, as the phrase goes, is about to be played out in America, not to mention Viet Nam, Russia, and probably China.

Chickenman

Our Fearless Leader, President Richard Nixon, has decided to solve the Viet Nam problem by mining the North Vietnamese port of Hai Phong and bombing out the rail links between North Viet Nam and China. Presumably, this action is one more in a semi-infinitely long list of actions which were going to 'turn the tide' in Viet Nam, and no particular notice has been given to the fact that not one of the other actions ever did 'turn the tide.' What is different about this one?

Militarily speaking, very little. It is axiomatic in the military strategy of the North Vietnamese that supplies for major campaigns are obtained and stored before the action is commenced. The President may be certain that no new supplies will reach the offensive from Hai Phong, but he could have been certain of that anyway.

Presumably this latest move is also designed to damage the North Vietnamese economy. It may well do so, although the North need not be very dependent on outside supply sources. (They are far more independent than the South, for instance.)

letter indicates. What purpose do the FH courses serve that other humanities courses cannot?

-Edward A. Schroeder Winnett

If the strategy is designed to scare the guerrillas into going away and leaving us alone, that isn't likely to work either. The bombing of the North, from 1965 on, has been intent upon destroying the capacity and the will to fight of the North, and we may see today how effective that strategy has been. Anyway, Nixon has repeated the mistake of assuming that Ha Noi controls the offensive absolutely. In some part, they do, but guerrilla units which have adequate supplies need pay no attention to anyone else, and the now-decimated but still significant indigenous South Vietnamese guerrillas never have paid attention to Ha Noi.

Russian Roulette

On the other hand, international complications from the President's latest brainstorm are likely to be different from previous situations, and this is not good (to put it mildly). The Russians have already indicated that they are not pleased with our actions, no matter how much the President asks for their 'understanding.' At this writing, mine-sweepers were being sent to Hai Phong. What sort of confrontation this will produce is not clear, but it cannot be a comforting subject for contemplation. In the words of the immortal sage, what the hell is going on here?

When I was in Viet Nam last fall, it was obvious to all, American lifers, American draftees, and the South Vietnamese, that 'Vietnamization' was not going to work, but even I had not realized the exact extent of the problems. (When the recent Northern offensive started, I figured that it was a very bad military strategy because the North could not hope to accomplish much against American firepower in any sort of pitched battle. Apparently I was wrong, too.) If anything was made perfectly clear by the recent war activity in Viet Nam, it is that the American interventionist policies are completely discredited once again. The American people want out of this war. God knows what is in President Nixon's mind (this move can't even help him get re-elected). Perhaps it is time that we all make it clear what is in our minds. The South Vietnamese are no longer the concern in Washington (if they ever were); this war is being fought now only for President Nixon. Is he worth it?

IT'S NOT TOO LATE!

ENROLLMENT IN AIR FORCE ROTC CONTINUES THROUGH MAY 15 SEE DEPT. of AEROSPACE STUDIES NEXT TO COFFEEHOUSE OR PHONE 2391 FOR DETAILS ON SCHOLARSHIPS, ETC.

News Briefs

Rev. Troy Perry To Address Gay Discussion Group

The Reverend Troy Perry, pastor of the Metropolitan Community Church of Los Angeles, will be the guest speaker at next Thursday's meeting of the Caltech Gay Discussion Group.

He will talk about the principles behind the Metropolitan Community Church, the persecution of homosexuals be established churches in the past and today, his role in the gay rights movement, and his views on what remains to be accomplished in the field of gay rights.

Rev. Perry is regarded as one of the most influential and effective leaders in the fight for gay rights and recognition, and he has received national attention through articles in Newsweek (October 12, 1970, pp. 107), Time (July 13, 1970, pp. 46), Life (Dec. 31, 1971, pp. 70), and The New York Times (Feb. 15, 1970, pp. 58).

All interested members of the Caltech Community and their guests are urged to attend. The meeting will be held in the Y lounge and will start promptly at 7:20 p.m.

Yessiree! It's Another "Y" Folk Concert

The "Y" continues its Friday afternoon Olive Walk Concert Series this Friday with "Two for

Draft Changes

Continued from Page One

draft board, and when time permits, after he has completed the registration card the registrant will be issued his Registration Certificate along with his Notice of Classification stating that he has been placed administratively into a holding classification, Class 1-H. Practically all new registrants will remain in Class 1-H until after their lottery drawing which will be held early inthe calendar year in which they reach age 19. Those who receive low lottery numbers will then be considered for classification out of Class 1-H. Young men become draft eligible, provided they do not receive a deferment or exemption, during the calendar year in which they reach age 20.

the Foad" - another folk act from the Ice House. This promises to be some of the best live talent to visit Caltech within the last several years. You'll be pissed if you miss it, so bring your lunch out to the Olive Walk at 12:15 and start your weekend. The admission is free as always. Coming up: Chuck Mitchell (next week) and Kenny Croes (June 2).

Chem 6: Dabney Style

Neighbor

. if not both.

Next Monday (May 15) at 4:00 p.m. in 153 Noyes, Chem 6 takes a chemical look at stimulants and depressants. Messrs. Jim Ellern, Vince Miukowski, and

Continued from Page Three

decades of Caltech students, I am

unable to think of one who does

not play at least one musical

instrument passably, or have a

good amateur's knowledge of art

Journal would not be worth-

while; nobody makes me read it.

For Caltech to compete with

MIT on scores that will not be

released is unworthy of people

who do, indeed excell in math.

to you. A university is, or is not, a distinctive contributor to the

quality of life within that

community. In some colleges

boorish and irresponsible conduct

has revived town-and-gown an-

imosities. In some cities, selfish

and near-sighted citizens have

refused to face their responsibili-

ties to a university in their midst.

(I met some of these whilst

getting out the vote which

permitted Caltech to acquire the

park across the street, on Califor-

well as Caltech has done in being

a valuable member of the

community, its methods should

be studied and emulated. It

should be preserved from unjust

and untrue criticism, lest people

far off should decide that its

standards were not worthy of

note, by all bent upon self-

improvement.

Whenever a university does as

That, sir, is why I am writing

Arguing with the Wall Street

Jim Soares will describe synthesis and physiological effects of some of the more common "uppers and downers."

How Many Fingers Hath the Computer?

A special seminar in digital computer music will be given by Dr. John Chowning next Thursday (May 18) in 74 Jorgensen at 4:00 p.m. Complex timbre synthesis by means of frequency modulation, and simulation of moving sound sources, will be illustrated by quadrophonic tapes of two of the Stanford professor of music's compositions. For further information call P. A. Lagerstrom, ext. 1556.

down MIT's ugly buildings, and supply new ones of the architectural excellence of, say, Beckman Auditorium. Nor would it do much good to ask which school did more for clean air, in actual cases, not bull sessions. I am not trying to prove that Caltech is better than MIT; I merely hope that by airing some of these facts, you may encourage MIT to become as good as

Caltech. With sincere regards from your neighbor for over half-acentury,

- Virginia Sydnor Pavelko 1385 N. Chester Avenue Pasadena

[Ed. Note - Mrs. Pavelko's letter was unfortunately prevented from appearing last week due to a filing error, for which we wish to apologize. We recommend that anyone connected with Caltech read the MIT article (which is rather short), as it contains some fascinating new ideas (e.g., freshman pass-fail, science-humanities double majors, an independent studies program). Copies of the WSJ are on file on the fifth floor of Millikan.

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ASCIT of Hugg

Nominations Still Open

by Jim Hugg **ASCIT Secretary**

Nominations are still open for Sophomore, Junior, and Senior class President, Vice President, Secretary, and Treasurer and ASCIT Social Chairman (may be a team). Nominations may be made by signing the list on Louise Hood's office door before 6 p.m. Tuesday, 16 May. Elections will be held Thursday, 18

The BOD approved the Secretary's report on proposed By-Laws amendments needed to update the ASCIT By-Laws. Most changes delete references to nonexistant student body cards, the Honor Point Committee, and the Athletic Council.

When "men" were Men

Other changes simply reorder lists of officers to match the BOD power structure or make the Activities Chairman responsible for the movie program instead of the ll a.m. assembly hour. One change replaces the word "men" with "corporation members" in recognition of the existence of atypical bodies in

our once all-male institution.

The proposed By-Laws changes will appear on the ballot of the 18 May election for approval of the corporation. The BOD will act on the Secretary's proposed Resolutions amendments at its next meeting.

Totem Dumped Upon

A string of written charges against the Totem was presented to the BOD. The indictments ranged from editorial negligence to personal bias as a means of selecting poetry for the literary magazine. The editor will be called before the BOD to answer these charges. Concerned parties should attend the 4 p.m. meeting to be held Tuesday in Winnett Lounge.

The BOD is accepting applications for summer employment. ASCIT will hire one undergrad to work 40 hours per week for ten weeks to research the proposed contract system and ABC-No Credit grading plans. The job will pay between \$2 and \$2.50 per hour. Make written application to Jim Hugg (Page).



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Now Showing: A New Kind of Marriage"

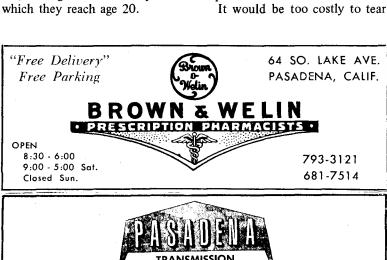
Starting Tuesday, May 16: "Diary of a Bed"

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Our New Dean...

James Morgan Speaks

[Ed. Note - Dr. James J. Morgan, professor of environmental engineering science at Caltech, was appointed dean of students last week, to be effective at the end of this June. Below The California Tech presents an interview with Dr. Morgan.

Tech: What do you think are the primary responsibilities of the Dean of Students?

Dr. Morgan: I haven't figured out yet exactly what the responsibilities of the Dean are. Such things depend on the personal style and the time available of the various people holding the jobs. In general, I would say that the Dean has to handle cases brought to him by individual students who need help - problem-solving for individuals, in matters related to academic life, from the Standards and Honors Committee to students looking for better academic opportunities. The interaction with individuals is very important.

The Dean also helps to facilitate communication between students and faculty, providing a channel for information about the curriculum, for instance. This can be very helpful to students, who may not always know the orthodox channels for trying to get something done, or how to go about it. The Dean can give directions. I think that it's also important that such communication not always be formal; the Dean is in a good position to pass on informal messages.

Tech: What do you think of the academic reform ideas currently being discussed by ASCIT and in the Tech?

Dr. Morgan: I think that the ASCIT ideas are interesting ideas. I support the general idea of academic reforms - I don't want anyone to regard me as conservative on that issue, but I do feel that a great deal of research into the effects of these proposals are

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needed. For instance, we don't want to close off choices for some students while we're opening them for others. Some students do very well in the current Caltech system, and might not want to see it changed. I'm rather dubious about any scheme which would push the formal-informal balance too far in one direction.

Tech: I don't think the current proposals would do that. Dr. Morgan: Probably not. I

have a great sympathy for most of what Jim Hugg said in the Tech about improving the undergraduate program. There is a great deal that can be done, and I'm available to help work out the details.

I'm in favor of the Independent Studies Program. I really don't know how the program is working out at the moment, but I'm sure that improvements could be made. There is no operational need for conservatism on curricular matters at Caltech. But then, Caltech has a remarkable degree of self-government, both at the student and at the faculty levels, and that's one of the prices you pay for self-government.

We would want to review and alter the ISP program each year, I think, in order to find out what is happening and devise a better program. If there are unnecessary constraints in the way of the program, something can probably be done about them. On the other hand, the students who want more freedom and flexibility should remember that faculty also want more freedom and flexibility and may not be willing to spend a great deal more time working with students on ISP-oriented projects. ISP takes up a lot of time for both the students and faculty concerned. There will have to be some bargaining between the two groups on that.

Tech: We understand that there are faculty members around who would be willing to spend more time working individually with students than they do now, so we haven't reached the limit yet.

What do you think are the major problems of the undergraduate educational system here?

Dr. Morgan: I don't have any doctrinaire position on educational matters; I'm not an educator. Overall, we've traditionally made efforts to make the undergraduate program more like the graduate program. Perhaps we should be trying to make the freshman and sophomore years more like the junior and senior years. I'll be listening to students' suggestions on all

Tech: What's the status of the Dean's Cultural Fund, and how do you envision using it?

Dr. Morgan: I don't know just how much money I'll have, but I will have some. I plan to continue the financial rebates to undergrads for cultural activities, and I would like to support various other special activities, on the interface of science and literature, or art, for instance.

Tech: Any last words to the undergrads?

Dr. Morgan: Yes, I want to make it clear that I want to talk to students, now, next year, any time. I want to hear the students' ideas.

Genetics Conference

Continued from Page One

Tunney, urging that consideration of these issues begin now, if it is to be in time.

People Racism

After an Athenaeum lunch, the conference audience had the opportunity to question Tunney and Sinsheimer on their statements of the morning and related issues. Concern was expressed on various issues, including the possibility of a 'people race' of positive eugenic controls in order to keep up with such activities by foreign nations, and the problems of regulation and clandestine evasion. After more than an hour of this, the audience got to question each other as small

Sign Up Now?

Next Term's New Courses

by GDC/PMN/EAS

Pre-registration time has rolled again, and while the surviving trolls and snakes fill out infinite cards, 101 Dabney holds its breath.

Once all the packets are returned to the Registrar's Office, the mammoth job of devising a working schedule while minimizing conflicts becomes the order of the day. This responsibility falls on one of the office's secretaries. She must juggle the student's available hours with those of the instructor, and sometimes - as in the case of the large lecture halls with the availability of the room.

While some classes are traditionally taught at certain hours, the addition of new courses and disappearance of others prevent a complete standardization. When a class has more than one section, the secretary must also assign students to each one.

This summer, a computer program developed by MIT will be used to draw up a schedule, to check its feasibility as a replacement for the current method.

First term next year will feature a variety of new courses, a new option, and revamped astronomy requirements. Here are some brief descriptions:

The primary new offerings in

discussion groups were formed which considered a few sample scenarios of problems related to genetic engineering which may arise in the next decade or two. Then the group re-gathered in the Athenaeum to hear a random selection of wrap-ups of the discussions by individuals representing diverse activities.

Many conference participants expressed a hope that more such programs will be forthcoming in the future. The conference sponsor, the Caltech Y, and its loyal helpers, from Biology and elsewhere, are reportedly scheming and plotting succession programs.

the HSS fields will be political in

Formation and Legislative Process, covers decision-making in various legislative bodies, particularly the American Congress, and the impact of this system on Federal policies. PS 132, Strategy in Politics, will survey game theory, 'examined on a nontechnical level,' and says it has a prerequisite of Dr. Plott's PS 131 (Ec 131), which is being offered currently. More material on the PS courses is not available at this time, since the instructors are not yet in residence at Caltech. Also scheduled for beyond first term next year are PS 150, Political Stability and PS 151,

course, Ec 112, Modern Schools of Economic Thought; it has existed in the catalogue since prehistoric times but is finally being offered by Dr. Montgomery. The subject matter will include historic ways of looking at economic ideas and will include readings from Ricard. Marx, and Marshall, among others.

Ay trolls will have a vastlyrevised framework of courses if the current proposal is approved by the Faculty

The material formerly covered by Ay 112 abc and Ay 113 will be subdivided into six one-term courses. Required will be Ay 20, Basic Astronomy and the Galaxy (3-2-6, first), with lab exercises, Ay 101 The Physics of Stars (3-2-6, second), stellar atmospheres and interiors, and Ay 102 Plasma Astrophysics and the Interstellar Medium (3-0-6, third) an introduction to fluid mechanics, MHD, and more.

For graduation, two of the following will be required: Ay 21

(3-0-6, second) an accurately titled course, Ay 22 Solar System Astronomy (3-0-6, third), physical characteristics of the sun and planets, Ay 100 Astronomical Measurements and



nature. A spectrum of three new PS courses will be offered first term next year, by a pair of new instructors in poly sci. PS 120, American Electoral Behavior and Party Strategy, will cover citizen voting behavior and various views on the resultant political party strategies. PS 121, Congressional Policy

Justice and Obligation. There is also a 'new' econ

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Galaxies and Radio Sources Continued on Page Six FOREIGN STUDENTS SHIPPING SPECIALISTS OF

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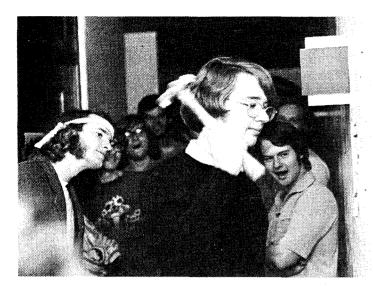
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by Gavin Claypool

An (alleged) notorious bike thief returned to campus late Sunday night after a week-long vacation in Redding, Calif., only to find that a section of the Cherry Alley wall had been repainted during his absence. Not only that, but the wall was where his room (allegedly) used

After being enountered by this reporter at about 1:00 a.m., Charles Conner's first words were "Gosh, that's really neat" or something like that. Soon afterward, he began figuring out which side of the alley light his door was on. (Turned out to be both.) Meanwhile, random Scurves began to congregate, curious as to whom the stranger was.

Following some muttered ("Why me?") and screamed ("Leave me alone!") exclamations and a videotaped interview in the lounge, work began on the wall in earnest. About two o'clock a hole almost a foot in diameter had appeared, along with Campus Security. The two officers representing Caltech's finest took the erstwhile roomstack-breaker outside, where he was shortly released on his own recognizance.

A major breakthrough occurred as Conner broke off the

plaster covering the transom, which had been conveniently left open. This allowed Conner his first look at the 500 cu. ft. of computer paper, cards, etc., that was then occupying his room.

When attempts to open the door proved fruitless, Conner finally entered the room through the transom. Discovering that paper thrown out into the alley had a nasty habit of returning, he walked (swam?) for the window. Two minutes later he arrived there, and a flood of paper threatened to fill the Blacker courtyard. It was disposed of in the football-victory manner, leaving Conner wishing he'd stayed north.

New Courses

Continued from Page Five

Instruments (3-3-6, first), photo-, radio-, and other types of observations and their equipment, and Ay 110 Senior Seminar in Astrophysics (2-0-4, first), a current interest seminar for Ay seniors. A senior research thesis will be encouraged, but not required.

Ay 2, Ay 10, and Ay 15 will cease to exist, but a seminar for soph Ay trolls is scheduled as Ay 30 Current Trends in Astronomy

Continued on Page Seven

ron taylor Hundreds from car size (Black shag) to the From 199 793-3244 largest reom LOOKING SQ YARD ALL COLORS Plush Shag, Hi-Lo FOR Tweed Shag, Heavy ALL SIZES Nylon, Commercial. FINANCING NO CARPET? WE HANDLE ALL PROBLEM. UP TO 36 MONTHS THE LEADING BRANDS. We challenge the lowest price you have ment and Home owners carpet in stock on carpet and draperies



Upper left: Suspected bike thief attempts to pound his way to freedom. (He was later charged with breaking and entering.) Lower left: After gaining entry, the suspect is captured in a moment of relaxation. Right: Randy Lewis and Bob Durst admire their handiwork. Photos by Steve Grandi.

Students for Ecological Action Support Proposition 9

In 1971 a man and his wife, both lawyers, suspended their practice for one year to author the most far-reaching ecology initiative ever placed before the voter. The act is controversial and complicated. Its outcome will be decided on the June 6th ballot. The following is a roster of questions and answers about Proposition 9, with the intention of explaining exactly what the Proposition can accomplish.

What will Proposition 9 do to control pollution?

First, it will place a five year moritorium on the use of nuclear power plants, giving the companies involved time to perfect

R.

792–2211

(Corner Green & Wilson)

the reactors. Is this necessary?

Almost all nuclear power plants depend on the ECCS (Emergency Core Cooling System), which is designed to pump water into the nuclear reactor if an accident occurs, keep the reactor from overheating, melting and releasing its lethal radioactivity. There has never been a full-scale test of the ECCS. In 1971 one partial test was run and it failed. There are no plans to test the ECCS until 1975.

What else will Prop. 9 do? Secondly, it will ban the use of pesticides in the state, and Continued on Page Eight

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Atlantis Lecture Brings Out Little Old Ladies

by Peter Beckman

The Little Old Ladies were out in force Monday night when Dr. Nicholas W. Tschoegl, Professor of Chemical Engineering, gave a lecture on "Atlantis" in Beckman Auditorium. Not only did the crowd completely fill Beckman (standing room only), they overflowed Ramo, where the audio portion of the program was piped, so that over a hundred persons had to be turned away.

Unfortunately for those who were only interested in the mystical aspects of the legendary continent, Dr. Tschoegl confined himself primarily to the new evidence which explains the Atlantian legand in terms of destruction of the Minoan civilization on Crete and the surrounding islands by a volcanic eruption about 1450 B.C.

Dubious Dialogue

Although over 2000 books have been written about Atlantis over the years, they all descend from a single source - Plato's

Continued on Page Seven

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Hunter Mead Memorial

Caltech Band Surprises Reviewer

heard.

more."

The Caltech Concert Band presented its annual Hunter Mead Memorial Concert in Ramo Auditorium Saturday night. The band is directed by John C. Deichman, and Roger Greenberg and Les Thorton are the assistant directors. Mr. Deichman's informal yet precise presentation, characteristic both of the music itself and his introductions to songs and people, provided an enjoyable evening for me and for many friends.

Having never heard the Caltech band before, I was quite surprised that the concert did not prove true any of the many negative comments I had heard

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Needs Bods

by Gavin Claypool

Student help in construction, publicity, and performance is needed by Spectrum Production 2. Bertolt Brecht's Puntila and His Hired Man, to be presented in October.

Especially needed are students with student shop and/or carpentry experience. Five or six will be hired for construction of sets in mid-September.

Auditioning for parts will take place in September. Students wishing to publicize the production on campus and in the community are also welcomed.

Puntila (Herr Puntila und sein Knecht Matti in the original German) is considered one of Brecht's best plays, although Spectrum's producer, Dr. Oscar Mandel, believes that this will be its first performance in the United States. Written in 1940, it is the story of a Finnish landowner who is nice and decent while drunk, but very nasty when he sobers up. Spectrum will be using a translation by Gerhard Nellhaus.

construction side should contact Mike Steinberger in Lloyd House as soon as possible.

about the band. In fact, it was just the opposite - one of the best band concerts I have ever

The highlight of the concert

came just before intermission; it

was the last two movements of

Moussurgsky's Pictures at an

Exhibition. The Hut of Baba

Yaga is one of the most

impressive band pieces I've heard.

Also in the first half were a

clarinet quartet, a sax quartet,

and a trombone trio featuring

some of Caltech's best musicians.

Caltech Jazz Band performing a

medley of Sammy Nestico songs.

The Hunter Mead Award for

outstanding musicianship and in-

terest was given to Bob Panek,

the band president. The concert

ended with selections from Sweet

Charity and Deichman's remark,

"We'd love to give you another

one, but we don't know any

Ay-- Continued from Page Six

(2-0-1, second). Its purpose is

similar to this year's attempt to

introduce students to the faculty

Claude Anderson

The second half featured the

Anyone interested in the

Atlantis ?!....

and their research.

Continued from Page Six

Dialogues. The story had supposedly been handed down orally in his family from his ancestor, Solon, who had learned it in Egypt while avoiding certain political turmoils at home.

According to the legend, Atlantis had been a land in the Atlantic Ocean. The realm was divided into circular rings of land and water, and an immense canal had been cut through the land rings to allow ship passage into the inner seas. The land had had a very high civilization, but the people had become corrupted and warred on many other nations. Finally, in a gigantic cataclysm the civilization was destroyed and the island sank below the seas.

Even in Plato's own day, this story was not believed; Aristotle thought it was a complete fabrication that Plato had created in order to support his philosophy. But over the years, many others have accepted the story, and against all evidence about geologic makeup of the Atlantic basin, have attempted to prove the existence of the sunken continent.

Aegean vs. Atlantic

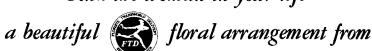
Today's evidence indicates the source of the legend was in the Aegean, not the Atlantic. About 1450 B.C. the island of Thera, a natural volcanic ring, was the scene of a gigantic volcanic explosion five times greater than that of Krakatoa. The island was one of the seats of Minoan culture, and the cataclysm was so great that it destroyed other centers on Crete, 60 miles to the south.

In many respects, the Minoan culture was similar to that of Plato's Atlanteans, and it is now believed that this is the story's source. One of the most striking examples is recorded on murals found in Crete. They show games where gymnasts used live bulls like side horses; this corresponds closely to Plato's account of the Atlantean kings who had to place golden rings on the horns of wild bulls.

One theory now holds that Thera was the capital of Minoan civilization, but whether this is true or not can only be discovered by further archeological research and excavation.

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Proposition 9:

Confusion Or Salvation?

by Phil Neches

Proposition 9 contains 23 sections, all of which make strong changes in existing laws concerning air and water pollution. The question seems to be that, while everybody agrees that pollution should be stopped, many people disagree on how to best do so. Proposition 9 contains several items which many serious environmentalists feel are ill-advised, counterproductive, badly-framed, or plainly injurious. But the measure also contains many positive measures which definitely should be en-

Unfortunately, the voters will not be able to vote on Proposition 9 section by section, but only as a whole. This article will explore some features of the measure, with an eve as to whether the allegedly bad parts outweigh the allegedly good parts sufficiently to justify defeating or enacting the bill.

Get the Lead

The first controversial section is Section 2, which sets maximums on the amount of lead in gasoline. By 1976, only traces of lead would be permitted. While recent model cars will not be affected, since they have been built to run on unleaded gas, there is some question as to whether older cars will be able to run as cleanly on unleaded gas. The problem does not appear as great as some others raised by Proposition 9, since the number of pre-1970 cars still on the road decreases daily.

However, the section makes no provision for the possibility that older cars might actually pollute more with unleaded gas. The purpose of lead in gasoline is to prevent knocking and consequent fouling and damage to the engine. While lower compression ratios can achieve the same effect, even in 1976 many pre-1970 cars with high compression engines will still be in use. If such engines are operated on unleaded gas, some would start knocking and fouling, and would thus emit more pollutants than before, as well as presenting considerable expense and nuisance to their owners.

Out of Your Gas

While getting all defective cars off the road is a laudible goal, this section does not do that. While a strong law is needed in this field, this section may err, in being too strong and not sufficiently selective.

Section 6 raises a difficulty which is more administrative than technological, but nonetheless bears looking into. Under the provisions of this section, an officer of the air pollution control district may order a plant or a business or a part of a plant or business to shut down if certain air quality standards are broken. This is well and good.

A Deep Subject

What is not so well and good are some of the provisions for shutting down offenders. For one thing, the order may be verbal. This would make any disputed order rather difficult to resolve. Secondly, the order may be delivered to "the owner, operator, manager, or anyone in charge of the operation, maintenance, or utilization of the business, factory, plant, or single source of air contaminants.' (Italics mine). This means that the APCD officer can tell the janitor to shut down the plant!

It is not so much that the idea lacks merit, but that it is too much open to abuse. It does not seem too restrictive that a shut-down order be written, or that it be delivered to the management of the offender.

More and More

But this is not the only defect of the section. First, the activity shut down may not be resumed except on written permission from the APCD officer. If the order to stop may be verbal, this could lead to such abuses as the officer threatening not to give permission for the activity to be resumed unless certain extra-legal conditions were met. I mean bribery.

Secondly, the section forbids injunctions against issuance of such orders absolutely. While the purpose is obviously to prevent large corporations from going to court to prevent the APCD from enforcing the law against them, it also removes any remedy against improper action by the APCD. I think it unwise to trust any agency of the government that

And More and More

Also, the individual officer is not personally liable for damage caused by him as a result of issuing a shut-down order. Policemen are not exempted from ordinary civil and criminal penalties for what they do in the line of duty, so why should APCD officers?

Finally, the section states, "No person has the right to a hearing to determine the propriety of a shut down order." While this may seem rather shocking at first, it is likely that this particular provision would not hold up under Constitutional scrutiny, so that its effects in determining how one should vote on the rest of the measure thus shrink somewhat.

Well, Well, Well

Another provision of some notoriety forbids issuance of any new offshore drilling leases or the renewal of existing ones. This provision has drawn out the ire (and money) of the oil companies. But the matter to be considered is whether or not the people think that offshore drilling should be stopped, and Continued on Page Eight

Happy Mother's Day Love, Chuck

SPORTS

Kleinsasser Leads Track

Team to Fifth Place Finish

by Bob Kieckhefer

Led by Alan Kleinsasser's victory in the 880-yard run, Tech's trackmen won the threeway battle for fifth place at last Saturday's All-Conference track meet. As expected, Occidental won its nth consecutive SCIAC track title, with Whittier finishing a distant second. Claremont's men did worse than expected, as they barely finished sixth, after beating Tech in their dual meet earlier this spring. The score of the meet was:

Occidental 95 Whittier 64½ Pomona 43½ Redlands 26 Caltech Claremont-Mudd

Haywood Robinson knocked his 100-yard dash time down to 9.8 seconds and placed third, only inches behind the secondplace sprinter. Tech's only other third place went to Charlie Almquist in the 440-yard intermediate hurdles. Gary Stormo was the only Techer to place in the field events, with fifth places in the long jump and triple jump.

Coach La Brucherie was most satisfied with the improvements made by many of his runners at the SCIAC meet. The mile relay team of Greg Hoit, Stormo, Almquist, and Kleinsasser knocked 9.1 seconds off its previous best time and placed fourth. The 440-yard relay team of Stormo, Jeff Hurn, Robinson, and Almquist also lowered its time and finished fifth.

Although he finished only eighth, Greg Griffin knocked 30 seconds off his 3-mile run time, to establish a new frosh record of 15:08.9. Greg Hoit also placed out of the scoring in the 440-yard intermediate hurdles, but his time of 56.4 broke Almquist's old frosh record by 1.3 seconds.

Next on the track schedule is the NAIA District III meet, to be held in Balboa Stadium, San Diego, on May 19 and 20. Kleinsasser, Robinson, Almquist, Hurn, Stormo, and Hoit will represent Tech there. (Hopefully by then they will have sobered up from last Sunday night's party at Jim Black's house rumor has it that nobody on either relay team could have held onto a baton that night, let alone make an exchange without drop-

The varsity tennis team wound up the season in a blaze of glory, defeating Cal State Dominguez Hills and Whittier decisively before losing a close match to Pasadena College.

The team finished above Whittier in the final league standings with a 3-9 record. Overall the team won seven and lost eleven, far better than last year's zot in the win column.

Ken Pischel and Dave Dummit won their first round doubles match from La Verne's No. 1 team in the conference tournament but lost their singles and second round doubles matches.

The Scott Tournament – the final event of the tennis season is now under way with several players given a chance to upset Andy Chow, the defending cham-

The Last Hurrah

Golf ... May 12, NAIA District III Tournament, Soboda Springs, 7:00 a.m.

Track . . . May 19 & 20, NAIA District III Meet, Balboa Stadium, San Diego.

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Baseball Season Over at Last

by Gavin Claypool

That is how the season ends, "not with a bang, but a whimper."

Redlands stopped Caltech for the Beavers' nineteenth and twentieth losses in a row Saturday, 4-0 and 13-0. The team had a 1-24 record, their only win a come-from-behind victory over L.I.F.E. College in early

Walt Smanski went on a tear, going 3-for-3 in the first game and adding a fourth straight single in the nightcap. He totaled eight hits in the last four games at a .667 clip. Tom Howell and Phil Gschwend also singled.

The jayvee tennis team, playing a light schedule, finished with a 2-6 record. Both their victories came against Whittier.

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Golf Team Tops

La Verne, 32-22;

Simmons Places 2nd

The Caltech golf team defeated La Verne 32-22 Monday, to end the 1972 season in fifth with a 4-8 record. Redlands finished on top in the confer-

Jim Simmons had the second best score in the 36-hole conference tournament held last month, a 153 total. The winning score of 149 was the best in the conference for many years.

Roger Goodspeed was selected all-conference for the second year in a row, and was voted the "all-around nice guy" award by the various coaches. His 72 on the Redlands home course was the best by a Techer this year.

The team suffered the handicap of having only five players, and finished with a 5-10 overall record. (Although one player stated, "We didn't need six players to beat La Verne.") The graduation of Goodspeed and Simmons will undoubtably hurt the team (as graduation will almost always, in any sport), but they leave a legacy of four seasons of not being shut out by opponents.

Support Proposition 9

Continued from Page Six

ban the use of leaded gasoline in California.

Doesn't unleaded gas lessen the performance of your car?

Probably, however cars can run on unleaded gas. California is the largest buyer of Detroit cars. With the passage of Prop. 9 Detroit will be forced to improve the engines of their cars.

Aren't pesticides necessary?

Insects are becoming immune to the present pesticides. In effect we must use stronger and stronger pesticides to kill them. Alternative means of killing insects just as effectively are in the making. One recent discovery? Garlic oil!

Moreover, in case of a Malaria epidemic, Prop. 9 allows for the use of pesticides until the disease subsides.

Will Prop. 9 have any other

Yes, it will give more power to the Air Pollution Control boards. As it stands today they are powerless and polluting companies can get as many 'variances' (licenses to pollute) as they need. At times a small fine

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No on 9

Continued from Page Seven existing drilling phased out.

While almost everyone who has any sympathy for the environment at all wants much tighter control on offshore drilling to prevent such disasters as Santa Barbara, it is not clear that stopping the drilling will stop the oil seepage. The area suffers from some natural seepage anyhow: the possibility of a natural disaster triggering an oil spill cannot be precluded (unless the channel is pumped dry, something the oil companies would probably not object to too strongly.) In any event, the issue is important enough to merit separate consideration whether the rest of Proposition 9 is voted up or down.

Nuclear Power

The last of the questionable provisions of Proposition 9 concerns nuclear power plants. Sections 16 and 17 ban construction of nuclear power generating plants for five years after the bill takes effect. This is a rather sledgehammer approach to the problem of siting nuclear plants: it delays the issue.

One would hope that construction of nuclear (or even conventional) power plants will

is levied. With the passage of Prop. 9 companies may only receive one variance for a one year term. After that year, unless they can prove to the board and the courts that they are effectively curbing their emissions, they will be ordered to pay a fine of ¼th their gross income of the previous year every day that they continue to pollute. When the polluting has ended 75% of the fine will be

Secondly, in the case of a smog alert, companies holding a variance will be ordered to shut down until the alert is over.

Are parts of Prop. 9 unconstitutional?

This has yet to be proven. In any case Prop. 9 has an "Item Veto" clause which allows only that part of the bill, which is proven unconstitutional, to be struck. The remainder of the bill will stand as written.

In any case Prop. 9 sounds like it's going to cost a lot of tax dollars.

In 1972 air pollution will cause \$16.1 billion in damages. A clean-up program can reduce the damage 66%. Damage due to water pollution costs \$12.8 bill-



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never be undertaken lightly. However, plans currently being worked out by EQL offer better alternatives to simply not doing anything for five years.

Urgent Issue

The question of power plants cannot be put off for five years while the matter is studied. By 1975, Southern California will face a potential shortage of electrical power; consequently we must plan for it today. In the absence of the alternative of building clean nuclear plants (many specialists rate the possibilities of radiation pollution as far below the inevitable chemical pollution due to conventional plants), the only alternative would be to build more atmosphere-rending coal and fuel oil generating plants.

Developing standards and safeguards for nuclear plants will be far more beneficial than not building them at all.

The Opposition

Much of the opposition to Proposition 9 has come either from large corporations which would have some feathers rather severely clipped by it or from anti-environmentalists factions. Some prominent people have added to the confusion by making extreme statements about potential disasters, financial and otherwise, which could result from its passage.

There may be enough reason to vote against the bill, however, from the strictly rational, proenvironmental standpoint. The environment is precious: to protect it we must be wise and prudent. Rash, overdrawn legislation has no place here.

But the serious environmentalist is still in a quandary about Proposition 9: should the structural objections above cause him to vote against such clearly beneficial measures as tightening conflict of interest laws, banning DDT and related products, instituting an incentive fine system for violations (the violator gets 75% of the fine back if he corrects the situation), and the like? Also consider that if one section of Proposition 9 is struck down, the rest stand.

It's up to you, the concerned

ion. With control we can reduce the cost by 90%. (Study done by National Wildlife Federation. Conservation News. Vol 37, No. 4, Feb. 15, 1972.)