And Feynman said, “Let there be quarks. Let there be one round, one square, and one triangular. Let them be connected by strings so that their quantum states might interact except when they are on the land of physics.” Moving gracefully from the mysteries of the universe to the secrets of the soul held by art, Feynman will lecture on Mayan hieroglyphics at the Monday Night Beckman Lecture on May 17.

Massey On Beckman?

by Philip Massey

Monday night saw Dr. Goldreich introduce Dr. Goldstein who talked about Goldstone at the Beckman Lecture: “Refections on Venus.” Dr. Goldstein has been one of the people at the Goldstone instrument who have been engaged these past ten years in mapping planetary features by radar. Venus has received a great deal of this attention because the radar waves are one of the very few Earth-bound waves in determining what the surface of Venus is really like. One of the really big high points of Monday’s lecture was a slide brought by Dr. Goldstein which showed the results of the most recent mapping. These results have not been refined sufficiently for release, but it was obvious at a glance that the mapping confirmed the existence and locations of many very prominent and obvious markings found the year before in a mapping survey. A few surface features of unknown nature but features which give very definite results of radar waves circularly polarized in a direction opposite to that usually returned by the planet (thus indicating they are rough, surface features) for several years. Smaller and less obvious features have been found, and their existence confirmed.

Of course, radar observation of the planets are not an easy thing. Tremendously energetic waves must be sent out, and the receiving instruments must be extremely sensitive. The temperature of the apparatus must be kept low in order to reduce the interference of the return signal by the electric fields produced by heated particles in the receiving station. To accomplish this, the receiving mechanism is kept at 20 millidegrees.

Another problem, that of determining just where a feature is on the planet, presents some difficulties because of the time delay and doppler shifts. Dr. Goldstein concluded his lecture by leaving.

Systems Engineering

Mathematicians Are Useful

by Paul Levin

Dr. Robert E. Machol, this week’s lecturer at the systems engineering seminar series, was presented with a very difficult task. Dr. Machol, coordinator of the series, told him that previous speakers had already covered both the generalities and the specifics, so he could have what was left. (What is next week’s speaker going to do?) Machol, a Professor of Systems at Northwestern University, decided that there was nothing for him to do but to spend the entire time answering questions. He had already received a list of fifteen questions from Dr. Miles, so he began answering some of these; others didn’t interest him at the least. He began his definition of systems engineering by assuming that everyone knew what engineering was. “All that’s left is to define systems.” He finally relented by offering seven characteristics of a system: maso-nado, integrity, all parts possess a common purpose, large, complex, stochastic (posing random inputs), and competitive, but added that none of those requirements in necessary while no proper subset of them is sufficient.

Loop the Loop

The purpose and real value of systems engineering, he felt, was to “keep going around the loop; find inadequacies and make improvements.” Hopefully this process will converge, but if it converges, it implies that each successive iteration will do less improvement. The cost of an iteration will definitely not go down. Hence you stop the process when the expected return no longer justify the work involved. In other words, you don’t optimize the system, you optimize the system and the controllable inputs, no easy task. “When you go out to get a number, you’ve got to be as accurate as you thought.” He advised getting at least one more significant digit that you think you need. He emphasized that computers were a last resort and nothing more; use them only if an analytic solution is impossible or unsatisfactory.

He tried to show that one could save a lot of work by using one’s head a bit. This was driven home when a quick, “one-line” proof of the Pythagorean Theorem and the solution of an integer-only algebra problem. While a mathematician’s rigor is not always required, it can at times prove useful. A Rand Corporation researcher once used the computer to design a balanced diet which would maximize bulk while keeping to a given calorie input. Imagine his dismay when the printout included 2000 quarts of vinegar a day. He had forgotten a major constraint. “Mathematicians are there to find the constraints and to eliminate those things that aren’t constraints...I know this will surprise many of you, but they are useful!”

Next he turned to the contributions of science and the scientific method could make to systems engineering. First, scientists possess healthy skepticism. They realize that “you’ve got to have the ability and desire to become a generalist.” Referring to an onion-skin model, he said that “you can be interested in only three layers-yours and those immediately above and below.” While such specialists do not exist, close approximations do, and these people can make great contributions.

The Complex Systems Engineer

Dr. Machol said that any complex system engineer was an engineer thoroughly vested in his field but conversant with and knowledgeable of other fields. “You have to have the capability and desire to become a six-month expert.” You’ve got to want to become a generalist, too. Referring to an onion-skin model, he said that “you can be interested in only three layers yours and those immediately above and below.” While such specialists do not exist, close approximations do, and these people can make great contributions.

Tech Loans Kip Thorne

Professor Kip S. Thorne of the Institute of Physics, Mathematics, and Astronomy at California Institute of Technology, Pasadena, California will serve as a visiting lecturer at Sacramento City College, Sacramento, California, Thursday, May 6, 1971.

Tech Student Roundup

The California Tech warmly congratulates Ned Hale on the 24th anniversary of the American Association of Physics Teachers and the American Institute of Physics as part of a nationwide program to stimulate interest in physics. The program is now in its fourth year and is supported by the National Science Foundation. Friends of Altadena Uniform Hold Book Sale

Books and magazines of special interest to students will be found at the Friends of the Altadena Library 11th annual book sale on Friday, May 7, from 9 a.m. until dusk, in the parking lot and community room of the Altadena Public Library, 600 E. Mariposa St.

Augmenting a wide selection of fiction, categories in non-fiction include dictionaries: encyclopedias; books on magic; history, science, biography, and literature; and reference periodicals, especially Scientific American and National Geographic magazines.

More than 8000 hardback and paperback books will be offered at bargain prices. Except for items of unusual interest or value, prices will range from ten cents to two dollars.

The Boss’s Boss

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More than 8000 hardback and paperback books will be offered at bargain prices. Except for items of unusual interest or value, prices will range from ten cents to two dollars.
LETTERS? WHAT LETTERS?

The Eighteen Year Old Vote

The problem of the eighteen year old vote was the subject of a small news article that appeared this week. It concerns Vermont, that buttress of the Puritan ethic, where a law has just been enacted that extends the rights and obligations of adulthood to those persons between eighteen and twenty-one. Everyone eighteen or above has all the rights previously reserved for those who had reached the magical age of twenty-one. They may vote, drink, marry without parental consent, formulate (in private), make contracts, etc., but at the same time they are fully liable for their actions. The law will consider them adults in all respects.

Vermont's law represents a very sensible measure from a very sensible state. In comparison it makes the other measures on eighteen year olds appear as what they are—the worst form of condescension. In these cases the vote is thrown to us like a bone to a dog while the rest of the rights and duties of citizenship are withheld.

This is not intended to downgrade voting; it is the most important right and duty of every citizen. But some politicians are using it for their own purposes. They may have the self-righteous cry, "We are aware of youth," but in their eagerness to give away the vote they sidestep the basic issue: "Are eighteen year olds responsible enough to accept the rights and duties of adulthood?" If the answer is "yes" then we deserve all the rights and obligations; if it is "no" then we deserve nothing.

Perhaps this is the reason why so many young people are disillusioned with "the system": it cannot make up its mind as to what we are. It holds out one hand and declares, "you are adults—join us!" while it heartlessly snubs our blood and culture, other, dear to our pleas. Thus, youth views the current Constitutional Amendment as a hollow honor that is only parordy of the philosophy upon which this country was founded.

This situation cannot continue to exist. The nation must realize that we are adults, impatient and headstrong, yes, but not immature adolescents. Every state should follow Vermont's law. The Eighteen Year Old Vote

ThroopBeat

Faculty Board Okays ISP

The Faculty Board gave its blessings to the Independent Studies Program at its marathon meeting this last Monday. Students who wish to go on Independent Studies next term need to submit a written proposal and find three faculty members to be their's advisors for their plan. If you're contemplating ISP, it might be a good idea to check with one of the members of the Independent Studies Committee. (For the benefit of our readers, we hereby repeat the list: Barish (chairman), Anson, Bohm, Blunck, Goldreith, Humphrey, Kriembaul, Levy, Paulsen, Scofield, and W. Wood). In other action, the Faculty Board approved the plans for splitting Physics I and 2 into Feynman and non-Feynman sections. Numerous other courses have also been added and deleted, or suffered number and/or title changes; for full details, scan next year's catalog when it comes out.

ThroopBeat

California Tech

NEXT WEEK

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Does Honor System Apply to Food Service?

Ediors,

Caltech is to be admitted for its own food service and not that of the University system. Evidently, however, there are differences of opinion as to how this will work. All food service and all cafeteria staffs are to be thrown off food service (usually by swiping desert after meals). These students do not wish to be forced to shop for their own food. Perhaps at some meeting we can find out who is responsible for what and can participate in decisions which affect us. Yours sincerely,

John McKay

University of California
**Innovations in Education**

**Teacher Trainer Talks**

by Alex Seita

At Immaculate Heart College, Miss Bonnie Flynn heads the innovative teacher training program designed to create better teachers. Talking about “Teacher Training and Commitment,” she was the fifth speaker in the Institute-Caltech YMCA sponsored course PI 104 (Educational Issues) which meets every Monday night at 7:30 in 25 Baxter. Visitors are welcome.

For the past year at Immaculate Heart College, education majors have found themselves cast into a program featuring much freedom, little structure, and on the job training. Responsible for the success of IHC students in becoming teachers, Miss Flynn was instrumental in changing the old teacher training program. As a response to improving future teachers, the old program shifted from one of pre-determined courses, rigid ideas of a perfect teacher’s behavior, and sparse practice-teaching experience to one where participants determined their own curricula, tried to adopt effective teaching techniques compatible to their personalities, and received as much practice-teaching experience as desired. “We ask students to select their curricula, to find a place in teaching, to think. There is an emphasis on obtaining different kinds of experience—we have students observing dog training schools, police departments, military training methods, and regular public schools—in order that students go through a long time searching for the proper teaching techniques for themselves.” Miss Flynn said that the program “humanizes education.” In other words, it offers students real choices in planning their education as future teachers, in giving them early exposure to the occupation by teaching perhaps two mornings a week in a public school, and in sponsoring encounter sessions where students evaluated each other.

Presently 25% of the student body at IHC goes into teaching. Of the ones in Miss Flynn’s special program (85) approximately half teach in the public schools for a few hours a week. Freshmen at IHC are thus able to determine immediately whether or not teaching is attractive to them. By asking these students to develop self-satisfying concepts of a teacher, they examine reasons for present teaching methods. The great freedom in the IHC special teacher training program lies in its intent to have students become teachers at “their own timing and preparation.”

**Avoid the rush!**

**Flunk Your Physical Now**

by Mark Peterson

Earlier articles explained that you will probably need a physical deferment to avoid the draft. This article will deal with how to find a medical condition which should disqualify you from induction. The army publishes a list of medical conditions which will cause you to be unacceptable for induction. Most draft counselors will have a copy of this list, Army Regulations 4-501, but you are likely to find the list hard to read. Since it is written for examining doctors, it is filled with technical terms which mean little to laymen.

Books

Fortunately several books have been written interpreting AR 40-501, A Doctor’s Guide to the Draft by Forster and IV-F, A Guide to the Draft by Sutler. Both books attempt to explain the medical language in AR 40-501 in lay language. Either book would be very useful for you in trying to see if you might have a medical condition which should cause you to be deferred. Although both books will be useful in finding whether you have medical problems which may get you a physical deferment, you must look exclusively on the advice in those books. Both books contain some inaccuracies with regard to the legal qualifications for deferment. Also, draft regulations change frequently and some previously disqualifying conditions have been removed. In both books has become inaccurate because of such changes. Finally, although both books are overly optimistic. Especially if you take a physical examination in California you are likely to find your physical examination acceptable even if you have a medical condition which should disqualify you. You find out that you have a medical condition which should disqualify you, see a draft counselor or lawyer for help in documenting and presenting your case for physical deferment and for help in上诉ing if your claim is turned down.

Different Standards

You should be aware that the Army regulations contain several different medical standards. Sutler’s and Forster’s books deal with the standards for induction by which most men are judged. However, if you plan on becoming a medical doctor you may be inducted under much more stringent standards made impossible for doctors to fail those looser standards. Similarly, for service men who have completed active duty training, the medical standards which require a discharge are different from those standards you must pass to enlist or be drafted. It’s tougher to get out of the service than to get in.

If you are planning to join a reserve or National Guard unit to avoid the draft, you must pass the same medical standards used for examining men who are ordered for induction. Therefore, if you cannot pass the reserve or guard physical examination you should also fail the draft induction physical. If the reserve unit offers to overlook the medical standards and let you in anyway, turn them down. If you can’t be drafted, why join the reserves?

Don’t Give Up

Finally, if you don’t think you get a medical deferment and neither book helps you find a medical problem to get out, don’t give up. An examination by a doctor familiar with army medical standards may show that you have a disqualifying condition which you did not know about. Draft counselors or lawyers should be able to refer you to such a doctor. Even if the doctor cannot find anything wrong at this time you should not give up. As earlier articles explained, when you are classified IA you should have from one to two years during which you can put off your induction. You should use that time to see doctors and develop a medical history which you can use later to get you out.

If you have any topics which you would like discussed in this paper by a draft lawyer, write to:

Mark A. Peterson
1627 West Washington Blvd.
Venice, California 90291

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The United States government has become so powerful that its domination is no longer in question. The military, the FBI, and other government agencies have merged to create a surveillance system that invades the privacy of every American citizen. The Bureau of Investigation is no longer an independent agency; it is now part of a larger government entity that oversees all forms of communication and data processing.

The response to this invasion of privacy has been primarily negative. The public, including politicians and Civil Liberties groups, have expressed concern about the erosion of individual rights and freedoms. The government's justification for surveilling its citizens has been based on the need to protect national security and prevent terrorist attacks. However, many people feel that this justifies an overreach of power and that the government is violating their rights.

The result of this surveillance is a society where personal information is collected and processed on a continuous basis and held indefinitely until requested. The government has become increasingly obsolete by the time it is needed. The plan was an outgrowth of decisions by some Congressmen that their telephones have been tapped; that surveillance by data processing is no longer to be performed rather than the heartfelt involvement that the work deserves. Even the most important individual, the resident of the United States, is subject to surveillance.

The military, government, or the private sector, need not necessarily question the value of collecting this information to predict the behavior of individuals. Certainly, our democratic principles are in danger when the right to preserve privacy is a right worth fighting for. Our society is indeed complex, requiring the collection and processing of data to function effectively. The right to privacy is a fundamental human right, and its protection is essential to maintaining a free and democratic society.
L.A. Philharmonic

Continued from Page 4
concert which includes Beethoven's Symphony No. 8, Strauss' Till Eulenspiegel's Merry Pranks, and Brahms' Symphony No. 1. Although all three pieces are excellent works, it is a sad commentary on both Zarin Mehta and his opinion of Pasadena audiences that the great orchestral innovator will not present anything different or modern in this concert series. He believes that Pasadena wants the nineteenth century, Beethoven to Strauss. Not even Bach or Stravinsky. Perhaps he knows that he can always depend on Tchaikovsky or Brahms to salvage a lackadaisical concert. But I, for one, wish he'd show us some of the daring and innovation that he's known for.

A.J. Owens

The reviewer, a Caltech student (physics), is former 1st trumpet with the Berkshire Symphony Orchestra and the Vermont State Symphony Orchestra. Not to mention the Caltech band.

Stoneground by Stoneground; Warner Brothers WS 1995.

This album and group are the outgrowth of "The Great Medicine Ball Caravan," a group of 140 people who traveled across the country in 1970. Stoneground has a sound that is a combination of rock and the joy and spirit that came from their free concerts during the 1970 caravan. The music is hard to describe. It sounds a little like the Bee Gees and 'She Even Woke Me Up To Say Goodbye' by Mickey Newbury), and done quite well. I would call this a good R&B album packaged to look like bad rock.

M.F. Horn by Maynard Ferguson; Columbia CL 30466.

This album is either soft jazz or hard Muzak. It includes jazz versions of such songs as "Hey Jude" by Lennon and McCartney, "Papa Was a Rollin' Stone" by Stoneground, plus Sal Valentino, formerly of the Beau Brumelles. Overall, the combination is a good one. The album is worth listening to, and from the group, the sound is probably even better in concert.

White Trash by Edgar Winter; Epic E 30512.

Edgar Winter may be a better musician than brother Johnny. His album is certainly an improvement over what I've heard of Johnny Winter. This album is rock and roll of the type Belaney and Bonnie do, and almost as well. Almost all of the songs on the album were written by Edgar Winter and another member of the group, Jerry LaCroix.

The group, White Trash, consists of Winter, LaCroix and five other musicians. There are at least 17 other people on the album, by actual count. These include Johnny Winter and Rick Derringer on a couple of cuts. White Trash is beginning to rival Delaney and Bonnie's group in size as well as quality and style.

Nick Smith

Warner Brothers Reprise Radio Show Pro 463.

This album is a collection of fair to poor sound effects, very little music, and some of the worst dialog ever recorded. The album was made to promote many of the younger groups of the Warner Brothers family. Some of the groups, one of which is Faces, are really quite good. However, the long and usually obvious dialog which runs between and sometimes during the extremely short cuts, does not allow the listener a fair chance to evaluate the groups. In conclusion I can only say that I have been trying to give the record away.

John Tristano

Continued on Page 7

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It is no longer necessary for unfortunate girls to be ruthlessly exploited for profit by quacks and inept butchers. Now they can have perfectly legal abortions under strict hospital care. The new California Therapeutic Abortion Act provides that all services be performed by physicians in accredited hospitals.

Last year it is estimated some 700,000 illegal abortions were performed in the United States. Almost without exception exorbitant prices were charged, hospital facilities were not available and a complete medical staff was not present to cope with emergencies.

Some of those girls died unnecessarily. Others suffered severe infections. Still others will never again be able to bear a child due to incompetent treatment.

The National Abortion Council for Therapeutic Abortions and Family Planning wants to make sure that all girls receive humane and sanitary treatment. YOU CAN HELP.

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More Record Reviews

**Mary Mary Travers, Warner Bros. 49077**

Here is my song.

For the asking...

Well, it's time to do the old review and there doesn't seem to be anything to say. (So why do it?)

Reason 1: I've never done a record review, I'm not the kind of person who does record reviews, but I haven't quite filled my quota of strange things this week.

Reason 2: Someone ought to do it. Reason 3: It's my record. It's not that there isn't a lot that can probably be said about the record. There are a lot of things said in the songs, a lot of different moods and feelings, a lot of different things.

The Mary of Peter, Paul, and, has borrowed a few things from their previous album ("The Song Is Love," "The First Time I Ever Saw Your Face"), changed them, and somehow they came out better. Some of the songs are from other people's works: Paul Simon's "Song," Peter Clark's "On the Path of Glory."

Some of them are beautiful; some somehow they came out better. Some of the songs are from other people's works: Paul Simon's "Song," Peter Clark's "On the Path of Glory."

Some of the pieces are less well known, but very worth hearing: "Rhymes and Reasons," and "Indian Sunset" in particular. Summit Sessions

**Dave Brubeck, Columbia C-30572**

The list of people who play in this album is unbelievable.

Thelonius Monk, Leonard Bernstein (et al.), Peter, Paul & Mary, Charlie Mingus, Carmen McRae, Louis Armstrong, Brubeck's sons, Quartet, and others. The album splits pretty evenly into two parts—half the tracks Dave and the Quartet chuck chords for others (the best of these is "Trainin' Blues" with McRae); for the remainder Dave is in his customary role of leader (or at least equal). The track with Monk (a duet, the "C Jam Blues"), and "Koto Song" stand out here.

Brubeck aficionados should find the album interesting since 1) This is Brubeck's latest album (although composed of old recordings), and 2) Brubeck has never appeared in supporting roles quite like he does here. People who know little of Brubeck can relax and enjoy the incredibly varied cuts (including two Indian numbers, one a real Raga with Palghat Raga, one of India's best known percussionists).

**Bruce Montgomery**

Mad Slide Slim and the Blue Horizon

James Taylor WB 2561

55.95

Truly beautiful. Another really big album for James Taylor. "You've Got a Friend" is in my opinion Taylor's best song since "Fire and Rain." Every song has a wonderful feeling of love and peace that is so rare in our society today. This feeling is even further enhanced by the lovely voice of Joni Mitchell singing the background parts with Taylor.

**John Tritano**

The Beavers almost upset Whittier in the second game of the doubleheader last Saturday. It almost seemed as history was repeating itself: as Whittier was warming up the pitcher that Tech chippedered their only league victory. It almost happened in the eighth inning. Tech had the bases full. John Ellis drew a walk forcing in the first run. Then four-year veteran Mike Arenson fooled off several pitches before being issued a walk and scoring another run. Tom Howell hit into a force play, with the third and final run scoring. Whittier managed to score two runs in the top of the ninth bringing the final score to 7-3. Whittier had shut out Tech in the first game.


Scott Joplin was probably the best and most popular black composer of his day. Joshua Rifkin is an excellent pianist. The combination produces music that is pure fun. A new form of ragtime. If you like ragtime, buy the album. If not, don't.

**Nick Smith**

Go all the way...

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... to Budweiser.

**WHEN YOU SAY**

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YOU'VE SAID IT ALL!

**More About Communal Living**

Continued from Page 2 which has been invested in real estate around Caltech. The Director, Mr. Kemnwick Jacobson, was therefore put in the unfortunate position of having to judge an experimental housing program as a financial investment to Caltech. Also, the group of individuals who hoped to participate in this experiment regarded the idea of Institute management as the kiss of death. The compromise solution was to have the Institute rent the house to the faculty couple involved, and then wash its hands of the affair, provided the rent continued to come in.

We hope other groups will try their own living experiences close to Caltech. The area around a great university should be an exciting place to live, and we feel the Institute is not taking advantage of the educational opportunities that experimental housing might provide.

In order to rent a Caltech-owned house at present, a group needs an individual or couple who are willing to sign a rental agreement with Caltech. This individual or couple need not be on the faculty. Our experience has been that having one person responsible for the rest does not create any particular inequalities among the members. In the day-to-day running of things, what counts is who feels strongest about each issue.

To sum up, we like our living arrangement, and we recommend it to members of the Caltech community.

Sincerely,

Marc Arenson
Emily Champagne
Andy Ingersoll
Sarah Ingersoll
Judie Sharram
Petie Sokoloff
and friends
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Classified Ads

Amphetamine diet pills are often abused. Amphetamines are discussed on pages 17 through 19 of the Federal source book: "Answers to the most frequently asked questions about drug abuse."

For your free copy send in the coupon below.

The Borodin Quartet comprising Rostislav Dubinsky (first violin), Yaroslav Alexander (second violin), Valentin Berlinsky (cello), and Dmitri Shebalin (viola) will perform works by Shostakovich, Prokofiev, and Beethoven, in the final concert of the current Coleman Chamber Music series to be presented in Caltech's Beckman Auditorium on Sunday, May 9, at 3:30 p.m. Tickets are one sale now at the Caltech Ticket Office and at all Ticketron, Mutual and Liberty agencies.