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, techs, nansi­sters, professors and regular people to see and hear the activities.

Dr. Robert Sinheimer of Caltech led off the evening 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 Selective Service System has announced new registration procedures for the draft. Under the new provisions, a registrant must register with a draft board, regardless of where he goes. The draft board serving a registrant's current place of residence will consist of filling out a Registration Card. Additionally, a Registration Questionnaire with him when he registers, such as his birth certificate, Social Security Ac­count Number card, drivers li­sence, school or college activity card, or a credit card.

The new registration proce­dures are designed to make registration more registrant­ oriented and draft board oper­ations more streamlined. Regis­tration will consist of filling out a Registration Card. Additionally, a new Registration Questionnaire must be filled out, although the registrant will be able to fill this out later, even after his 18th birthday. He must register with a draft board, regardless of where he goes. The Selective Service System must be listed. In addition, the draft board will consist of filling out a Registration Card. Additionally, a Registration Questionnaire 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 regis­tran's family over age 16 also must be listed. In addition, the form includes questions inquiring whether the registrant believes he will be a hardship defer­ment, for status as a conscientious objector, for a surviving son exemption, or for other Selective Service deferments and exempt­ions.

Finally, every registrant must list a place of permanent resid­ence, as well as a current mailing address. The draft board will mail a draft notice to the registrant's permanent draft­board, regardless of where he registers.

When he registers at his own choice of the individual instruct­ors. The program will start around 10:00 a.m., with invited outside speakers with particular expertise on the reasons for the President's actions, and the possible results. 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 President Harold Brown to explain the situation, and answer ques­tions. If President Brown is not here, 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 time.

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.

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 registrant 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 li­sence, school or college activity card, or a credit card.

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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 wholly agree that a Caltech education should be one which focuses on educational and personal excitement rather than on the outdated 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 program 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 dissatisfied in the members of Ricketts who burned a roomful of paper in the Blacher 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. Bonfres 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 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 house.

I believe that all of these points are challenging, at the least, and perhaps demonstrably wrong. I do not mean to put down the Humanities instructors at Caltech. I have had the privilege to teach them how to do so. Freshman Humanities will teach them how to do so.

3) Upper level Humanities classes (in fact, any class other) will not do so.

4) A 'common technique' and 4,000 words of prose written per term for three terms of FH will do so.

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FRANKLY SPEAKING

by Phil Frank

Are These Reforms Necessary?

Dear Editors:

With all the noble causes regarding academic organization here at Caltech flaring about, it seems that little mention has been made of the advantages to be engendered by some of the changes proposed. A primary example, which comes to print in the Tech last week, was the abolition of all options. The motivation given was that Tech- ers 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 power of - at least, as I see it - Techers, I find that a complete abolition of options, particularly at least, "strongly-recommended" courses, would most likely lead to the production of holders of bachelor's degrees who were dabbler's in many trades, but masters in none. To be sure, a few, a very few, Techers would seem to be unscathed, but the fact is that the greatest part of college undergraduates are not bothered with the idea what they really want to do with their education, much less with the idea of making a decision for themselves.

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Thursday, May 11, 1972

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ASCT's FRIDAY NIGHT AT THE MOVIE
"Epic battle of the sexists!" - Vincent Casey, N.Y. Times

RICHARD BURTON
G违反EVIJEAR BUDOS
HALL WALLIS PRODUCTION
Anne of the Thousand Days
A UNIVERSAL PICTURE

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

Admission: 50c ASCT members and their guests; $1.00 anyone else

NEXT WEEK: WINNING

"Hey! Isn't that my car that we just burned?"

by Phil Frank

the caltech forum

FRANKLY SPEAKING/BOX 1353/ E. LANCASTER, MICH.
Continued from Page Two

Thursday, May 11, 1972

Academic Reforms

DEPT. OF AEROSPACE

Continued from Page Two
time during the great blur of freshman orientation that about 60% of the entering freshmen intend to study science, physics, mathematics, and only 16% other subjects. A cursory glance at the percentages of upperclassmen in other op- tions will serve to demonstrate that some change of mind takes place during those first six months. Although Tech can afford with the intention of becoming a math major and wound up doing so, I am nonetheless aware of 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 could have chosen 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 operation of the Independent Studies Program, making it easier to get into and providing the following possibilities:

A great deal more information on opportunities available at Tech

More power to those who can strike out on their own with some plan in mind, but don’t insist on having a course taught by someone of us who feel the need for some direction amidst the great universe, that they have no time for the man without an established goal.

My second objection concerns rumors of plans to change Tech to the 4-1-4 system: a four-month semesters 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. At that time of the year, those term papers you were supposed to do over the Christ- mas 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 col·

By Eileen Schroeder

The California Tech

A Neighbor Looks At

California Tech

Dear Editor:

by Eileen Schroeder

In certain schools of fish, the physical direction taken by the school in swimming is deter-

in by a complex behavioral interaction; individual will

heavily diverge his pattern of the school, carefully watch 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 Aggression, Konrad Lorenz notes that an operation per- formed on individual fish can remove the behavioral hesitancy pattern, and single fish swimming purposefully (if unintelligently) can affect an entire school behin

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News Briefs

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 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 has been a national through articles in Newweek (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.

Yessex! It’s Another “Y” Folk Concert

The “Y” continues its Friday afternoon Olive Walk Concert Series this Friday with “Two for the Road” — 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 next week and start your weekend. The admission is free as always.

Coming up: Chuck Mitchell (next week) and Kenny Croft (June 2).

Chern 6: Dehny Style

Next Monday (May 15) at 4:00 p.m. in 153 Noyes, Chern 6 takes a chemical look at stimulants and depressants. Messrs. Jim Ellers, Vince Miskowski, and Paul Lloyd will give a good sign-up.

Neighbor

Continued from Page Three

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.

Arguing with the Wall Street Journal would be not worthwhile; 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, excel in math.

That, sir, is why I am writing 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 animosities. In some cities, selfish and near-sighted citizens have refused to face their responsibilities 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 Californa.)

Whenever a university does as 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.

It would be too costly to tear 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 mention it by airing of these facts, you may encourage MIT to become as good as Caltech.

With sincere regards from your neighbor for over half a century,

Virginia Syndor Pavelko

Continued from Page One

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 Pavelko’s office door before 5 p.m. Tuesday, 16 May. Elections will be held Thursday, 18 May.

The BOD approved the Secretary's report on proposed By-Laws amendments needed to update the ASCIT By-Laws. Most changes delete references to nonexistent 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 II 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 amendment at its next meeting.

Totem Damped 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 undergraduate 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 (Paged).
James Morgan Speaks

by Schroeder
[Ed. Note – Dr. James J. Morgan, professor of management science at Caltech, was appointed dean of students this spring. He is due to take office 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 Honor 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 getting 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 the Tech?
Dr. Morgan: I think that the ASCIT ideas are interesting ideas. I support the general idea of academic reform – I don’t think that anyone to regard me as a conservative on that issue, but I do feel that a great deal of research into the effects of these proposals is needed. For instance, we don’t want to close off choices for students while we’re opening them for others. Some students do very well in the current system, and might not want to see it changed. I’m rather dubious about any scheme that would put 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. Besides, 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 operation 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 this.

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 long as they are not forced to do it.

Dr. Morgan: I don’t think you 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 undergraduate and sophomore more like the junior and senior years. I’ll be listening to students’ suggestions on all this.

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 order of science and literature, or art, for instance.

Tech: Any last words to the conference audience?
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.

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Genetics Conference
Continued from Page One
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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 the future. The audience expressed a hope that more such programs will be forthcoming in the future.

Many conference participants expressed appreciation for the work that such programs will be forthcoming in the future. The conference spon­sors, Drs. Tunney Y. and its loyal helpers, from Biology and else­where, are reportedly shopping and plotting succession programs.

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 the first term next year will likely be 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.

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FOR THE FIRST TIME...

Kagle's annual BEST-OF-THE-YEAR

by B. J. Barret

The California Tech
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We’ve Got Your Number, Conner!

by Gavin Claypool

An (alleged) notorious hikethief 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 to be.

After being encountered 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 his door was on. (Turned out to be both.) Meanwhile, random Scrooges 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 with Campus Security, the two lawyers, suspended their inquiry on Conner, wished him “to stay north.”

New Courses

Continued from Page Five

In 1971 a man and his wife, both lawyers, suspended their practice for one year to authorize the most far-reaching ecology initiative ever placed before the voters. 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 moratorium on the use of nuclear power plants, giving the companies involved time to perfect 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 in 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. (Continued on Page Eight)

Students for Ecological Action

Support Proposition 9

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Upper left: Suspected hike 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.

by Peter Beckman

The Little Old Ladies were out in force Monday night when Dr. Nicholas W. Tschogl, 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. Tschogl confined himself primarily to the new evidence which explains the Atlantean legend 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 several 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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Proposition 9: Confusion Or Salvation?

A Deep Subject
What is not so well and good about Proposition 9 is the general urging of shutting down offenders. For one thing, the order may be verbal, and the penalties meted out under such orders are seldom great enough. A Day without an order, the offender's operation would continue. Secondly, the order may be issued only after a long campaign, and the order may not be in the mail for days. Thirdly, the order may be in the mail for days, and it is very uncertain whether it will be delivered to the offender. The apocalyptic theory is that the order would be delivered to the offender. This is not necessarily true, but it is too much open to abuse.

More and More
Expensive and high-stakes corporations are unlikely to comply with the order. The order is not merely a stopgap measure, but it is also a threat to the health and safety of the public. The order is not an enforcement device, but it is a means of pressuring the corporations to change their ways. The order is not a means of punishing the corporations, but it is a means of forcing them to change their ways. The order is not a means of punishing the corporations, but it is a means of forcing them to change their ways.

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**THE CALIFORNIA TECH**

**Golf Team Tops**

**La Verne, 32-22;**

**Simmons Places 2nd**

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

Jim Simmons had the second best score in the 36-hole confer­ence meeting, with a 79. He ended up overall 2 strokes away from Santa Barbara, it is not clear that stopping the drilling will stop the polluting. The area is being investigated for some natural seepage anywhere; the possibility of a natural disaster in the oil field 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 on or down.

**Nuclear Power**

The last of the questionable provisions of Proposition 9 con­cerns nuclear power plants. Sec­tions 16 & 17 ban construction of nuclear power plants for five years after the bill takes effect. The last, a rather sledgehammer approach to the problem of siting nuclear plants.

One would hope that construc­tion of nuclear (or even conventional) power plants will be delayed. 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 controlling their emissions, they will be ordered to a fine of 'thirty thousand dollars per day every year that they continue to pollute. When the polluting has ended 75% of the fine will be returned.

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

Proposition 9 unconstitu­tion­al?

This has yet to be proven. In any case Prop. 9 sounds like an "Hear Ye" clause which allows only that part of the bill, which is proven unconstitutional, to stand.

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

But the serious environmen­talist is still a quixotic theory about Proposition 9: should the struc­tural objections above cause him to vote against such clearly beneficial measures as tightening control of interest law, banning DDT and related products, insti­ling strict minimum system for violations (the violator gets 75% of the fine, the rest could correct the situation), and the like? Also consider that if one or two provisions of Proposition 9 are struck down, the rest stand.

It's up to you, the concerned citizen, with control we can reduce the cost by 90%. (Study done by National Wildlife Federation. Conservation News Vol 37, No. 4, Feb. 19, 1972.)